Timpali, (CSP) fre HOD sir, 27-09-22 cst Deptaitment, . Annamachanya inglitute of technology-And sciences Timpali. Respected sir We are - the batch of community Service project (batch-2 cse.2) . We are willing to conduct the survey on flourieuffure. So please give us permission to conduct the survey. Location: Rangampeta. - Thanking you. Kayalchanuvu Yours Faithfully 1) s. bouchib. 20ADIA0562. G. Libith Sai. 20ARIA0568 M. Lakebmillara Prasad SIAKJA0514 as bound offend resign Dept. of Computer Science Annamacnarya institute of thnology & Sciences, Tirupali-5

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mornity Service paroject. Please, Grant the permission to go to the outside as prescribed so they out to go to the outside as prescribed so they out to go to the outside as prescribed so

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yourb-forth-fully G-obotah.

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The closs Trocker,

Tirupothi.

Respeshed sir!

Tigeor 111.01

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sub: permission to up for the community service project i.e. 86-07-2002 to 28-08-2002 -He the botch inumbered I are going for our community service project - please provide the permission. to go to the outside as prescribe as per our location.

Thomking you sir,

Battle mynobers: 120441405621 John thos by, 16AKING 666, 100/11/10 5 A 4 ,

SESOUNDES , 20/11/16 5 921

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2011/105 91, 201.11.

your's raith tuly, an k. krishna. (Team leader).

Dept. of Computer Science of English Mology & Sciences, Trupalis

D

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PERMISSION LETTER

26-09-2022, Tirupati.

FROM: 3rd CSE, SECTION-3, CSP BATCH-4;

TO:
Ramana Reddy sir,
HOD, CSE, AITS,
Oupati.

(

Dept. of Computer Sciences Trupation

Respected sir,

We are from CSE-3, CSP Batch-4. Sir as part of Community Service Project we want your permission to visit the community to complete our field work as it is a part of our Community Service Project. My batch absence will not affect the ongoing work in the college. Sir please grant attendance for these days from 27-09-2022 to 28-09-2022.

Thanking you sir,

Your's Obediently, M.SAIRAM (21AK5A0524), J. DIWAKAR (21AK5A0536), SK GOUSE BASHA (21AK5A0525).

C. Lecouthy

on, Reenschor vol

26-09-2022, Tirupati.

\$10 CSE,
31 CSE,
31 CSE,
32 CTION-3,
35 Batch-6;

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lamana Reddy Sir, HOD, CSE, AITS, Tirupati.

Respected Sir,

Dest. of Computer sciences, Trupall's

we are from CSE-3, CSP Batch-G Sir as part of Community Service project we want your permission to Visit the Community to complete our field Work as it is a pari

My Batch absence will not affect the ongoing work in the college sir. please grant affect the for these days from 26-2022 to 28-09-2022

Thanking you Sir.

J-51varaw 26/09/22 Your's Obediently,
Sulaiman (20AKIA05E3)
Tharun (20AKIA05E9)
Sumanth (20AKIA05E4)
Vijay (20AKIA05F7)

76-09-2022,

p. Batch 8, by year, CSE

nama Reddy sir, D, CSE, AITS irupati, Bar. 8

Dept. of Complete Sciences Trippelin

5.

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Respected six,

we are from CSE-3 CSP-batch-8, we want permission to 90 for field work to complete the project. My batch absence will not affect the project the project that the project the project

Yours Obediently
G. viray Kumar (2145540532)
S. viswanadh (2145540533)

Signature of HODsiry

Tirupathi, 08-12-2023.

Foum:

CSE-1,

Batch - 1,

A.1. T.S,

Tionpathi.

6

The Respected HUD,

Department of CSE,

A.T.S,

Tionpathi.

Respected Six,

Bound

kle, The students of CSE-1 belonging to the Batch - 1 of community service project. on regarding with the share - 2 of CSP we have to go for the community on 1-12-2022. As our topic is "Teaching and Tutoring Ideas" se have to go for the community 1.e. School. kle thought go for the Z.p. High school in Karkambadi. please grant permission to go for the community and complete our phase-2 sp successfully.

Thanking you six

Yours Faithfully

G. Bhoomika - SIAKTAOSOH

V. Gnanika - 201110531

K. Jayanth 1 - 20141110550

P. Bhagyasoi - 20AKIA0507

M. Aliranmayee - 20AKIA0544

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8-12-22

Tirupathi

From

csp Batch - 3

III CSE - 1

A.I.T.s Tirupali

To

The quide

M.r. Athinarayan

A.I.T.S Tirupathi

Respected sir,

E-1 to Complete we the students of

CSP project phase - II . we have to go outside for Completing our Survey. So please grant us permission to go out.

Thanking you

Yours Obediently

Batch n.o-3

Batch Members:

20AK1A0504 - P.Akhil

21AKSAUSOI - Arjun.s

21Ak5A0502 - Bhanu.T

21AK5A0505 - chandra

21AksA0506 - Chandra Sekhar

21AKSA0507 - Oastagiri

21AKSA0508 - Dhanush

21AKSA0509 - Harshith

1 .- .- 1 hik

Permission Letter

08-12-2022,

FROM:

CSE-3.

3rd year,

CSP Batch-1

TO:

Ramana Reddy Sir, HOD, CSE, AITS, Tîrupati

Respected Sir,

20 Cr E-3

DERI OF COMPUTE THE RESTRICTION OF STREET

we are from CSE-3, CSP Batch-I. Sir

OS a part of Community Service project, we need

your permission to visit the schools of Community to

complete our guidance for the students. My batch

absence will not affect the ongoing work in the college.

Sir, Please grant us attendance on oq-12-2022.

Thanking you sir,

And homis there to our the project for our to our the project for our that the project for our t

Jours Obadicatly,

Kusteertikhilhandunkatus

Si Sai Ganesh-Doaklaos CS/

M. Saivenkat Ganesh-Doaklaos C8/

Ki ya swanth-Doakla OSGH

Liyujandhar-Doaklaos G5

D. Reddy Prosenth-Diaksaos 23

PERMISSION LETTER

08-12-2022, Tirupati.

FROM: 3rd CSE, SECTION-3', CSP BATCH-4; 80 C1 4-3

TO: Camana Reddy sir, HOD, CSE, AITS, Tirupati.

0

Respected sir,

We are from CSE-3, CSP Batch-4. Sir as part of Community Service Project we want your permission to visit the community to complete our field work as it is a part of our Community Service Project. My batch absence will not affect the ongoing work in the college. Sir please grant attendance on 09-12-2022.

Thanking you sir,

Your's Obediently, M.SAIRAM (21AK5A0524), J. DIWAKAR (21AK5A0536), SK GOUSE BASHA (21AK5A0525).

C 12/22

THE REGISTER BEFORE THE BUTTER OF STREET OF ST

Program Book

Community Service Project

Water Facilities and Drinking Water Availability

By

RUKHAIAH 20AK1A05C2 COMPUTER SCIENCE & ENGINEERING SECTION-3

Dert. of Computer Science a Engles

AP STATE COUNCIL OF HIGHER EDUCATION

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Venkatapuram, Remounts, Lirupati 517520.

(AN AUTONOMOUS INSTITUTION)



COMMUNITY SERVICE PROJECT REPORT

On

Water Facilities and Drinking Water Availability

By

RUKHAIAH (20AK1A05C2)

Department of COMPUTER SCIENCE & ENGINEERING (2020-2024)

Under the Supervision of Ms. J. SivaRani, MTech Assistant Professor Dept. Of CSE Geol of Computer Sciences Little His

Program Book for Community Service Project

Name of the Student: Rukhaiah

Name of the College: Annamacharya Institute of Technology and Sciences

Registration Number: 20AK1A05C2

Period of CSP: III - I Semester

Name & Address of the Community/Habitation: Ramapuram Community,
Srikalahasti.



CERTIFICATE

This is to certify that the community project report titled "Water Facilities and Drinking Water availability" Submitted to "Computer Science and Engineering, Annamacharya Institute of Technology and Sciences, Tirupati" is a bonafide record of work done under my supervision.

Rukhaiah	20AK1A05C2
P. Sasikala	20AK1A05D5
MK. Sreya	20AK1A05E0
N. Sulaiman	20AK1A05E3
E. Sumanth	20AK1A05E4
P. Tejaswi	20AK1A05E6
K. Tharun Sai Reddy	20AK1A05E9
J S Vijay	20AK1A05F7
V. Yasaswini	20AK1A05G2

Name of the Guide:

Ms. J. SivaRani, MTech Assistant Professor Computer Science and Engineering Mr. B Ramana Reddy, Mr. B Ramana Reddy, Mr. B Romana Reddy, Mr. B Ramana Reddy, Mr. B

Instructions to Students for Community Service Project

Please read the detailed Guidelines on Community Service Project hosted on the website of AP State Council of Higher Education https://apsche.ap.gov.in

Link: https://apschc.ap.gov.in/Pdf/Guidelines%20for%20the%20OJT%20Internship%20Community%20Service%20Project.pdf

- 1. It is mandatory for all the students to complete 2 months (180 hours) of Community Service Project as a part of the 10 months mandatory internship/on the job training.
- 2. Consider yourself as a committed volunteer in the community, you work with.
- Every student should identify the village/community/habitation for Community
 Service Project (CSP) in consultation with the College Principal/the authorized
 person nominated by the principal.
- Report to the community/habitation as per the schedule given by the College. You
 must make your own arrangements of transportation to reach the
 community/habitation.
- 5. You will be assigned with a Faculty Guide from your College. He/She will be creating a WhatsApp group with your fellow volunteers. Post your daily activity done and/or any difficulty you encounter during the programme.
- 6. You should maintain punctuality in attending the CSP. Daily attendance is compulsory.
- 7. You are expected to learn about the community/habitation and their problems.
- 8. Know the leaders and the officials of the community/habitation.
- 9. While in project, always wear your College Identity Card
- 10. If your college has a prescribed dress as uniform, wear the uniform daily.
- 11. Identify at least five learning objectives in consultation with your Faculty Guide.

 These learning objectives can address:
 - Information about the community, including the realities and problems of the society.
 - · Need for creating awareness on socially relevant aspects/programs.
 - · Acquiring specific Life Skills.

Dept. of Computer Science & Engg.

Annamacnarya Institute of

Annamacnarya Sciences. Tirupati-51

Shoology & Sciences. 5 | Page

- Learning areas of application of knowledge and technologies related to your discipline.
- Identifying developmental needs of the community/habitation.
- 12. Practice professional communication skills with team members, and with the leaders and officials of the community. This includes expressing thoughts and ideas effectively through oral, written, and non-verbal communication, and utilizing listening skills.
- 13. Be regular in filling up your Program Book. It shall be filled up in your own handwriting. Add additional sheets wherever necessary.
- 14. At the end of Community Service Project, you shall be evaluated by the person incharge of the community/habitation to whom you report to.
- 15. There shall also be evaluation at the end of the community service by the Faculty Guide and the Principal.
- 16. Do not indulge in any political activities.
- 17. Ensure that you do not cause any disturbance to the inhabitants or households during your interaction or collection of data.
- 18. Be cordial but not too intimate with the persons you come across during your service activities.
- 19. You should understand that during this activity, you are the ambassador of your college, and your behaviour during the community service programme is of utmost importance.
- 20. If you are involved in any discipline related issues, you will be withdrawn from the programme immediately and disciplinary action shall be initiated.
- 21. Do not forget to keep up your family pride and prestige of your college.
- 22. Remember that you are rendering valuable service to the society and your role in the community development will become part of the history of the community.

Dept. of Computer Science a Engly
Annamacnarya Institute of
Annology & Sciences, Figure 21-51

Community Service Project Report

Submitted in accordance with the requirement for the degree of

Name of the College: Annamacharya Institute of Technology and Sciences

Department: Computer Science and Engineering

Name of the Faculty Guide: Ms. J. SivaRani

Duration of the CSP: III - I Semester

Name of the Student: Rukhaiah

Programme of Study: Bachelor of Technology

Year of Study: III year

Register Number: 20AK1A05C2

Date of Submission:

HEAD
Dept. of Computer Science a Engs
Annamacharya Institute of
Innology & Spiences, Tirunati-5

Student's Declaration

I. Rukhaiah, a student of Bachelor of Technology Program, Reg. No 20AK1A05C2 of the Department of Computer Science and Engineering, Annamacharya Institute of Technology and Sciences College do hereby declare that I have completed the mandatory community service in III – I semester at Ramapuram Community Srikalahasti, under the Faculty Guideship of Ms.J.SivaRani, MTECH Department of Computer Science and Engineering in Annamacharya Institute of Technology and Sciences College.

(Signature and Date)

Endorsements

Faculty Guide

Head of the Department

Principal

Dept. of Computer Science a Engly
Annamacharya Institute of
Annamacharya Institute of
annology & Sciences, Tirupati-s
a g e

Certificate from Official of the Community

Ward Education & Data
Processing Secretary
Secretaria No. 7
Korcomitta Carchivalayan
Snikalahasti Municipality

Authorized Signatory with Date and Seal

HEAD

Dept. of Computer Science a Engy

Annamacharya Institute of

Smootogy & Sciences, Tipupati-51

ACKNOWLEDGEMENTS

The satisfaction that accompanies the successful completion of the task would be put incomplete without the mention of the people who made it possible, whose constant guidance and encouragements crown all the efforts with success.

We avail this opportunity to express our deep sense of gratitude and heartly thanks to Mr. C. GANGI REDDY, Hon'ble Secretary of AITS-Tirupati, for providing congenial atmosphere and encouragement.

We show gratitude to **Dr. C. NADHAMUNI REDDY**, **Principal** for having provided all the facilities and support.

We would like to thank MR. B. RAMANA REDDY, MTech, PhD, Associate Professor & Head of the Department, Computer Science and Engineering for encouraging at various levels of our project.

We would like to thank AP STATE COUNCIL OF HIGHER EDUCATION (APSCHE) for initiating COMMUNITY SERVICE PROJECT in the curriculum that exposed students to the hardships and working of society practically.

We would like to thank our project guide Ms. J. SivaRani Mam, MTech for her valuable time and continued assistance for the successful completion of the community service project. We would also like to express gratitude to Mrs. Sailaja, MTech coordinator of Community Service Project of Annamacharya Institute of Technology and Sciences, Tirupati for facilitating this project and providing her guidance throughout the duration of the project.

We would like to express our sincere thanks towards D.L.DilliPriya Mam, Ward education data processing secretary, who devoted their time and knowledge in the implementation of awareness program for their community people in regarding our community service project. We are thankful to Ramapuram Community for their support and for spending their valuable time. We place highest regards to our Parents, Friends and Well-wishers who helped a lot in making the report of this project.

Dept. of Computer Spingare tings Dept. of Computer Spingare tings innology & Sciences, Trupati-5

ABSTRACT

 Our community service project title is "Water Facilities and Drinking water availability". Our main motive is to check the water availability in ramapuram community.

 Most urban and municipal areas people are provided water supply through centralized water mechanism.

 The lack of clean water is a major risk factor for poor health, sanitation and it has major health impact on rural communities.

Safe drinking water is fundamental to health, survival, growth and development

 This study is based on data collection through surveys, group discussion and other relevant authorities.

 We organize seminars that educate people on topics like saving water, safe drinking water and health hazards.

 This study will make an enquiry about the accessibility and coverage of drinking water and explore the water security aspect in the community.

 The data will be collected on the availability of adequate safe drinking water from the community people

If there was any problem in availability of drinking water for community people, we
take steps towards in solving the problem by consulting higher authorities which helps
the community people to enrich the drinking facilities.

Batch No: 6

Location: Sri Kalahasti (Ramapuram)

HEAD
Deput of Computer Science & Eng.
Deput name and a science of three of

Plan of action

- > First, we are planning to visit the office in Tirupati then we collect the information about drinking water availability and facilities.
- After that we are going to visit the Ramapuram Dam near Sri Kalahasti and we will check out the water distribution to various rural and urban areas.
- > The next day we collect the data from office in Sri Kalahasti about water distribution.
- ➤ We are planning to visit the community people; we will do survey regarding water availability and facilities in that area.
- > In this survey we are going to check whether the community people are getting safe drinking water daily or not.
- ➤ We also trace out the problems of the community people. If we find any problem, we try to solve it by consulting the higher authorities.
- > At last, we are going to create an awareness about safe drinking water and health hazards among the community people.

Batch No: 6

Location: Sri Kalahasti (Ramapuram)

HEAD

Dept: of Computer Science Chass.

Annamacharya Institute of Mindegy & Sciences, Tirupati-5)

From

AIRDS Students

CSP Batch-1

AITS

Tioupati

10

The HOD SIX

CSE (AIRDS) Department

AITS

Tixupati

subject: permission for asp project

respected six,

It is to inform you that the College officials has permitted to go to

· fieldwork to complete CSP project (phase-I).

so, we request you to allow these subjects

to go to freed work and complete our CSP.

20AKIA3031- V. Prastanth:

20AKIA3033-C.N. Rahu

20AKIA3035-S. Robith

20AKIA3044 - D.Sornivasulu

Location - RIV Kodux Thank You

Your's sincerely

Project Name- Agriculature

1.3.4-ED FILE 2

Tixupati

AIDS 26/07/22

Dopt. of Computer Science & City Annamacharya Institute of thrology & Sciences, Tirupali-51

17 rapathi; 26/09/22

From: CSP Batch 2 SK-Solmon;

AIEDS:

AITS;

To:

The Hod / bruide;

AITS;

Subt- brot the fernession to Community Project From 26-9-22 to 28-9-22.

Respected Sir, Our Batch Number is 2.

From A16 DS 2nd year. Our Batch is going for Community field project from 26-9-22 to 28-9-22. So community field project from 26-9-22 to 28-9-22. So we request you Sir. To allow us for the Community we request you Sir. To allow us for the Community bield project filled "idea for Community Come & safely Toesends in Location: Actually. Thorking you Sir:

Hod Signoture:

Cruide Signature 1-

Le le se

Jours Truly; SK. Lalman. Batch Members!— 21AK SA 3001 S. Abhishek 21AK SA 3005 SK. Salman. 21AH SA 3002 chaifeign

Dept. of Computer Science a Engg Annamacharya Institute of hnology & Sciences, Tirubati-5

PERMISSION LETTER

26/09/22 Tirupati

from

AL-DS Studients

Batch-3

AITS

Tirapoti

TO

The H.O.D Sir

AI-DS Department

ZTIA

Tirupati

subject: permission for csp project regarding soleas for health and well being!

req - reg -

Respected sir,

This is to inform you that we are students of AI-DS Dept. we request you to permit us to move to the Heldwork to complete our CSP Project regarding Health and well being". Expected days to complete our project is 3 days starting from 26/09/22 to 28/09/22.50, we request to allow these students to 90 to field work at RAHANUJULA."

20AKIA3017-M. Karthik 20AKIA3045-K. Suryateja

20AKIA3038- A. SOI NOTAYONA

20AKIA3009 - K. Dinesh

unia amoralu

HEAD

Dept. of Computer Science a Engg.
Annamacnarya Institute of thrology & Sciences, Timpati-5

PERMISSION LETTER

26/9/22 Tirupathi

From.

Al-DS Dept CSP Batch-+ AlTS Tirupathi

To

The HOD sin

D173

Trupath

Subi-Permission for CP Project. Somey (Nuhition)

- 40/ - 40/-

Respected Sir,

It is to inform you that the college officials has pointed to go to field work to complete CEP Project (Phay-I). So we request you to allow these students to go to field work you to allow these students to go to field work you was complete our CSP, Kindly provide Altendence for them you mambors 20AKIA3003 - K. Boonson

20AKIA3001 - J. Abhishaki 20AKIA3007 - K. Dhanush & Ab 20AKIA30034 - K. Rouiteja /

Thankyou

plantaged Rusp 8 AL-12 A20/9/22

- via

Dept. of Computer Science a Engg Annamacnarya Institute of thnology & Sciences Tirunatics from
Al-Ds Dept
Csp Batch-5
AITS
Tirupathi

6

The Hod sir AIDS dept. AITS Timpathi

Sub: permission for csp project survey.

(Helpthe environment and fight climate changes)

Respected SIT,

It is to inform you that the coll

officials has permitted to go to field work

you to complete CSP (phase-I). So we reques

you to allow these students to go to field wo

to complete our CSP. Location - Anasapalle

20AKIA3042 - Siva Keshava reddy

2 OAKIA 3046 - Swampp

20AKIA3015 - Vamsi Vardhan reddy

LOAKIA3050 - Dinesh kumar

20 AK 1A3012 - Chanesh

20AK 1A3014 - Harsha

your obediently

Thanking you

1/26/9/22

Dept. of Computer Science a Eligy.

Annamacnarya Institute of thnology & Sciences. Tirubali-51

<u>Permission</u> <u>Lelter</u>

26/9/22, Tirapati.

From
AlfDs Dept,
Csp Babch-6,
AlTs,
Tirupalin

The HOD sir,

AID Dept,

AITS,

Trupati.

Sub:- permission for csp project.

Respected sir,

It is inform you that the collect officials has permitted to go to field work to complete csp project (phase-I). So we request you to allow these students to go the field work and complete our csp project expenses and complete our csp project expenses.

20AKIA3027 - P. Noveen 20AKIA3010 - M. Dinesh Kumar 20AKIA3004 - S. Chandra Sekhar

20AKIA3024 - M. Mounith. 20AKIA3011 - C. Dushyanth

Yours faithfully AIDS students.

(csp batch-6).

Location: venketapuram
Title: community cleanling
and improvement.

HEAD
Dept. of Computer Science - Eags
Annamacharya Institute of the shoology & Sciences, Tirupati-5

From,
AI-DS Dept,
CSP Batch-7,
AITS,
Tirupathi

_ To

The HOD Sir,
AIDS Dept,
AITS,
Tirupathi.

Sub: Permission for csp project, Survey (Animal Husbandry)

Respected Sir,

It is to inform you that the College officials has permitted to go to field with the to complete csp project (Phase-I). So we request you to allow the students to go to field wak & Complete our csp. in the LOCAtion "Karakambadi".

20AKIA3051 - P. Venkata Ganesh 20AKIA3043 - Ch. SivaRama krishna 20AKIA3039 - C. Sai Savath Reddy 29AKSA3003 - G. KH aleel Basha 21AKSA3008 - B. Vameinath

Yours Respectively,

- Ro

Dept. of Computer Science a Engg.
Annamacnarya Institute of

Program Book

Community Service Project

FARMING AND AGRICULTURE
By
D SREENIVASULU
20AK1A3044
ARTIFICAL INTELLIGENCE & ENGINEERING

AP STATE COUNCIL OF HIGHER EDUCATION

namacnarya institute of

thnology & Sciences, Tirupati-51

ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES

Venkatapuram, Renigunta, Tirupati - 517520. (AN AUTONOMOUS INSTITUTION)



COMMUNITY SERVICE PROJECT REPORT On

FARMING AND AGRICULTURE

By

D Sreenivasulu (20AK1A3044)

Department of: ARTIFICAL INTELLIGENCE (2020-24)

lence a Eligg. Annamacnarya institute of thnology & Sciences, Tirupati-5

Under the Supervision of Ms. K Susmitha, M.Tech., Assistant Professor

Program Book for Community Service Project

Name of the Student

: D Sreenivasulu

Name of the College

: Annamacharya Institute of Technology and Sciences

Registration Number

: 20AK1A3044

Period of CSP

: III - I Semester

Address of the Community: Settgunta, Settigunta Mandal

8

HEAD

Dept. of Computer Science a Engg

Annamacnarya Institute of
thnology & Sciences, Tirupati-51

CERTIFICATE

This is to certify that the community project report titled "FARMING AND AGRICULTURE" Submitted to "Artificial Intelligence and Data Science", Annamacharya Institute of Technology and Sciences, Tirupati" is a bonafide record of work done under my supervision.

T NEELIMA	20AK1A3029
V PRASANTH	20AK1A3031
C N RAHUL	20AK1A3033
S ROHITH	20AK1A3035
P SAI EASHA REDDY	20AK1A3037
D SREENIVASULU	20AK1A3044
A SWETHA	20AK1A3048
K THANUJA	20AK1A3049
P VENKATA SAI JEEVANA	20AK1A3052

Dept. of Computer Science & Engg.
Annamacnarya Institute of
hnology & Sciences, Firupati-5:

Name of the Guide:

Ms. K Susmitha, M.Tech.,

Assistant Professor

Computer Science and Engineering

Head of the Department

Mr. Dr. K Navaz, M.Tech., Ph.D.,

Associate Professor & HOD

Artificial Intelligence

Instructions to Students for Community Service Project

Please read the detailed Guidelines on Community Service Project hosted on the website of AP State Council of Higher Education https://apsche.ap.gov.in

Link: https://apsche.ap.gov.in/Pdf/Guidelines%20for%20the%20OJT%20Internship%20Community%20Service%20Project.pdf

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- 2. Consider yourself as a committed volunteer in the community, you work with.
- Every student should identify the village/community/habitation for Community
 Service Project (CSP) in consultation with the College Principal/the authorized person
 nominated by the principal.
- Report to the community/habitation as per the schedule given by the College. You
 must make your own arrangements of transportation to reach the
 community/habitation.
- 5. You will be assigned with a Faculty Guide from your College. He/She will be creating a WhatsApp group with your fellow volunteers. Post your daily activity done and/or any difficulty you encounter during the programme.
- 6. You should maintain punctuality in attending the CSP. Daily attendance is compulsory.
- 7. You are expected to learn about the community/habitation and their problems.
- 8. Know the leaders and the officials of the community/habitation.
- 9. While in project, always wear your College Identity Card
- 10. If your college has a prescribed dress as uniform, wear the uniform daily.
- 11. Identify at least five learning objectives in consultation with your Faculty Guide.

 These learning objectives can address:
 - Information about the community, including the realities and problems of the society.
 - · Need for creating awareness on socially relevant aspects/programs.
 - Acquiring specific Life Skills.

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- Learning areas of application of knowledge and technologies related to your discipline.
- Identifying developmental needs of the community/habitation.
- 12. Practice professional communication skills with team members, and with the leaders and officials of the community. This includes expressing thoughts and ideas effectively through oral, written, and non-verbal communication, and utilizing listening skills.
- 13. Be regular in filling up your Program Book. It shall be filled up in your own handwriting. Add additional sheets wherever necessary.
- 14. At the end of Community Service Project, you shall be evaluated by the person incharge of the community/habitation to whom you report to.
- 15. There shall also be evaluation at the end of the community service by the Faculty Guide and the Principal.
- 16. Do not indulge in any political activities.
- 17. Ensure that you do not cause any disturbance to the inhabitants or households during your interaction or collection of data.
- 18. Be cordial but not too intimate with the persons you come across during your service activities.
- 19. You should understand that during this activity, you are the ambassador of your college, and your behaviour during the community service programme is of utmost importance.
- 20. If you are involved in any discipline related issues, you will be withdrawn from the programme immediately and disciplinary action shall be initiated.
- 21. Do not forget to keep up your family pride and prestige of your college.
- 22. Remember that you are rendering valuable service to the society and your role in the community development will become part of the history of the community.

Community Service Project Report

Submitted in accordance with the requirement for the degree of

Name of the College

: Annamacharya institute of Technology and Science

Department

: Artificial Intelligence

Name of the Faculty Guide: Ms.K Susmitha, M.Tech.,

Duration of the CSP

: III _ I Semester

Name of the Student

: D SREENIVASULU

Programme of Study

: Bachelor of Technology

Year of Study

: III year

Register Number

: 20AK1A3044

Date of Submission

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STUDENTS DECLARATION

I, D Sreenivasulu, student of Bachelor of Technology Program, Reg. No 20AK1A3044 of the Department of Artificial Intelligence, Annamacharya Institute of Technology and Sciences College do hereby declare that i have completed the mandatory community service in III – I semester at Settigunta, Settigunta mandal under the Faculty Guideship of Ms. K Susmitha, M.Tech., Department of Computer Science and Engineering in Annamacharya Institute of Technology and Sciences College.

(Signature and Date)

Endorsements

Faculty Guide

Head of the Department

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Principal

Certificate from Official of the Community

SARPANCH
Settigunta Grama Panchayat
Rly. Kodur (M), YSR Kadapa Dt.
S. Silvo Sciloo

Authorized Signatory with Date and Seal

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shnology & Sciences, Tirupati-5)

ACKNOWLEDGEMENTS

The satisfaction that accompanies the successful completion of the task would be put incomplete without the mention of the people who made it possible, whose constant guidance and encouragement crown all the efforts with success.

We avail this opportunity to express our deep sense of gratitude and hearty thanks to Mr C GANGI REDDY, Hon'ble Secretary of AITS-Tirupati, for providing congenial atmosphere and encouragement.

We Show gratitude to **Dr C NADHAMUNI REDDY**, Principal for having provided all the facilities and support.

We would like to thank **Dr K NAVAZ**, Assistant Professor & HOD, artificial intelligence for encouragement at various levels of our project.

We thankful to our guide Ms. K Susmitha, M.Tech., Assistant Professor, Computer Science and Engineering for her sustained inspiring guidance and cooperation throughout the process of this project. Her wise counsel and suggestions were invaluable.

We express our deep sense of thanks of gratitude and thanks to all the Teaching and Non-Teaching Staff of our college who stood with us during the project and helped us to make it a successful venture.

We place highest regards to our Parents, Friends and Well-Wishers who helped a lot in making the report of this project

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ABSTRACT

Our community service project title is "Agriculture and Farming" and our main motive is to know about the process of agriculture and help the farmers with the modern techniques used. Agriculture is the practice of cultivating plants and livestock in order to provide facilities the human beings. In the rise of the sedentary human lifestyle agriculture was the key development. The cultivation of plant and food grains began years ago in order to provide food to the city population. Agriculture is the main need for the people to live in the society. Agriculture is the main source of livelihood, it provides a source for the people to earn. Most of the population in the rural areas is dependent on agriculture as their main source of income.

Farming is the act or process of working the ground, planting seeds, and growing edible plants. You can also describe raising animals for milk or meat as farming.

Food is a basic requirement for every living being. We depend on plant and animals for food. Ancient men began the cultivation of food in a small area and used certain procedures for their management and improvement. This art of cultivation of the crop is called agriculture.

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Batch No:1

FARMING AND AGRICULTURE

PLAN OF ACTION:

Actions to do:

- Visit head of the village and taking permission for survey
- Visit Farmers and knowing the details about their crop
- Collect information of present crop of the farmer.
- Collect Information about their investment on their crop.
- Collect information about what type of soil is suitable for which crop cultivating.
- Collect information about the duration of crop period
- Collect information Which crop will need less cost and gives more profit
- List their problems which are related to the crop and when he started farming.
- Give awareness about the natural bio chemicals and their uses in farming.
- Give awareness to the farmers on uses of modern technology in farming.
- Give awareness about govt schemes like crop insurance schemes

Awareness on farming.NO.OF.HOURS: 3					
Topic: 1	Topic Name	Date	Info.		
1.1	Awareness on farming		help farmers identify efficiencies that lead to higher productivity and profitability, lower input costs, and optimized fertilizer use		
1.2	Effects and costs.	26-09-2022	Agriculture imposes multiple exter nal costs upon society through effe cts such as pesticide damage to natu re.		
1.3	Live Stock Issues		Livestock production occupies 70% of all land used for agriculture		

Land and wate	er issues, Pesticides, Crop c	ultivation system	ms NO.OF.HOURS:3
Topic: 2	Topic Name	Date	Info.
2.1	Land and water issues.		Estimates of the amount of land transformed by humans vary from 39 to 50%. Agricultural water usage can also cause major environmental problems, including the destruction of natural wetlands



2.2	Pesticides.	27-09-2022	Pesticide use has increased since 1950 to 2.5 million short tons annually worldwide, yet crop loss from pests has remained relatively constant.
2.3	Crop cultivation systems.		Multiple cropping, in which several crops are grown sequentially in one year, and intercropping, when seve ral crops are grown at the same time, are other kinds of annual crop ping systems known as polyc ultures.

PlantProtection,FarmerWelfare,Pr	oductionpr
actices.NO.OF.HOURS:3	

Topic: 3	Topic Name	Date	Info
3.1	Plant Protection.		Pesticides plant protection products are used to protect plants and plant products against harmful organisms such as insects, fungi, and weeds.
3.2	Farmer Welfare	27-09-2022	The Government has rolled out a number of new initiatives like Soil Health Card Scheme, Neem Coated Urea, Paramparagat Krishi Vikas Y -ojana (PKVY)
3.3	Production practices		It dedicate to establish a database for troubleshooting product or process problems.

Safety, NO.OF. HOURS:3

State of the state	The state of the s		
Topic: 5	Topic Name	Date	Info.
5.1	Safety		The Agricultural Safety and Health Council of America (ASHCA) also holds a yearly summit to discuss safety
5.2	Sustainability	28-09-2022	Solutions are taken recognizing in environmental, and livelihood trade off, and balancing the rights of a variety of users and interests



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Batch No: 1

Guided By:

Ms. K Susmitha, M.Tech.,

Assistant Professor, Department of CSE.

Location: Settigunta

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CHAPTER 1: EXECUTIVE SUMMARY

Community programs can expand the opportunities for students to acquire personal and Visit head of the village and taking permission for survey Visit Farmers and knowing the details about their crop. Collect information of present crop of the farmer. Collect Information about their investment on their crop. Collect information about what type of soil is suitable for which crop cultivating. Collect information about the duration of crop period. Collect information Which crop will need less cost and gives more profit. List their problems which are related to the crop and when he started farming. Give awareness about the natural bio chemicals and their uses in farming. Give awareness to the farmers on uses of modern technology in farming, causes on repetition of same crop and causes of using chemical. Give awareness about govt schemes like crop insurance schemes.

Objectives: Assessment of ability of forecast based advisory to influence farmers' decisions on Selection of cultivar o Selection of optimum sowing time Conducting farm operation in tune with weather forecasts leading to energy saving, enhancing the efficacy of inputs such as fertilizer, pesticides etc. Cutting costs of agriculture inputs such as pesticide, irrigation, fertilizer, herbicide etc. Saving of crop from adverse weather Find out Economic and other benefits due to use of forecast in farm management decisions Determine the saving the crop from adverse weather. Assessing impact of favourable weather on overall growth, development and final yield of the crop.

Outcomes:

- Agriculture can help reduce poverty, raise incomes and improve food security for 80% of the world's poor, who live in rural areas and work mainly in farming.
- Sustainable agricultural operations and farming practices yield positive impacts on the environment, animals, and people.
- · They were very interested in learning about techniques in farming.



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CHAPTER 2: OVERVIEW OF THE COMMUNITY

In view of community service project, we had chosen the topic on guiding the Backbones of our Nation. The Title of our Project is named as "FARMING AND AGRICULTURE".

The Reason behind choosing this Topic is to give an awareness over an modern and useful techniques to farmers.

- Now-a-days Farmers are not aware regarding the below criteria-
- The foremost reason behind choosing farming is to give an awareness over the techniques used in the farming field.
- Only some of them are known about the techniques and high quality which are very helpful to grow a healthy crop.
- To give an awareness about the types of soil to use for a particular crop.
- Give an overview about the demanding crops at present and future profit.
- Awareness about the government schemes provided based on the caste based, crop based like
- "YSR RYTHU BAROSA" through this they get interest free crop loans to be provided, Free bore-wells, 9 hours free electricity during day time etc.
- And gave an awareness about the flood area crops like government provided Rs.4000 crores allotted for Natural Disaster Relief Fund.
- After our survey which is conducted in Phase- I, we had conducted some awareness about the benefits of using high quality pesticides, machines which are very helpful to lead a healthy and profitable crops. And also the type of soil to be used, and gave an ideas about the crops which are very profitable.
- we are conducting the survey in phase I of our project, students showed much interest responding whatever we ask to them. They were very friendly and talented students.

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CHAPTER 3: COMMUNITY SERVICE PART

As part of our community service project, we conducted some surveys regarding how aware of farmers on their agriculture. We initiated the farmers not to discontinue their farming. We gave them some guidance on how to choose particular fields to accomplish their goals. They were very enthusiased in showing their interest of listening and practicing of new technology in farming. By the end of this project, we came to conclude that many farmer were not aware of Organic Farming, Agroforestry. Natural Farming, System of Rice Intensification, Precision Farming, Conservation Agriculture, Crop Rotation and Intercropping, Cover Crops and got awareness on each and every topic which we have discussed. Through this community service project, we learnt how to interact with society. We learnt how to take initiative in every task. We had seen the students who are suffering from zero knowledge regarding present technologies and career guidance. So, we gave them some guidance which helped them to learn new things based on higher education and technologies. Finally, we declare that we are very much satisfied with this project by giving guidance to school students to take their own decisions for their better future.

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ACTIVITY LOG FOR THE PHASE - I

Day & Date	Brief Description of daily report	Learning Outcome	Person In-charge Signature
Day -1 (26- 09-2022)	Conducted survey has done by the spending time with framers who are working in fields	Many farmers don't know agriculture met hods.	
Day -2 (27- 09-2022)	Conducted a survey on problems crop cultivation.	We identified that m ost of the farmers we re not an aware of n ew techniques and s o on.	5 Sila Sallas
Day -3 (28- 09-2022)	Conducted a survey on the informationa bout fertilizers and pesticides	We observed that ma ny farmers don't ha ve any proper ideas on the crop protectio n.	
Day -4 (29-09-2022)	Interacted with the farmers to kn ow their profits and giving awa reness on the modern technolo- gies and crop insurance.	Recorded as the farm ers had poor financial status	S Sila Sailad

Dept. of Computer Science a Engy Annamacharya institute of Annamacharya Sciences, Tirupati-5 PHASE-I Report

(From Date: 26-09-2022 to Date: 29-09-2022)

Objective of the Activity Done: Conducted survey program on FARMING AND

AGRICULTURE

Detailed Report: Conducted survey on how to give awareness about modern technology to

farmer's. Many farmers not know about the advantages of Modern Technology. Initiated a

survey from farmer's about crops, pesticides and gave some information about Modern

Technology. After conducting the survey we identified that many of the farmers were not about

Modern Technology. Interacted with the farmers to know their superintendence. The survey

has done by spending the time with farmers who are working in fields. We collected

information about types of crops they cultivated, issues faced during the crop period and

information about fertilizers and pesticides and crop insurance.

We also observed that most of the farmers use cows to plough. Most of the farmers use cows

and buffaloes to plough their farm. We also observed that depending on their wealth some

farmers have big machines to plough the fields. After conducting survey we came to know that

there are two types of farming pastoral and arable support each other and increase farm yield.

On the survey conducted on agriculture we came to know it is the process of producing crops

and rearing animals for gaining profit. We also observed that the contributor to India's more

than 15% GDP is agriculture.

On the basis of survey we acknowledged about the problems faced by farmer's like poverty,

lack of knowledge about modern technology and illiteracy etc. We also helped farmers by

giving awareness about how technology can help them in agriculture like forecasting climate

more accurately, reduce water usage, increase yields and boost their net profits. We have given

some suggestions about in what ways they can use technology for better irrigation of crops.

Finally, we completed this survey and have good connections we interacted with each and

every farmer in that area and we had some small conversations. By this interaction we got to

know some information about them and their lifestyles. We had a great time with the farmers

as they are very friendly and we are that they responded very well to us.

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ACTIVITY LOG FOR THE PHASE - II

Days	Brief Description of daily report	Learning Outcome	Person In-charge Signature
Day -1	Awareness on Modern Technologies	They learnt the importance of agriculture such as the application of herbicide, pesticide, fertilizer, and improved seed.	S Sila Salab
Day -2	Information about Organic Farming	It uses fertilizers of organic origin such as compost man ure, green manure.	S Silva Saulato
Day -3	Uses of Crop rotation	The practice of planting different crops sequentially on the same plot of land to improve soil health	S Sila Sailas
Day -4	Acknowledgement on Irrigation	To irrigate is to water cro ps by bringing in water fro m pipes, canals, sprinkles.	5 Sila Salab

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PHASE - II Report

(From Dt <u>09-12-2022</u> to Dt <u>12-12-2022</u>)

Objective of the activity done: Conducted the awareness programs about the High quality techniques and machines used for farming and cleared the issues identified in Phase-I.

Detailed Report: As a part of second phase of our community service project we took an permission from the head of the village and gave us support while conducting the awareness program. The farmers require some tools to guide them and want awareness about how the developed states farmers are working with high quality techniques. These farmers plays an vital role as they are the backbones and feeders. We demonstrated them how the technology has changed. We let them know what are the different types of Techniques and Machines used in the farming. We are thinking that now the farmers to whom we gave an awareness program regarding these topics are aware of high quality machines and technologies and we think that we guided them some useful methods to cultivate the crop. By the end of our community service project, we are happy and satisfied that we got a huge number of responses from the farmers during our first phase of project as well as the second phase of community service project. This community service project helped us to know that how to interact with the society and with the community, this also taught us how to take initiative while we perform a different task in different fields.

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CHAPTER 4: OUTCOMES DESCRIPTION

The Survey forms which we have conducted to farmers are

Name

: Nageswaramma

Land

: 3acres

Crop

: papaya

Crop duration

: 1 Year

Investment

: 1lac

Profit

: 1.5 lacs

Irrigation type

: Bore well

Crop insurance: NO

Issues faced during crop season are stem issues Pesticides and fertilizer like baviston are used to control above issues.

Name

: Divya

Land

: 4 acres

Crop

: Banana

Crop duration

: 1 year

Investment

: 1.5lac

Profit

: 3 lacs

Irrigation type

: Bore well

Crop insurance: NO

Issues faced during crop season are matti tegalu, purgulu(pests), Pesticides and fertilizer like phosphate, Dap, synthetis mannualare used to control issues.

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Name

: Narayana

Land

: 5 acres

Crop

: Banana

Crop duration

: 1 Year

Investment

: 2.5lac

Profit

: 5 lacs

Irrigation type

: Drip irrigation

Crop insurance

: NO

Issues faced during crop season are matti tegalu, purgulu(pests) Pesticides and fertilizer like phosphate, Dap, synthetic manual ,gold are used to control issues.

Name

: Chalapathi

Land

: 2 acres

Crop

: Mango Crop

Duration

: 1 year

Investment

: 70k

Profit

: 260000

Irrigation type

: Bore Well

Crop insurance

: NO

Issues faced during crop season purgu ,banka ,buzi tegalu. Pesticides and fertilizer like chlorofide ,baviston, imida gold karateare used to control above issues.

HEAD

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Pegg of Coff ...

Name

: Narayana Reddy

Land

: 3acres

Crop

: Banana(1 acres),papaya (2 acres)

Crop duration

: 1 year

Investment

: 2.5 lac(banana-1.5 lac)(papaya-1 lac)

Profit

: 50k(banana),70k(papaya)

Irrigation type

: Bore Well

Crop insurance

: NO

Issues faced during crop season mattiegulu on banana, stem related on papaya Pesticides and fertilizer like Phosphate, Dap, Baviston used to control above

The problems we have identified are: After conducting the survey, we came to a conclusion that most of the farmers were not aware of the following-

Seeds: A seed is an essential and fundamental ingredient to increase crop yields and maintain steady growth in agricultural output. Many of the farmers can't identify the quality of the seeds.

Marketing: In rural India, agricultural marketing is still in poor shape. Profitable money is not provided to the farmers.

Lack of Modern Equipment: As even in 2020 also the farmers are using traditional tools for farming like plough, sickle etc. This leads to the wastage of energy and manpower and less yield per capita labour force.

Poor Irrigation facilities: In the field of farming irrigation is one of the essential steps to grow a crop perfectly but most of them are laging with it.

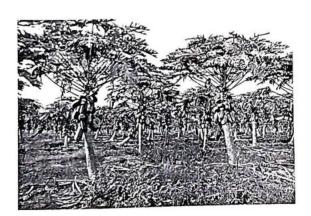
Others: Water problem, Electricity lacking etc..

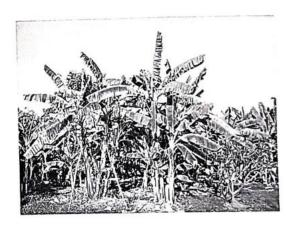
HEAD

Report of the mini-project work done in the related subject w.r.t the Farming Location : Settigunta











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Survey Done in Phase-1:

These farmers are farming their own crops on the basis of their knowledge. This information consists of the details and issues of the crops. They gave the detailed information and problems of their crops. Then we started our introduction about why we are here and what we are planning to do. After listening carefully, they were ready



Name of the farmer is Divya, number of acres is 4,Crop of the farmer is Banana, Crop duration is 1 year, Investment on the crop is 1.5lakhs, Profit on the crop is 3 lakhs, Irrigation type is Bore well, Crop insurance is NO.Issues faced during crop season are matti tegalu, purgulu (pests), Pesticides and fertilizer like phosphate, Dap, synthetic manual are used to control above issues

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Name of the person is C. Harsha S/O C. Narayana Reddy, He owns a Land of 5 acres, Crop grown in the field is mango, Crop duration is 1 year, Investment on the crop is 2 lac.Profit gain by the farmer between 4-5 lakhs. Irrigation type is Bore Well ,Crop insurance is NO.Issues faced during crop season purgu , banka ,buzi tegalu. Pesticides and fertilizer like chlorofide, baviston, imida gold karate are used to control above issues .

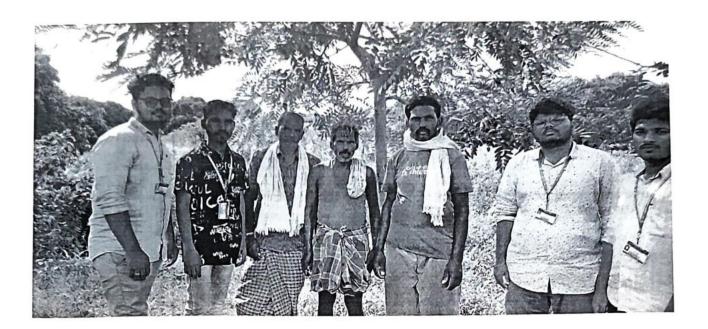
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Name of the farmer is Narayana, he owns a Land of 5 acres. Crop farmed in the field is Banana, Crop duration is 1 Year. Investment on the crop is 2.5lakhs. Profit gained by the farmer is 5 lakhs. Irrigation type of the crop is Drip irrigation, Crop insurance is NO.Issues faced during crop season are matti tegalu, purgulu(pests), Pesticides and fertilizer like phosphate, Dap, synthetic manual, gold are used to control above issues.

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Awareness programs conducted in Phase - 2:



We gave awareness about the following topics to farmers:

Modern Technologies In Farming

Mobile technology is playing an important role in monitoring and controlling crop irrigation systems. With this modern technology, a farmer can control his irrigation systems from a phone or computer instead of driving to each field.

- Moisture sensors in the ground are able to communicate information about the level of
 moisture present at certain depths in the soil. Ultrasound is not only for checking on
 baby animals in the womb. It also can be used to discover what quality of meat might
 be found in an animal before it goes to the market.
- Livestock managers are wiring up their barn feedlots and pastures with cameras that send images back to the central location like an office or home computer. They can keep a closer eye on the animals when they are away or home for the night.
- Crop sensors help apply fertilisers in a very effective manner, maximising uptake. They sense how your crop is feeling and reduce the potential leaching and runoff into ground water. Instead of making a prescription fertiliser map for a field before you go out to apply it, crop sensors tell application equipment how much to apply in real time. Optical sensors are able to see how much fertiliser a plant may need, based on the amount of light reflected back to the sensor.

The Importance of Crop Rotation

Crop Rotation

Crop rotation is the technique of planting crops in a different area of the garden so that no single

crop will be planted in the same place two—or more—years in a row.

Crop rotation helps to maintain soil structure and nutrient levels and to prevent soilborne pests

from getting a foothold in the garden. When a single crop is planted in the same place every

year, the soil structure slowly deteriorates as the same nutrients are used time and time again.

After a few years, the soil becomes unhealthy, drained of those specific nutrients.

Simultaneously, insect pests that feed on the single crop—and that spend their larval stage in

the soil—become more prolific as their food source remains. These pests become harder to

manage every year as their population increases.

Benefits of Crop Rotation

Crop rotation is beneficial for four main reasons: (1) Plants that fix nitrogen, such as peas and

other legumes, improve soil quality for future vegetables planted in the same bed. (2)

Alternating shallow-rooted and deep-rooted plants in a given area draws nutrients from the soil

at varying depths. (3) Soilborne pests that feed on one family of plants are hindered because

their food source is not in the same location every year. (4) Gardeners and farmers who practice

crop rotation do not need to let beds or fields lie fallow (crop-free) as often as they might

otherwise.

Plan Crop Rotations

Make a plan on where individual crops will be planted each year. Sow beds organized by plant

family: Alliaceae (onion family), Leguminosae (pea and bean family), Brassicaceae (cabbage

family), Solanaceae (nightshades family), Umbelliferae (carrot family), Cucurbitaceae

(marrow family), and Chenopodiaceae (beetroot family). In a notebook, draw a sketch of your

garden beds and label each with a number. Record every spring what you plant in each bed so

that no crop is planted in the same bed for two seasons.

Crop Insurance

National Agricultural Insurance Scheme (NAIS) is implemented from Kharif 2000 season with

an objective to provide a measure of financial support to the farmers in the event of Crop loss

due to any calamity to restore the credit eligibility for the next season and to stabilize farm

incomes.

YSR Free Crop Insurance Scheme Rythu Bharosa Kendras

The Government of Andhra Pradesh has established 10641 Rythu Bharosa Kendra which is

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Insurance Scheme. Considering the Nivar cyclone the details of Crop loss will be displayed at rythu Bharosa Kendra with the village secretariat. The compensation to the farmers would be paid by 31st December 2020. These details will also be available for social audit and all those farmers who are missing from this list will get enrolled in Rythu Bharosa Kendra by the government.

The main objective of the Scheme is to provide insurance cover on crops to all the farmers of the state. Through this scheme, all natural calamities like heavy rains, droughts, cyclones, etc will be covered. For the crops lost due to these natural calamities, the government is going to provide financial cover. Through this scheme, the farmers are not required to pay any premium amount. This will protect them from the financial burden. The implementation of the Scheme will also bring transparency to the system.

Benefits and Features of YSR Free Crop Insurance Scheme

- Through YSR Crop Insurance the Government of Andhra Pradesh is going to provide Crop Insurance to the farmers.
- This scheme has launched on 15 December 2020.
- Under this scheme crop loss due to natural calamities will cover.
- There are around 22 notified crops that cover under the Scheme
- . This Scheme will be free of cost.
- The farmers do not require to pay any premium in order to take benefit from this scheme
- The enrollment cost for the scheme is only Rs one
- Under YSR free Crop Insurance the government is going to pay the claim amount by directly crediting the amount to the farmer's Bank
- The government is going to pay Rs 1252 crore under the Scheme
- Through this scheme around 9.48 lakh, farmers will get the benefit
- Around 49.80 lakh farmers have enrolled in this Scheme
- Around 10641 Rythu Bharosa Kendras will help in the implementation of the Scheme
- All the crops that have been lost during the 2020 claim amount will pay on them in the
 Month of May 2021

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CHAPTER 5: RECOMMENDATIONS AND CONCLUSIONS OF THE MINI PROJECT

The survey has completed by spending time with the People who are doing agriculture In the village.we collected information from farmers they responded nicely with us they answered the question what we asked regarding farming like what are the crops they cultivates mostly, how mush money is they spent on that crop They also share there experience in farming and the joy they experience in farming.

Hereby, we conclude that the survey which we have conducted in phase -1 for farmers In the village. we collected information from farmers they responded nicely with us they answered the question what we asked regarding farming like what are the crops they cultivates mostly, how mush money is they spent on that crop , what are the fertilizers and pesticides they used for crops. We took permission officially from the head of the village conducted this survey, without any interruptions we have finished our first phase of project survey. During our second phase of our community service project, we gave some awareness programs to farmers which have motivated them a lot. Through our survey, we have recognised some problems which are facing by the students and we gave some suggestions to the problems faced by the farmers Finally, we are very much satisfied with the work done by us with the farmers hence we are thankful to the village sarpanch who gave us permission to conduct our survey which is a part of our Community Service Project and gave us full support from his side to complete the survey.

Dept. of Computer Science a chyg.
Annamacharya Institute of
hnology & Sciences. Tirubati-5)

Signature of Guide

Signature of Coordinator

Signature of H.O.D

Student Self-Evaluation for the Community Service Project

Student Name:

Date:

Registration No:					
Period of CSP:					
Date of Evaluation:					
Name of the Person in-charge:					
Address with mobile number:					
Please rate your performance in the following areas:					
Rating Scale: 1 is lowest and 5 is highest rank					
1) Oral communication	1	2	3	4	5
2) Written communication	1	2	3	4	5
3) Proactiveness	1	2	3	4	5
4) Interaction ability with community	1	2	3	4	5
5) Positive Attitude	1	2	3	4	5
6) Self-confidence	1	2	3	4	5
7) Ability to learn	1	2	3	4	5
8) Work Plan and organization	1	2	3	4	5
9) Professionalism	1	2	3	4	5
10) Creativity	1	2	3	4	5
11) Quality of work done	1	2	3	4	5
12) Time Management	1	2	3	4	5
13) Understanding the Community	1	2	3	4	5
14) Achievement of Desired Outcomes	1	2	3	4	5
15) OVERALL PERFORMANCE	1	2	3	4	5
Q		į			

23

Signature of the Student

Conner

Evaluation by the Person in-charge in the Community/Habitation

Student Name:					
Registration No:					
Period of CSP:					
Date of Evaluation:					
Name of the Person in-charge:					
Address with mobile number:					
Please rate the student's performance in the followin	g areas:				
Rating Scale: 1 is lowest and 5 is highest rank					
1) Oral communication	1	2	3	4	5
2) Written communication	1	2	3	4	5
3) Proactiveness	1	2	3	4	5
4) Interaction ability with community	1	2	3	4	5
5) Positive Attitude	1	2	3	4	5
6) Self-confidence	1	2	3	4	5
7) Ability to learn	1	2	3	4	5
8) Work Plan and organization	1	2	3	4	5
9) Professionalism	1	2	3	4	5
10) Creativity	1	2	3	4	5
11) Quality of work done	1	2	3	4	5
12) Time Management	1	2	3	4	5
13) Understanding the Community	1	2	3	4	5
14) Achievement of Desired Outcomes	1	2	3	4	5
15) OVERALL PERFORMANCE	1	2	3	4	5

#

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Signature of the Supervisor

Date:

<u>Drive links of Phase-1:https://drive.google.com/drive/folders/1uPwYmJctookHRn5s6Vs-nLZTRssffQF-?usp=sharing</u>

<u>Drive links of Phase-2:https://drive.google.com/drive/folders/1uPwYmJctookHRn5s6Vs-nLZTRssffQF-?usp=sharing</u>

SARPANCH
Settigunta Grama Panchayat
Rly. Kodur (M), YSR Kadapa Dt.
S. Silva Sailoo

Signature of Higher Authority

Dept. of Computer Science a Engg Annamacnarya Institute of Annalogy & Sciences, Tirubati-5

1.34-ED-FILE2

26-09-2022, Tisupah.

he Head of the Department of cse, ALTS-CIC-TIRUPATI.

subject: Peemission to visit locality for community service project.

Respected sin,

surice project we are baking an initiative to aware the people about cyber crimer. so, we are planned to take survey in our selected locality.

You support and permission to visit tied survey too the three days i.e 26-09-27 to 28-09-22. Our teems information about the development of the project on the given

Hope you give permission to conduct the community service project.

Thenleing you,



yours frithfully, Batch-1 of cic.

Team members:

P. manoj - 20AKIA36 19

L. Giwae kumae - 20AKIN3610 Reddy HEAD

Dept. of Computer Science α Engg.

Annamacnarya Institute of hnology & Sciences, Tirupati-5)

K. sai Ravi Teja - 20 AKI A 3629

- 20AKIAJ625 J-Rag Kumar

: Thumbalacipally Location

cyber crimes : Awareness on TITLE

> Dept. of Computer Science a Engg. MEAU Annamacnarya Institute of Anology & Sciences, Tirupati-5

PERMISSION LETTER

26-09-2022, Tirupati.

To, The Head of The Department Of CSE,

AITS-CIC-TIRUPATI.

Subject: Permission to visit locality for community service project.

Respected sir,

We are from cic 3rd year, Batch-2 of community service project. We are taking an initiative to aware the people about food scarcity and wastage of food. So, we are planned to take survey in our selected locality(karakambadi) regarding food scarcity and we prepared a plan of action to distribute the food.

For conducting such service project, we need your support and permission to visit field survey for three days i.e., from 26-09-2022 to 28-09-2022.Our team informs you about the development of the project on the given time. Hope you give permission to conduct this community service project.

Thanking You,

Yours faithfully,

Batch-2 of CIC.

TEAM MEMBERS:

P. Sai Teja - 20AK1A3630

B. Sai Kumar -20AK1A3628

M.Abhishek-20AK1A3601

S. Chandu-20AK1A3608

K.B. Suman-20AK1A3637

T. Charan Teja - 20AK1A3607

C.Tharun - 20AK1A3641

M.AkashReddy-20AK1A3602

Dept. of Computer Science & Engg Annamacnarya Institute of hnology & Sciences, Tirupati-5

Location: Karakambadi

TITLE: FOOD COLLECTION AND DISTRIBUTION

SIGNATURE OF H

Tirupathi, 2610912022

From CIC Batch NO:3

The HOD Of CSE department, AITS-Tirupathi.

Ruputed air,

Subject: Seeking permission for going to field for community service project

Batchno: 3. As csp has been communeed we need to go to rocality and we have to conduct the survey on awaraness program, so we will hope that you will grant us the permission.

Thanking you,

Team members:

1.8. Hasceb - 20AKIA3631

2 G. Navaz - 20 AKI A3620

3.5. Mansoor-200KLA 3633

4. p. Chaitanya prakash-20AKIA3604

5. S. praveen Jennar- 20AKIA3623

& S. Chardana - 20AKHA3605 Q

7 V. Tojanov - 20AKIA3640A

8.B. Karthik- 20AKIA3615

Location: STV Nagar

yours obediently,

CIC Students,

Batchno :3

Dept. of Computer Science & Er

Annamacnarya Institute of

Innology & Sciences, Tirupati-5

3 Signature of Guide

Tirupati, 26-09-22.

10

The HOD,

ATTT.

Tirupati.

Respected Sir,

I am V. Rakesh, 20AKIA3626, of Batch - 4, Community Service Project. I request you to allow our batch-4 students to go to the field trip for the Sake of community service project. Kindly give us permission for this.

Thanking you Sir,

Location: Thondavada

Guided by:

T. Sai Kishore,

Asst. Profesor,

Cse department.

Yours faithfully

Community Service traject,

il - CIC.

Dept. of Computer Science a cirgo Annamacnarya Institute of hnology & Sciences, Tirupati-5

Team - 4:

V. Rakesh - 20AKIA3626

A. Geeta Sri - 20AKIA3611

A-Keerthi - 20-AK-1A3616

R. Lavarga 20AKIA3617

S. Jamin - 20AKIA3632

P. Sai Athirtha - 20AKIA3627

A.V. Ragarshi Reddy - 20AKIA3624

G. Dileep - 20AKIA3608

S. Vignesh - 20AKHA3644

S

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Permission Letter for CSP

TO.

The Head of the Department, CSE,

AITS - TPT.

project: Rural Community cleanliness and Environmental conservation

Respected Sir,

we are batch-5 of Community Service project from CIC III'd year. As CSP has been Commenced we need to go on field for Survey and project work. So please grant us permission for doing Community Service project on 23/09/2012 - 28/09/2012

Thanking You Sir,

Location: Venkatapuram (Thimmiahgunta)

23/9/22

State of the state

Boursed 195

Your's faithfully

Tirupati 23/09/2022

O. Vambi Krishma - 3642

M. Nielesh Kuman -3621 P. Sunil Reddy 23638

K. Durga prasad - 3609

N. Sribarsharardhan - 8636

D. Harivardhan - 3645

S. Venkalesh / 3643

3. Harshavardhan - 3646

G. Tarun -3639

B

HEAD
Dept. of Computer Science a Erigg
Annamacnarya Institute of
throtogy & Sciences, Trupati-51

SRP-II

EDUCATIONAL PERFORMANCE TRACKER

A Socially Relevant Project Report
Submitted to

Jawaharlal Nehru Technological University-A, Anantapur

In partial fulfilment of the requirements

For the award of the degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

By
Project Batch – 29

Laya K

- 19AK1A0585

Koteswara P

-19AK1A0578

Pavan Kalyan Y -20AK5A0506

Jaya Krishna M -19AK1A0570

GUIDED BY

Asst Prof. T. Sreenivasula Reddy M.Tech., (PhD).,



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES::TIRUPATI (AUTONOMOUS)

Venkatapuram(V), Karakambadi(Po), Renigunta(M), Tirupati-517520, A.P. 2019-2023

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Annamacnarya Institute of hinology & Sciences, Firuoati-51

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES::TIRUPATI (AUTONOMOUS)

Venkatapuram(V), Karakambadi(Po), Renigunta(M), Tirupati-517520, A.P.

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

Certified that this is a Bonafede record of the Project Report entitled, "EDUCATIONAL PERFORMANCE TRACKER", Done by K. Laya, REG NO 19AK1A0585, P. Koteswara, REG NO. 19AK1A0578, Y. Pavan Kalyan, REG NO. 20AK1A0506, M. Jaya Krishna, REG NO. 19AK1A0570 Submitted to the faculty of Computer Science and Engineering, in partial fulfilment of the requirements for the Degree of BACHELOR OF TECHNOLOGY in Computer Science and Engineering from Jawaharlal Nehru Technological University-A, Anantapur during 2019- 2023.

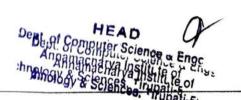
Guide: Mr. T. Sreenivasula Reddy, M.Tech. (PhD)., Assistant Professor, Dept of CSE, AITS, Tirupati.

Head of the Department:
Mr. B. Ramana Reddy M.Tech..,
Assistant Professor & HOD,
Dept of CSE,
AITS, Tirupati.

Date:		
Daic.		

Place: Tirupati

INTERNAL EXAMINER



EXTERNAL EXAMINER

ANNAMACHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES

Venkatapuram(V), karakambadi(Po), Renigunta(M), Tirupati-517520,A.P

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



DECLARATION

We hereby declare that the project titled "EDUCATIONAL PERFORMANCE TRACKER" is a genuine project work carried out by us, in B. Tech (Computer Science and Engineering) degree course of Jawaharlal Nehru Technology University-A, Anantapur and has not been submitted to any other course or university for the award of our degree by us.

19AK1A0585 - K. Laya

19AK1A0578 - P. Koteswara

20AK5A0506 - Y. Pavan Kalyan

19AK1A0570 - M. Jaya Krishna

Dept. of Computer Science a Engy Annamacnarya Institute of hnology & Sciences, Tirupati-5:

ACKNOWLEDGEMENT

The satisfaction that accompanies the successful completion of the task would be put incomplete without the mention of the people who made it possible, whose constant guidance and encouragement crown all the efforts with success.

We avail this opportunity to express our deep sense of gratitude and hearty thanks to Mr. C. GANGI REDDY, Hon'ble Secretary of AITS-Tirupati, for providing congenial atmosphere and encouragement.

We show gratitude to **Dr. C. NADHAMUNI REDDY**, **Principal** for having provided all the facilities and support.

We would like to thank Ms. B. RAMANA REDDY M.Tech., Assistant Professor & HOD, Computer Science and Engineering for encouragement at various levels of our Project.

We thankful to our guide T. SREENIVASULA REDDY, M. Tech., (PhD)., Assistant Professor, Computer Science and Engineering for his sustained inspiring guidance and cooperation throughout the process of this project. His wise counsel and suggestions were invaluable.

We thankful to APSSDC/IGDC and trainers, for training us on different platforms and for supporting us throughout our project.

We express our deep sense of gratitude and thanks to all the **Teaching** and **Non-Teaching Staff** of our college who stood with us during the project and helped us to make it a successful venture.

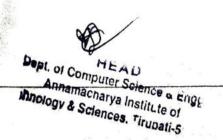
We place highest regards to our **Parents**, **Friends** and **well-wishers** who helped a lot in making the report of this project.

19AK1A0585 - K. Laya

19AK1A0578 - P. Koteswara

20AK5A0506 - Y. Pavan Kalyan

19AK5A0570 - M. Jaya Krishna



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ABBREVIATIONS

> DFD: Data Flow Diagram

> HTML: Hyper Text Markup Language

> PHP: Hypertext Preprocessor

> ER: Entity Relationship

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ABSTRACT

EDUCATIONAL PERFORMANCE TRACKER

Educational Performance Tracker is a web-based Application for Educational institutions to track their student's academic performance and providing the same to their students. It saves information such as a student's grades of previous years and attendance at a centralized student database and analyses them.

To ensure that educational activities are going in the Right direction & to fulfil the purpose of education, an institution will have to track their student's progress. This application enables them to do so easily. Students can learn about themselves and improve by doing so through this application. Here we are offering constructive feedback, and continuous evaluation of performance can prove to be the turning point in the life of a student.

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CHAPTER 1: INTRODUCTION

1.1. INTRODUCTION:

The login portals that are currently being used by any educational institute is very simple with only a single option for the students to view their results and basically nothing else. These types of portals are not very helpful to either the student or the educational institutions who want to improve their performance.

To provide a way for educational institutions to monitor their student's performance and for the students to know their academic performance and growth over the years is the reason for the making of this web site.

By offering constructive feedbacks to the students based on their performance, we are building a place for them to monitor their progress and improve themselves.

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1.2. EXISTING SYSTEM:

In the College Login portal, Students can only view their exam results. Students are not getting the proper idea to improve their academic performance. Students are not using their profiles regularly as there is only a results portal. No further feedback and analysis on performance are provided.

1.3-DISADVANTAGES OF EXISTING SYSTEM

- In existing system remaining student's progress is not calculated.
- Student's growth trajectory cannot be seen.
- Feedbacks are not available in Existing system.

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1.4. PROPOSED SYSTEM:

- A web-page by using browser, for educational institutions that allows tracking student academic performance. This web provides users with access to grading dashboards. Students can review such data as the overall curriculum progress, individual average grades, attendance, grade by subject, and others by using the graph analysis. It enables the students to fetch the required data at any given instant. Through graph analysis we'll provide instructions to grow the students in both attendance and studies.
- Learning analytics, discriminative and generative classification models are applied to predict whether a student will be able to complete his degree or not. Graphical analytical results show that proposed method significantly outperforms existing methods due to exploitation of student's information feature sets.

1.5-ADVANTAGES OF PROPOSED SYSTEM

- Providing student's progress over the past few years through the website.
- Feedback based on their performance in each semester.

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CHAPTER 2: ANALYSIS

2.1 INTRODUCTION:

- The student performance analysis system provides an easy way for students in finding their academic attendance report and marks/percentage details along with their progress shown using a graph.
- All the details of student's attendance and marks are added by the admins.
 Students can use the credentials provided by their institute to login, view attendance, marks in graph-based format, and get a feedback.
- Teachers can login, add new students to the database, and are able to remove a student from the database if necessary and they can also edit a student's info.
 Basically, this system can help to maintain and manage the records of students, and help both the students and teachers.

2.2 SOFTWARE REQUIREMENT SPECIFICATION:

2.2.1 USER REQUIREMENT

As we know that here the user requirements only two things, user need to go to the website with the specified link that we already provided and also, he needs internet resource to come website and with these two things user can easily access the website designed for career guidance.

The main thing in this project is only the user may provide their login details to enter the case details which they need to complaint and a proper detail of the case should be provided to the admin.

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2.2.2 Software requirement:

- XAMPP Control panel
- MYSQL
- Any web browser
- Languages: HTML, CSS, PHP

XAMPP Control panel:

Modules	XA	MPP Contr	ol Panel v3	.2.1				Config
Service	Module	PID(s)	Port(s)	Actions				⊚ Nelslat
	Apache	1248 7372	80, 443	Stop	Admin	Config	Logs	☑ Shell
	MySQL	6804	3306	Stop	Admin	Config	Logs	Explorer
	FileZilla			Sur	Attri 14	domi g	Lide	5 Services
	Mercury			5.31	Agmin	Gartg	-232	ы Неір
	Tomcat			10,00	4500	Serie	2,15	Quit
1 44 42	[main]	The FileZilli	a module is disa	abled				
1 44 42		The Mercury module is disabled						
11 44 42			The Tomcat module is disabled					
11 44 42		Starting Ch	eck-Timer					
11 44 42	[main]	Control Pa	nel Ready					
		111						, ,

XAMPP is the most popular PHP development environment

XAMPP is a completely free, easy to install Apache distribution containing MariaDB, PHP, and Perl. The XAMPP open-source package has been set up to be incredibly easy to install and to use.

XAMPP is a compilation of free software (comparable to a Linux distribution), it's free of charge and it's free to copy under the terms of the GNU General Public Licence. But it is only the compilation of XAMPP that is published under GPL. Please check every single licence of the contained products to get an overview of what is, and what isn't, allowed. In the case of

Dept. of Computer Science & Six Annamacharya Institute of Innology & Sciences. Trupali-6 commercial use please take a look at the product licences (especially MySQL), from the XAMPP point of view commercial use is also free.

MySQL:

The SQL part of "MySQL" stands for "Structured Query Language". SQL is the most common standardized language used to access databases. Depending on your programming environment, you might enter SQL directly (for example, to generate reports), embed SQL statements into code written in another language, or use a language-specific API that hides the SQL syntax.

MySQL Server was originally developed to handle large databases much faster than existing solutions and has been successfully used in highly demanding production environments for several years. Although under constant development, MySQL Server today offers a rich and useful set of functions. Its connectivity, speed, and security make MySQL Server highly suited for accessing databases on the Internet.

What is MySQL database used for?

MySQL is a relational database management system based on SQL – Structured Query anguage. The application is used for a wide range of purposes, including data warehousing, ecommerce, and logging applications.

HTML & CSS:

HTML (Hypertext Markup Language) is used to create the actual content of the page, such as written text, and CSS (Cascade Styling Sheets) is responsible for the design or style of the website, including the layout, visual effects and background colour.

In the case of HTML, markup instructions found within a Web page relay the structure of the document to the browser software. For example, if you want to emphasize a portion of text, you enclose it within the tags and, as shown here: This is important text!

2.2.3-Hardware Requirements

- · Laptop or Personal Computer
- · Configuration of system
 - Personal Computer or Laptop
 - o Windows Version: 8
 - o Installed Memory: 4GB
 - o ROM

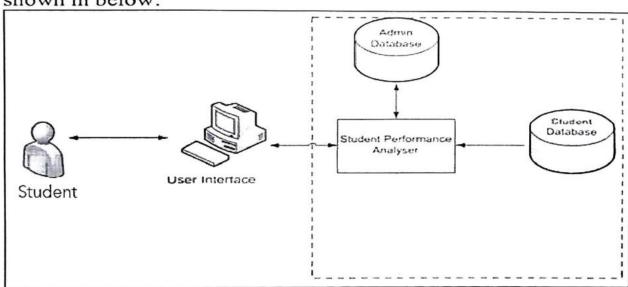
: 64GB

o Processor

: Intel Core i3 or higher

2.3 Flowcharts:

The proposed system architecture is designed as shown in below:



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CHAPTER 3: DESIGN

3.1 INTRODUCTION:

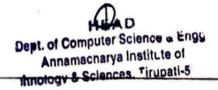
Design is the process of defining the architecture, components, modules, interfaces, and data for a system to satisfy specified requirements. One could see it as the application of systems theory to product development. There is some overlap with the disciplines of systems analysis, systems architecture and systems engineering. If the broader topic of product development "blends the perspective of marketing, design, and manufacturing into a single approach to product development, then design is the act of taking the marketing information and creating the design of the product to be manufactured. Systems design is therefore the process of defining and developing systems to satisfy specified requirements of the user.

3.2 DFD / ER Diagrams:

DATA FLOW DIAGRAMS:

A full description of a system consists of a set of data flow diagrams.

- 1. The DFD is also called as bubble chart. It is a simple graphical formalism that can be used to represent a system in terms of input data to the system, various processing carried out on this data, and the output data is generated by this system.
- 2. The data flow diagram (DFD) is one of the most important modelling tools. It is used to model the system components. These components are the system process, the data used by the process, an external entity that interacts with the system and the information flows in the system.
- 3. DFD shows how the information moves through the system and how it is modified by a series of transformations. It is a graphical technique that depicts information flow and the transformations that are applied as data moves from input to output.



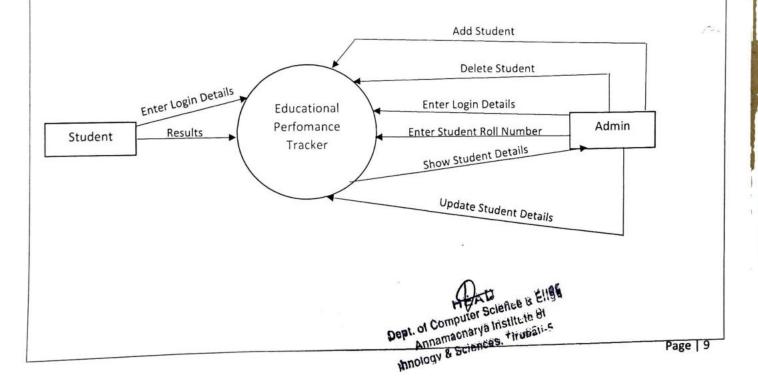
4. DFD is also known as bubble chart. A DFD may be used to represent a system at any level of abstraction. DFD may be partitioned into levels that represent increasing information flow and functional detail.

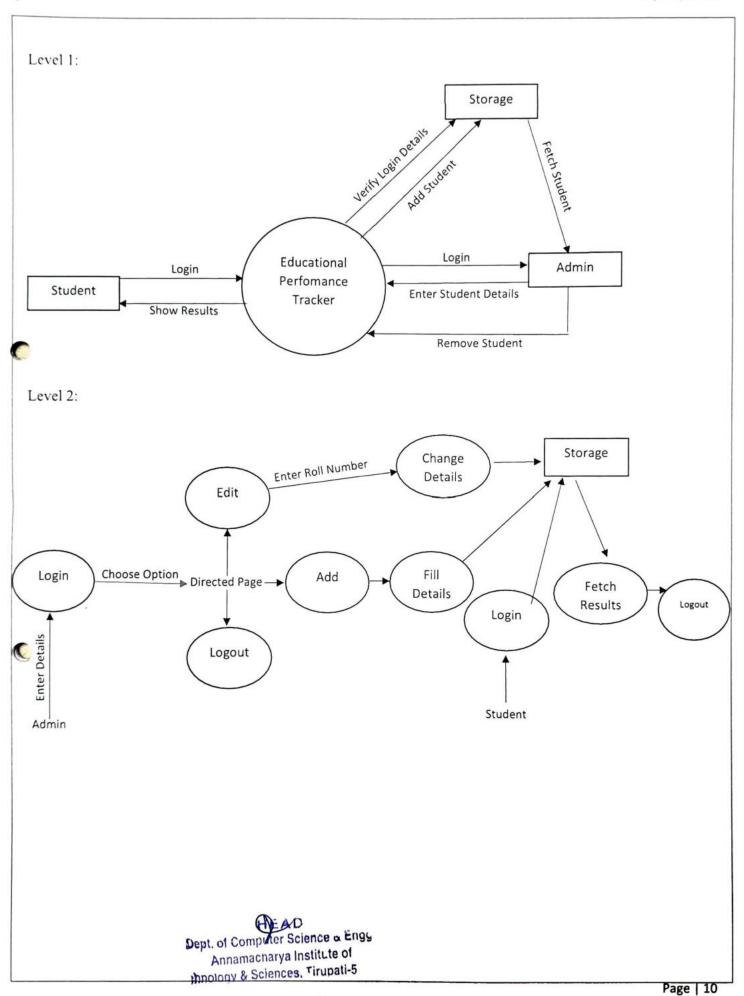
DATA FLOW DIAGRAM SYMBOLS:

SYMBOLS	DESCRIPTION		
	A parallelogram is a data object, often referred to as the I/O shape shows the inputs to and Outputs from a process		
•	An arrow identifies the data flow.		
	Rectangle is also known as process. Flowchart process object is used to illustrate a process, action or an operation		
	A square defines a source(originator)or destination of system data		
	The terminated is used to show where your flow begins or ends		
\Diamond	 Diamond is a decision object is represented as a diamond. This object is always used in a process flow to as a question 		

Table 3.2.1: Data flow diagram symbols.

Level 0:





ENTITY RELATIONSHIP(ER):

ER Diagram stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entity sets stored in a database. In other words, ER diagrams help to explain the logical structure of databases. ER diagrams are created based on three basic concepts: entities, attributes and relationships. The ER Model represents real-world entities and the relationships between them. Creating an ER Model in DBMS is considered as a best practice before implementing your database. Entity Relationship Diagram Symbols & Notations mainly contains three basic symbols which are rectangle, oval and diamond to represent relationships between elements, entities and attributes. There are some sub elements which are based on main elements in ERD Diagram. ER Diagram is a visual representation of data that describes how data is related to each other using different ERD Symbols and Notations.

ER Component	Description (how it is represented)	Notation
Entity – Strong	Simple rectangular box	Student
Entity – Weak	Double rectangular boxes	
Relationships	Rhombus symbol - Strong	\Diamond
between Entities	Rhombus within rhombus - Weak	
Attributes	Ellipse Symbol connected to the entity	Age
Key Attribute for Entity	Underline the attribute name inside Ellipse	Key Attribute
Derived Attribute for	Dotted ellipse inside main ellipse Entity	
Multivalued Attribute	Double Ellipse for Entity	

Table 3.2.2: ER diagram symbols.

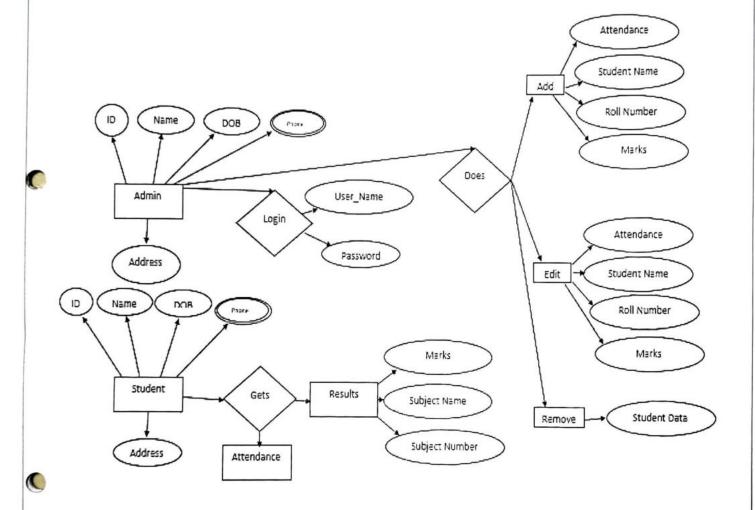
Following are the main components and its symbols in ER Diagrams:

- Rectangles: This Entity Relationship Diagram symbol represents entity types
- Ellipses: Symbol represent attributes
- Diamonds: This symbol represents relationship types

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- Lines: It links attributes to entity types and entity types with other relationship types
- · Primary key: attributes are underlined
- Double Ellipses: Represent multi-valued attributes



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CHAPTER 4: IMPLEMENTATION & RESULTS

4.1 INTRODUCTION:

Implementation is the stage of the project when the theoretical design is turned out into a working system. Thus, it can be considered to be the most critical stage in achieving a successful new system and in giving the user, confidence that the new system will work and be effective. The implementation stage involves careful planning, investigation of the existing system and its constraints on implementation, designing of methods to achieve changeover and evaluation of changeover methods.

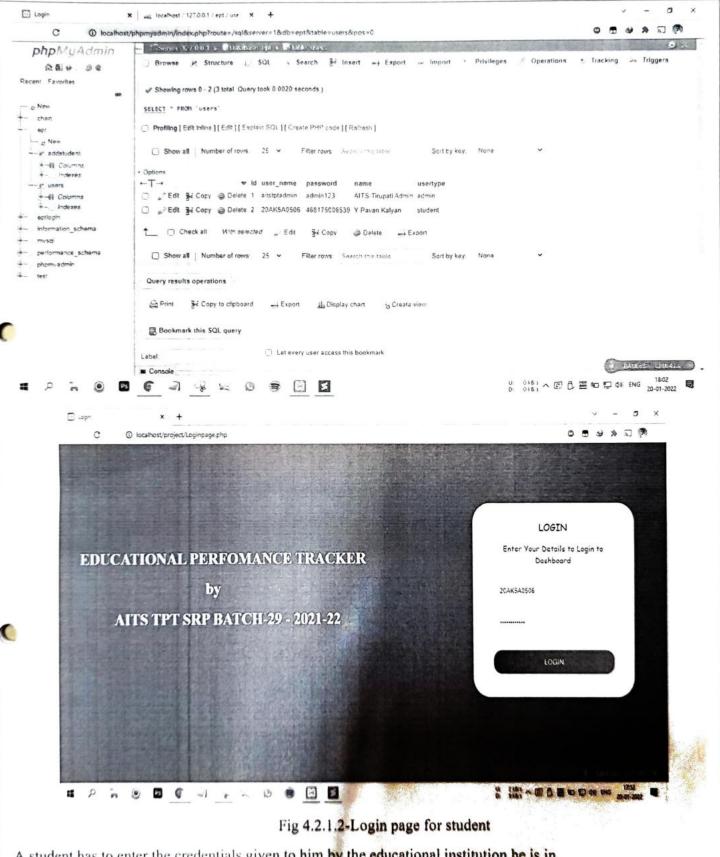
4.2.1 OUTPUT SCREENS:



Fig 4.2.1.1-Login Page for admin

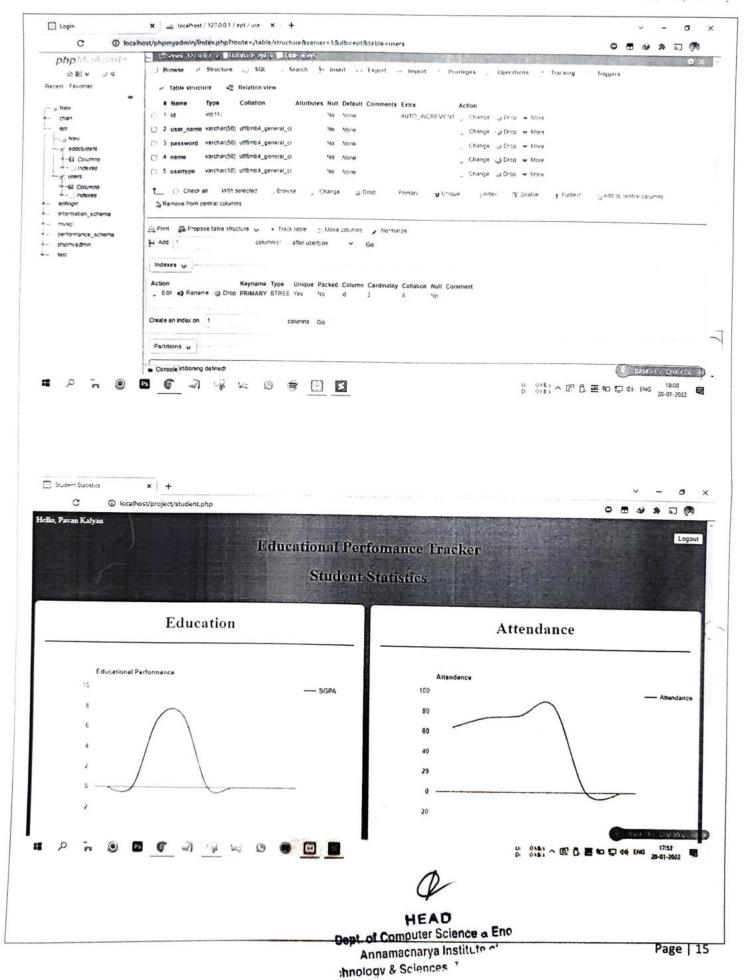
The admin has to enter his credentials to login to the portal.

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A student has to enter the credentials given to him by the educational institution he is in.





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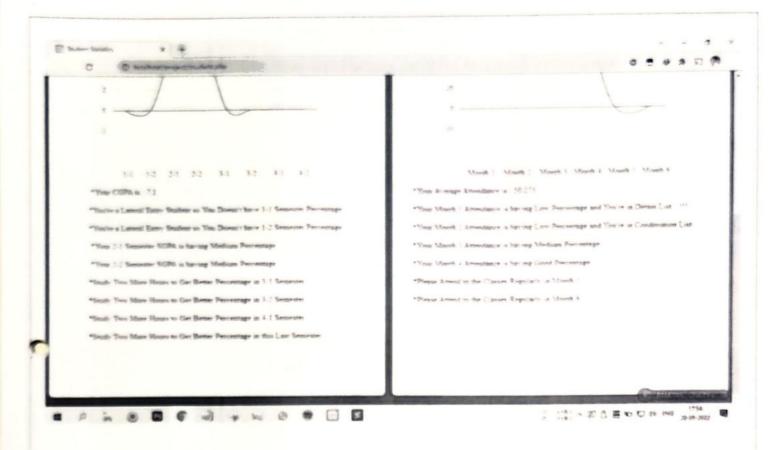
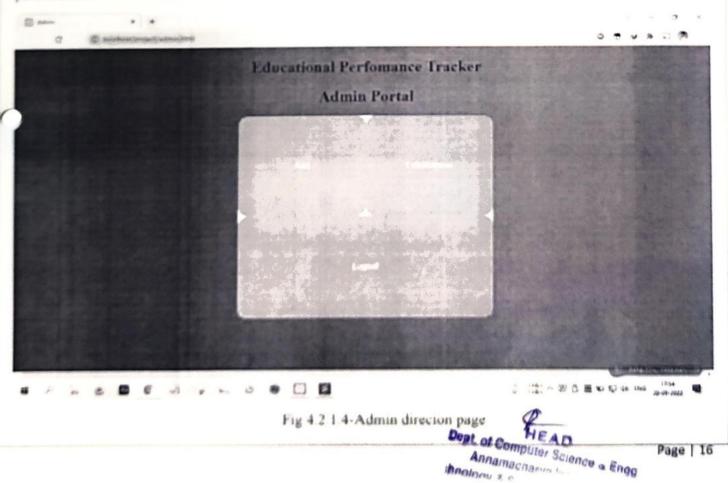


Fig 4.2.1.3-Student page

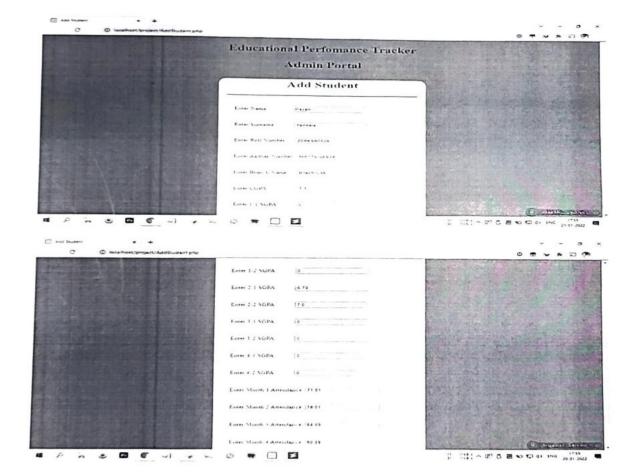
After login, the student can view his exam results in a graph represention and get a feedback based on his performance.



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Shows that there are three buttons provided for the admin to move his desired section.

- Add this button allows the admin to add a new student to the database.
- Edit Remove this button allows the amin the edit the details of a student to the database or remove a student from the database.



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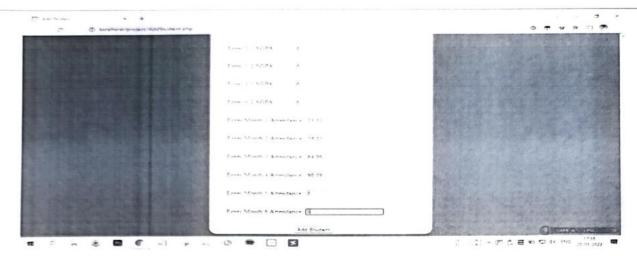
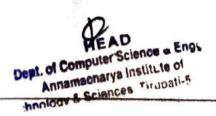


Fig 4.2.1.5-Add student

 Shows that a admin can use the given form to fill the details of a student he wants to add to the database by clicking on the Add Student button.



A picture showing the database side where the details of the student are stored.



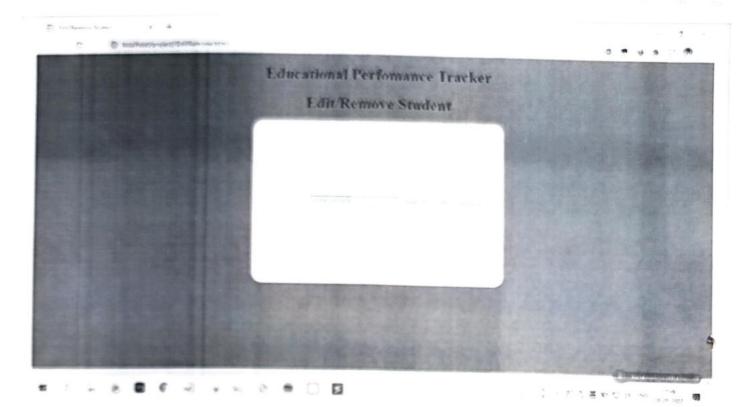
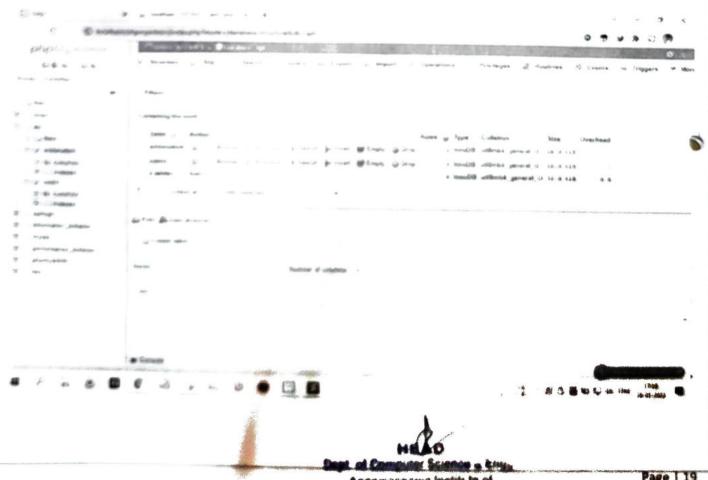


Fig 4.2.1.6-Edit of Remove Page

Here the admin can search for a student's details upon entering the rollno of the student.



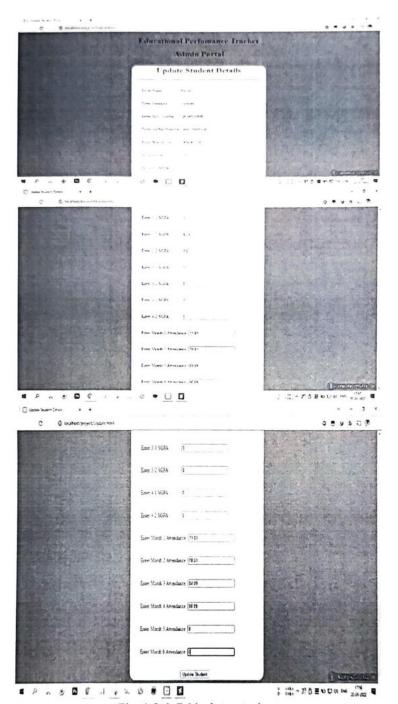
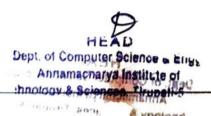


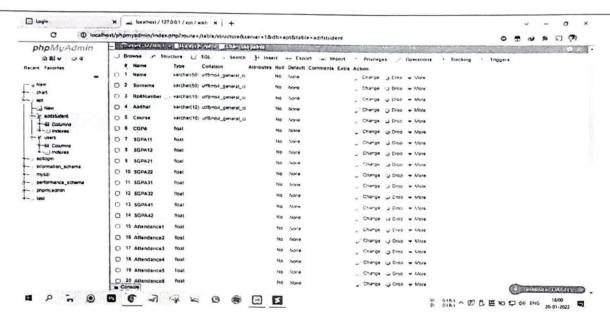
Fig 4.2.1.7 Update student

• This page allows the admin to edit the details of a student by changing the values in the boxes and clickin on the Update Student button.



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The updated student details will be stored in the database as shown above.

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CHAPTER 5: VALIDATION

5.1 Introduction:

Validation is the process of testing the website in different scenarios and validating the final result of all the test cases. Here, we perform various test on the website.

5.1 Design of test cases and scenarios:

We design various test cases to check the performance and security of the website.

Following are the test cases we designed:

- Proper working of the website.
- Input of credentials.
- Verifications.

To check whether the website is working properly, we will open each page in a web browser and check for errors.

When a user input his credentials, we have to cross verify it with those stored in the database.

After the verification is complete the user will be able to login and perform actions based on his designation as a student or admin.

5.1 Validation:

After the site passes through all the tests successfully, it will be concluded that the website is working properly.

EAD

CHAPTER 6: SAMPLE SOURCE CODE

```
Code to implement Educational Performance Tracker:
<!DOCTYPE html>
<html>
  <head>
    <Title>signinpage</Title>
    <link rel="stylesheet" href="style.css">
  </head>
    <body>
      <div class="imggg">
                <h1>&emsp;</h1>
                <h1>&emsp;</h1>
                <h1>&emsp;</h1>
        <h1>&emsp; EDUCATIONAL PERFOMANCE
TRACKER</h1>
                <h1>&emsp; &emsp; &emsp; &emsp; &emsp;
    by</h1>
                <h1>&emsp; &emsp; &emsp; &emsp;
    BATCH-29</h1>
      </div>
      <div class="totframe">
        <div class="form">
          <div class="head">
```

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```
< h3 > LOGIN < /h3 >
                Enter Your Details to Login to Dashboard
           </div>
           <form class="fill">
             <input type="text" placeholder="ID"/>
             <input type="password" placeholder="PASSWORD"/>
                            <input type="radio" id="admin"
name="designation" value="ADMIN"/>
              <label for="admin">ADMIN</label>
              <input type="radio" id="student" name="designation"
value="STUDENT"/>
              <label for="student">STUDENT</label>
              <button>login</button>
           </form>
         </div>
       </div>
    </body>
</html>
body
  background-image: linear-gradient(90deg,rgb(218, 37, 73),blue);
.imggg
                          Dept. of Computer Science a Engg
```

```
float: left;
    width: auto;
    color: white;
    border-radius: 1cm;
      font-size: medium;
.totframe
  width: 360px;
     float: right;
  padding: 8% 5% 0;
.totframe .form .head
  margin-top: -31px;
  margin-bottom: 25px;
  font-family: cursive;
.form
  position: relative;
  z-index: 1;
  background: white;
  max-width: 360px;
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                                                Annamacnarya Institute of
                                             thnology & Sciences, Tirupati-5
```

```
margin: 0 auto 100px;
    padding: 45px;
    text-align: center;
    border-radius: 1cm;
    box-shadow: 0 0 20px 0 rgba(0, 0, 0, 0.2), 0 5px 5px 0 rgba(0, 0, 0,
 0.24);
 .form input[type="text"],[type="password"] {
   font-family: "Roboto", sans-serif;
   outline: 0;
   background: #f2f2f2;
   width: 100%;
   border: 0;
   margin: 0 0 15px;
   padding: 15px;
   box-sizing: border-box;
font-size: 14px;
  .form button {
   font-family: "Roboto", sans-serif;
   margin-top: 4mm;
   text-transform: uppercase;
   outline: 0;
   background-image: linear-gradient(90deg,blue,rgb(218, 37, 73));
```

width: 100%;
border: 0;
border-radius: 0.5cm;
padding: 15px;
color: #ffffff;
font-size: 14px;
cursor: pointer;
}

HEAD

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CHAPTER 7: CONCLUSION & FUTURE ENHANCEMENT

CONCLUSION:

- This web site will help students in further understanding their progress over the past few years and gives feedback based on their performance.
- The graph constructed on their progress will give visual information to students and helps them in quickly identifying their progress.
- By following the feedback, they can plan better when they are preparing their schedule.

FUTURE ENHANCEMENT:

On Upcoming Future Updates we'll streamline the existing modules and add a feature for a student to change his password and username. And allow a student to make a schedule in the portal. Allow the student to give feedback to the admin.

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CHAPTER 8: BIBLIOGRAPHY

REFERENCES

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- AITT Staff login https://examinations.aits-tpt.edu.in/StaffLogin
- Education Tracking <u>https://en.wikipedia.org/wiki/Tracking</u> (education)
- JNTU Login https://studentservices.jntuh.ac.in/oss/login.html

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SRP-W

RENTAL HOUSE MANAGEMENT SYSTEM

A Socially Relevant Project Report Submitted to

ANNAMACHARYA INSTUITE OF TECHNOLOGY AND SCIENCES

In partial fulfilment of the requirements

For the award of the degree of

BACHELOR OF TECHNOLOGY

In

COMPUTER SCIENCE AND ENGINEERING

Ву

19AK1A0592 - B.MADHUREE

19AK1A05A0 - G.MEGHANA

19AK1A05B1 - K.NARESH KUMAR

19AK1A05A5 - B.MOUNISHA

Under the guidance of Mr.M.Kiran Moni M.Tech Assistant Professor



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SCIENCES::TIRUPATI(AUTONOMOUS)

Venkatapuram(V), Karakambadi(Po), Renigunta(M), Tirupati-517520, A.P.

2019-2023

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(AUTONOMOUS)

Venkatapuram(V), Karakambadi(Po), Renigunta(M), Tirupati-517520, A.P.

DEPARTMENT OF COMPUTER SCIENCE ENGINEERING



CERTIFICATE

Certified that this is a bona fide record of the socially relevant project report entitled
"RENTAL HOUSE MANAGEMENT SYSTEM", done by Ms.B.MADHUSREE
REG NO.19AK1A0592, Ms.G.MEGHANA REG NO.19AK1A05A0, Mr.K.NARESH
KUMAR REG NO.19AK1A05B1, Ms.B.MOUNISHA REG NO.19AK1A05A5,
"Submitted to the department of Computer Science an Engineering, in partial fulfilment of the
requirements for the Degree of BACHELOR OF TECHNOLOGY in Computer Science and
Engineering from Annamacharya Instuite of Technology and Sciences Tirupati during the
year 2019-2023.

Guide:

Mr. M. Kiran Moni M. Tech., Assistant Professor, Dept. of CSE, AITS, Tirupati.

Head of The Department:

Mr. B. Ramana Reddy M. Tech., Assistant Professor &HOD, Dept. of CSE, AITS, Tirupati

INTERNAL EXAMINER

EXTERNAL EXAMINER

Date:_____ Place:Tirupati

HERD

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Venkatapuram (V), Karakambadi (Po), Renigunta(M), Tirupati-517520

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



DECLARATION

We hereby declare that the project titled "RENTAL HOUSE MANAGEMENT SYSTEM" is a genuine project work carried out by us, in B.tech (Computer Science and Engineering) degree course of Annamacharya Institute of Technology and Sciences, Tirupathi and has not submitted to any other course or university for the award of our degree by us

> 19AK1A0592 **B.MADHUREE**

19AK1A05A0 **G.MEGHANA**

19AK1A05B1 K.NARESH KUMAR

19AK1A05A5 **B.MOUNISHA**

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We are thankful to our guide Mr. M. Kiran Moni, Assistant Professor, Computer Science and Engineering for her sustained inspiring guidance and cooperation throughout the process of this project. Her wise counsel and suggestions were invaluable.

We express our deep sense of gratitude and thanks to all the Teaching and Non-Teaching Staff of our college who stood with us during the project and helped us to make it a successful venture.

We place highest regards to our Parents, Friends and Well-wishers who helped a lot in making the report of this project.

19AK1A0592 - B.MADHUREE 19AK1A05A0 - G.MEGHANA

19AK1A05B1 - K.NARESH KUMAR

19AK1A05A5 - B.MOUNISHA

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ABBREVIATIONS

--> DFD: Data Flow Diagram

--> ER: Entity Relationship

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CHAPTER-I

ABSTRACT

Now a days city life dependent largely on technology we have to stay far away from our home for study purpose and work purpose and work purpose. We need houses on rent for accomadation and we had the first hand experience of how difficult it is to find a proper place for accomadation. Therefore we came up with an idea of developing an Rental House Management System which can make things easy for city dwellers. The idea behind developing this web application is that owner can rent their property using this rental house management system. In this system the owner can maintain their property document keeping and managing property registration and also access its information and manage all the adding, updating, deleting etc. The admin user can upload information regarding property and cancellation of property are changing renters choice.

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CHAPTER-1 INTRODUCTION

1.1 INTRODUCTION:

The Rental House Management System is searching based on the Apartment House for rent in The system is based on Owners and the Customers. The Owner is updated on the Apartment details, and rent details. The Customer is details about the Room space, Room rent and the Address Details also. The rental house system is best suitable the owners because time save and the only contact and the eligible person and there is no need to explain the room details on the speak. Hence this system is best applicable for the above reasons makings rental house an easy process through an online system.

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CHAPTER-2 SYSTEM ANALYSIS

System analysis is defined as the process of gathering and interpreting facts, diagnosing problem and using the facts to improve the system. The objective of the system analysis phase is the establishment of the requirements of the system to be acquired, developed and installed. Fact finding or gathering is essential to any analysis of requirement. A detailed study of the system is done by making use of various techniques. The data collected must be scrutinized to arrive at a conclusion. The conclusion is an understanding of how the system functions. The system is called existing system. Now, the existing system is subjected to close study and the problem areas identified. The solutions are given as a proposal. The proposed system is presented to the user.

2.1. EXISTING SYSTEM

Currently the most property managers manage property and tenants details on papers. Once customers finds a vacant house, they can call or email manager of the houses indicating the size of the house they would like rented to them The property manager can email them back giving them all the details about the house they are requesting when the current system recording the details of various activities of user is completely manual and entails a lot of paper work .The existing system only provides text based interface which is not as user friendly as Graphical user interface.

2.2. DISADVANTAGES OF EXISTING SYSTEM

- Inconsistency in data entry, rooms for errors.
- Large ongoing staff training cost.
- System is dependent on good individuals.
- Reduction in sharing the information and customer services.
- Time consuming.
- Costly to provide reports.

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2.3. PROPOSED SYSTEM

- User initially want to sign up and create the account and user logs in the system automatically will show number of rented house in particular places.
- In this information like owner name, house rent, address, and mobile number will
 the user to avoid the house broker, rent payment form, registration form.
- Each form has several command buttons like new, search, cancel, Back and exit.
 With the command buttons you can manipulate the database.

2.4. ADVANTAGES OF PROPOSED SYSTEM

- Eliminate paper-based process
- · Intuitive & user-friendly
- · Customization and flexibility
- Optimal resource allocation

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CHAPTER-3 SYSTEM REQUIREMENTS AND SPECIFICATIONS

3.1. HARDWARE SPECIFICATIONS

The hardware requirements may serve as the basis for a contract for the implementation of the system and should therefore be complete specifications of the whole system. They are used by software engineers as the starting point for the system design. It should what the system do and not how it should be implemented.

- · A standalone computer (i5 processor)
- RAM-4GB

3.2. SOFTWARE SPECIFICATIONS

The software requirements document is the specification of the system. It should include both a definition and a specification of requirements. It is a set of what the system should do rather than how it should do it. The software requirements provide a basis for creating the software requirements specifications.

• Operating System: Windows 10

• Programming languages: Python, PHP, XAMPP, MYSQL

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CHAPTER-4 SYSTEM DESIGN

4.1 Data Flow Diagram:

A data flow diagram is a graphical tool used to describe and analyses movement of data through a system. These are the central tool and the basis from which the other components are developed. The transformation of data from input to output, through processing, may be described logically and independently of physical components associated with the system. These are known as the logical data flow diagrams. The physical data flow diagrams show the actual implements and movement of data between people, departments and workstations.

A full description of a system consists of a set of data flow diagrams.

- The DFD is also called as bubble chart. It is a simple graphical formalism that can be used to represent a system in terms of input data to the system, various processing carried out on this data, and the output data is generated by this system.
- The data flow diagram (DFD) is one of the most important modelling tools. It is
 used to model the system components. These components are the system process, the data
 used by the process, an external entity that interacts with the system and the information
 flows in the system.
- DFD shows how the information moves through the system and how it is modified by a series of transformations. It is a graphical technique that depicts information flow and the transformations that are applied as data moves from input to outpu4. DFD is also known as bubble chart. A DFD may be used to represent a system at any level of abstraction. DFD may be partitioned into levels that represent increasing information flow and functional detail

DATA FLOW SYMBOLS:

Symbol	Name	Function
	714 pr 1 400	· · · · · · · · · · · · · · · · · · ·
	Attimo	A firm on a construction that the first construction that the cons
1	traject/Ocetynet	Marian alternative parts
200	******	A residence requirements of
	A lease or more and	And in the parties of the Control of Control

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thrology & Sciences, Trupation

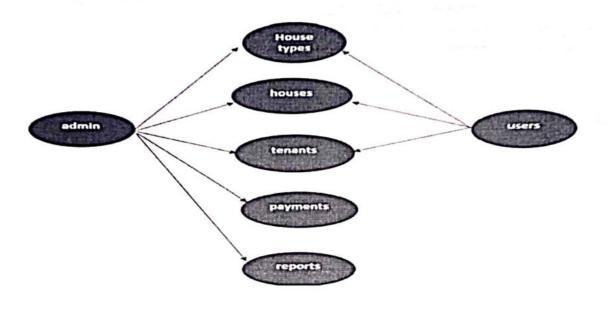


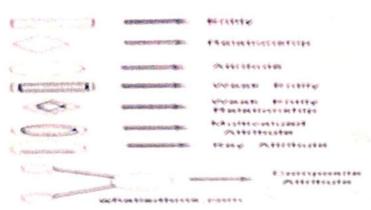
Fig 4.1:- data flow diagram for rental house management system

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ER-DIAGRAM:

ER Diagram stands for Entity Relationship Diagram, also known as ERD is a diagram that displays the relationship of entity sets stored in a database. In other words, ER diagrams help to explain the logical structure of databases. ER diagrams are created based on three basic concepts: entities, attributes and relationships. ER Diagrams contain different symbols that use rectangles to represent entities, ovals to define attributes and diamond shapes to represent relationships. At first look, an ER diagram looks very similar to the flowchart. However, ER Diagram includes many specialized symbols, and its meanings make this model unique. The purpose of ER Diagram is to represent the entity framework infrastructure ER Model stands for Entity Relationship Model is a high-level conceptual data model diagram. attributes. There are some sub-elements which are based on main elements Multi shopping site app AITS ,Dept. of CSE,TIRUPATHI in ERD Diagram. ER Diagram is a visual representation of data that describes how data is related to each other using different ERD Symbols and Notations. Following are the main components and its symbols in ER Diagrams:

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hnology & Sciences, Tirupali-5



4.2:ER-DIAGRAM



Fig 4.2 -ER diagram of attendance management system using local binary pattern histogram algorithm

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AJ FLOW CHARTS

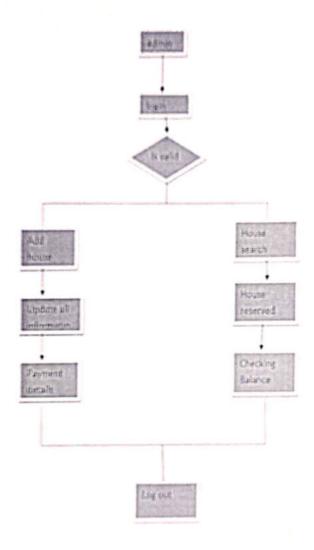


Fig 4.3:-flow chart for rental house management system

CHAPTER-5 IMPLEMENTATION & RESULTS

MODULES

This system has the following

- de Atlantine bygnes
- to thousen
- in temants
- * Prexements
- * Reports
- ≽ Uners

House types

In house types it contains the following aspects:

Types of houses

Houses

In Housesit contains the following:

- > House no
- > House type
- Description
- > Price

Temants

> It contains information about tenants.

Payments.

> It contains information about payments.

Reports

> It contains monthly balance reports

Lyery

> It contains the user information

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```
5.1 SAMPLE CODE
<?php
$curr_dir = dirname(__FILE__);
include("{$curr_dir}/defaultLang.php");
include("{Scurr_dir}/language.php");
include("{Scurr_dir}/lib.php");
$admin_tools = new AdminTools($_REQUEST);
class AdminTools {
       private Srequest, Slang;
       public function __construct(Srequest = array()){
              global $Translation;
              if(!getLoggedAdmin()) return;
              Sthis->lang = STranslation;
              /* process request to retrieve $this->request, and then execute the requested action */
              Sthis->process request(Srequest);
              echo call_user_func_array(array($this, $this->request['action']), array());
```

}

protected function process_request(\$request){
 /* action must be a valid controller, else set to default (show_admin_tools) */
 \$controller = isset(\$request['action']) ? \$request['action'] : false;
 if(!in_array(\$controller, \$this->controllers())) \$request['action'] = 'show_admin_tools';

```
Sthis-request = Srequest;
* discover the public functions in this class that can act as controllers
· @return array of public function names
protected function controllers() [
       Src = new ReflectionClass(Sthis);
       Smethods = $rc->getMethods(ReflectionMethod::IS_PUBLIC);
       Scontrollers = array():
       foreach(Smethods as Smthd){
              Scontrollers[] = Smthd->name;
       return Scontrollers;
· function to show admin tools menu for admins, or nothing otherwise
public function show_admin_tools()(
       handle maintenance();
      Stablename = Sthis->get_table();
```

ob_start(); ?> <div class="dropdown pull-right invisible" id="admin-tools-menu-button"> <button type="button" data-toggle="dropdown" class="btn btn-danger btn-xs" title="<?php echo html attr(\$this->lang['Admin Information']); ?>" <i class="glyphicon glyphicon-option-vertical"></i> </button> <div class="dropdown-menu" id="admin-tools-menu"> <h5><?php echo Sthis->lang['Admin Information']; ?></h5> <div class="alert alert-danger no-owner hidden"><?php echo Sthis->lang['record has no owner']; ?></div> <dl class="dl-horizontal"> <dt><?php echo Sthis->lang['owner']; ?></dt> < dd ><div class="owner-username"></div> class="change-owner-link" <i class="glyphicon glyphicon-user"></i> <?php echo Sthis->lang['Change owner']; ?>
 <i class="glyphicon glyphicon-th"></i> <?php echo str_replace('<tablename>', Stablename, Sthis->lang['show all user records from table']); ?> <i class="glyphicon glyphicon-envelope"></i> <?php echo Sthis->lang['email this user']; ?> </dd>

13

```
<dt><?php echo $this->lang['group']; ?></dt>
                                   <dd>
                                          <div class="owner-group"></div>
                                          <a class="group-records-link" href="" target="_blank"><i
class="glyphicon glyphicon-th"></i> <?php echo str_replace('<tablename>', Stablename, Sthis-
>lang['show all group records from table']); ?></a>
                                          <a class="group-email-link" href="" target=" blank"><i
class="glyphicon glyphicon-envelope"></i> <?php echo Sthis->lang['email this group']; ?></a>
                                   </dd>
                                   <dt><?php echo Sthis->lang['created']; ?></dt>
                                   <dd class="record-created"></dd>
                                   <dt><?php echo Sthis->lang['last modified']; ?></dt>
                                   <dd class="record-last-modified"></dd>
                            </dl>
                     </div>
              </div>
              <div class="clearfix"></div>
              <style>
                     #admin-tools-menu-button{ display: inline-block !important; margin: 0 1em; }
                     #admin-tools-menu{ padding: 1em 2em; }
                     #admin-tools-menu .dl-horizontal dd, #admin-tools-menu .dl-horizontal dt{
padding: 1em 0; }
              </style>
```

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```
<?php
       $html = ob_get_contents();
       ob_end_clean();
       return Shtml;
1
* function to return the js code for the admin menu
*/
public function get_admin_tools_js(){
       handle_maintenance();
       Srecord_info = Sthis->get_record_info();
       if(!Srecord_info || Srecord_info == 'null') return;
       @header('Content-type: application/javascript');
       ob_start();
       ?>
       Sj(function(){
               var tablename = '<?php echo Sthis->get_table(); ?>';
               var record_id = '<?php echo addslashes(Sthis->request['id']); ?>';
              var record_info = <?php echo Srecord_info; ?>;
              Sj('#admin-tools-menu-button')
                      .appendTo('.detail_view .panel-title:first')
                      .removeClass('invisible');
```

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Annamacnarya Institute of

```
$j(window).resize(function(){
       var dv_width = $j('.detail_view').width();
       var menu_width = Math.min(dv width * .9, 500);
       $j('#admin-tools-menu').width(menu_width);
}).trigger('resize');
/* change owner link */
$j('#admin-tools-menu .change-owner-link').click(function(){
       mass change owner(tablename, [record id]);
       setTimeout(update_username, 900);
       return false;
});
/* function to update record info after 'change owner' dialog is gone */
var update_username = function(){
       /* wait till any modals disappear */
        if(AppGini.modalOpen()) return setTimeout(update_username, 900);
        $j.ajax({
               url: 'ajax_admin_tools.php',
               data: {
                       table: tablename,
                       id: record id,
                       action: 'get record_info'
               },
               success: function(ri){
                       update record_info(ri);
```

```
1);
                     };
                     /* function to update record info */
                     var update_record_info = function(ri){
                             if(ri == undefined) return;
                             $j('#admin-tools-menu .no-owner').addClass('hidden');
                             $j('#admin-tools-menu .dl-horizontal').removeClass('hidden');
                             if(undefined == ri.memberID){
                                    Sj('#admin-tools-menu .no-owner').removeClass('hidden');
                                    $j('#admin-tools-menu .dl-horizontal').addClass('hidden');
                            $j('#admin-tools-menu .owner-username').html(ri.memberID);
                            $j('#admin-tools-menu
                                                                      .user-records-link').attr('href',
'admin/pageViewRecords.php?memberID=' + encodeURIComponent(ri.memberID) + '&tableName='
+ encodeURIComponent(tablename));
                            $j('#admin-tools-menu
                                                                       .user-email-link').attr('href',
'admin/pageMail.php?memberID=' + encodeURIComponent(ri.memberID));
                            $j('#admin-tools-menu .owner-group').html(ri.group);
                            $j('#admin-tools-menu
                                                                    .group-records-link').attr('href',
'admin/pageViewRecords.php'?groupID=' + encodeURIComponent(ri.groupID) + '&tableName=' +
encodeURIComponent(tablename));
                            $j('#admin-tools-menu
                                                                      .group-email-link').attr('href',
'admin/pageMail.php?groupID=' + encodeURIComponent(ri.groupID));
                            $j('#admin-tools-menu .record-created').html(ri.dateAdded);
```

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:hnology & Sciences. Tirupati-5

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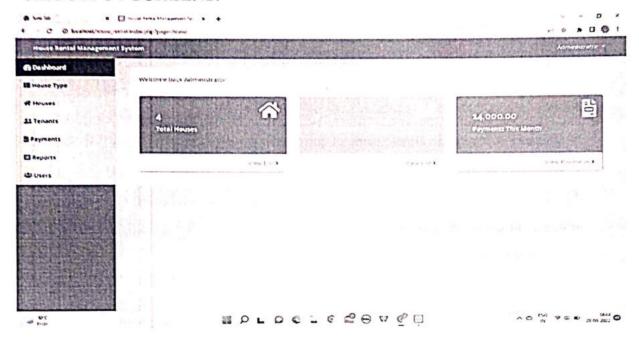
```
$j('#admin-tools-menu .record-last-modified').html(ri.dateUpdated);
                       1:
                      update_record_info(record_info);
               1)
               <?php
               $js = ob_get_contents();
               ob_end_clean();
               return Sis:
        1
        public function get_record_info(){
               handle_maintenance();
               @header('Content-type: application/json');
               Stable = Sthis->get_table();
               Ssafe_id = makeSafe(Sthis->request['id']);
              Sres = sql("select r.memberID, r.dateAdded, r.dateUpdated, g.groupID, g.name as 'group'
from membership_userrecords r left join membership_groups g on r.groupID=g.groupID where
r.tableName='{Stable}' and r.pkValue='{Ssafe_id}'", Seo);
              if(!Sres) return 'null';
              Srec_info = @db_fetch_assoc($res);
              $admin_config = config('adminConfig');
              Srec info['dateAdded']
                                                       date(Sadmin_config['PHPDateTimeFormat'],
Srec_info['dateAdded']);
              Srec info['dateUpdated']
                                                       date(Sadmin_config['PHPDateTimeFormat'],
$rec_info['dateUpdated']);
                                                                                                 18
                                                    DEPL of Computer Science . Engl
```

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```
return @json_encode($rec_info);
}
 * @brief Retrieve and validate name of current table
 * @return table name, or false on error.
protected function get_table(){
       $table_ok = true;
       $table = $this->request['table'];
       if(!$table) $table_ok = false;
       if(Stable_ok){
               $tables = getTableList();
               if(!array_key_exists($table, $tables)) $table_ok = false;
       }
       if(!Stable_ok) return false;
       return Stable;
}
```

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5.2.OUTPUT SCREENS:



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Fig 5.1: It describes Houses module, which contain different types of houses.

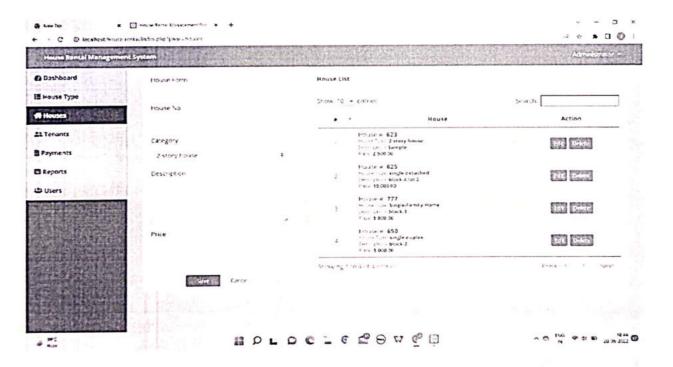


Fig5.2: It describes the Tenants module.

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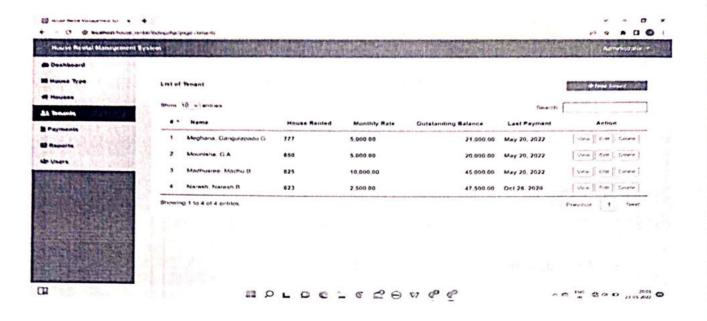


Fig5.3: It describes the tenanats module

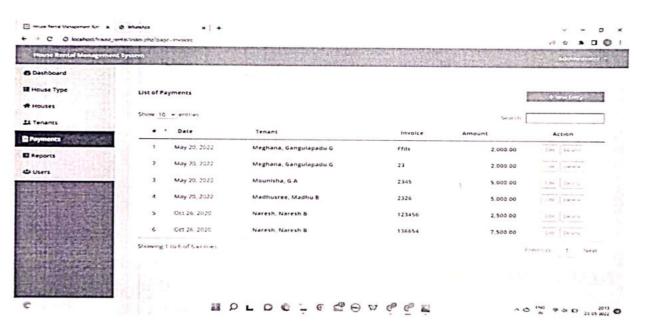


Fig 5.4: it describes the payment module

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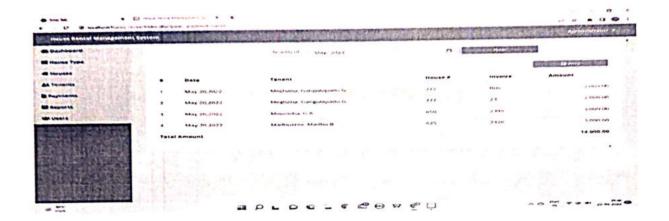


Fig 5.5: it describes the information about the payments

ALDINOIS IN DIGIESMO	utalijuskis tijb ji bilk-niki. Di avra ge es nimbasa				ν - σ × μ ν * □ Φ :
House Rental Management	t System				Agministrator *
@ Dashboard					School State of
■ House Type	Show 10 v ent	ries			Swarch
₩ Houses		Name	Usernam	пе Туре	Action
21 Tenants		Administrator	actinics	Admin	Action -
■ Payments	Showing 1 to 1 o	f Lentries			Previous 1 Next
■ Reports					
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arc Hate			L D 0 _ 6 2º 0	44 G E	V C A G R 33 64 1071 60

Fig 5.6: it describes the user details

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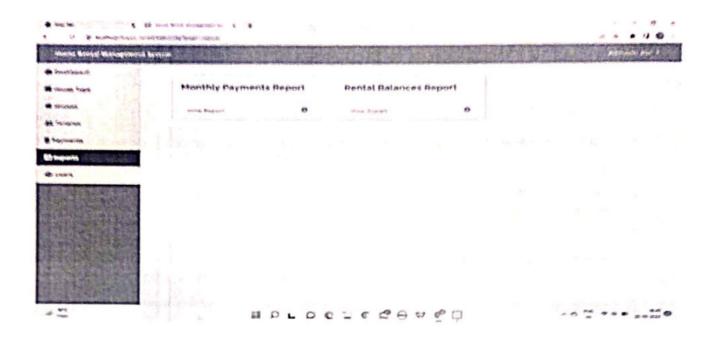


Fig 5.7: it describes the monthly reports module



Fig 5.8: it describes the information about the payments



CHAPTER-6 CONCLUSION & FURTURE ENHANCEMENTS

6.1 CONCLUSION:

- Effectively resolving the apartment issues is important to the buyer's long term future.
- The Rental House Management System will be an important tool for creating rental housing stability by helping tenants speak with greater creadibility through initiating and documenting communications and building productive relationships with sellers.
- Finally, the goal of the project is to create a better relationship between tenants and a sellers which can be achieved through this project.

6.2 FUTURE ENHANCEMENT:

- In future, our project is meant to satisfy the needs of rental house owners.
- This package shall prove to be a powerful in satisfying all requirements of the users.
- In extend we can add GPS system in build and can give live chat online options to users.
- In future, this system might help both users and owners to reduce man power in search of houses that are available.

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CHAPTER-7

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SRP-IV

SMART FARMING USING IOT

A Socially Relevant Project Report submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY-ANANTAPUR

In partial fulfilment of the requirements for the award of the degree of

BACHELOR OF TECHNOLOGY

In

Computer Science and Engineering

by

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19AK1A05F5 - S. SADIK

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Under the Guidance of

Mrs. N. Geethanjali, M. Tech, (Ph.D)

(Assistant Professor)



DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING
ANNAMCHARYA INSTITUTE OF TECHNOLOGY AND SCIENCES
(AUTONOMOUS)

Venkatapuram(V), Karakambadi(P), Renigunta(M), Tirupati - 517520, AP

(2019 - 2023)

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



Certified that this is a bonafide record of the socially relevant project report entitled "SMART FARMING USING IOT", done by T.RAJITHA REDDY, REG NO: 19AK1A05D3, S.SADIK, REG NO: 19AK1A05F5, A.SNEHA, REG NO: 19AK1A05G2, K.YOSITHA, REG NO: 19AK1A05J2, K.PRAVEEN KUMAR, REG NO: 19AK1A05E3 submitted to the Department of Computer Science and Engineering, in partial fulfilment of the requirements for the degree of BACHELOR OF TECHNOLOGY in Computer Science and Engineering from Jawaharlal Nehru Technological University-A, Anantapur during the year 2019 – 2023.

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Date:

Place: Tirupati

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DECLARATION

We hereby declare that the project titled SMART FARMING is a genuine socially relevant project work carried out by us, in B. Tech (Computer Science and Engineering) degree course of Jawaharlal Nehru Technological University-A, Anantapur and has not been submitted to any course or university for the award of our degree.

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provided all the facilities and support.

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HOD, Computer Science and Engineering for encouragement at various levels of our

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Professor, Computer Science and Engineering for his sustained inspiring guidance

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were invaluable.

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make it a successful venture.

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ABSTARCT

As per the FAO statistics of world agriculture in 2010, India is the world's largest producer of many fresh fruits. In 2013, India was the seventh largest agriculture exporter, exporting \$39 BN worth of agricultural goods. All this data shows how big the agricultural industry in India is. To provide smart farming techniques to Indian farmers to accurately monitor essential factors of crop growth, this project is developed.

The device measures three of the most important and basic parameters for growth of plants namely soil moisture, temperature and humidity. The microcontroller is Arduino Uno. The Soil Moisture Sensor measures soil moisture grace to the changes in electrical conductivity of the earth (soil resistance increases with drought). The sensors read the data and send it to the microcontroller board. The board then processes and maps the data as per the code.

The advantage of using this system to reduce human intervention and sufficient supply is given without wasting water. The project uses an 8051 series micro controller which is programmed to receive input signal of varying moisture conditioning of the soil through sensing arrangement. This is achieved by using an opamp as comparator which acts as interface between the sensing arrangement and the microcontroller. When the microcontroller receives the signal it gives an output that drives a relay for operating the Water pump and to run the water pump for certain amount of time. A input is given in the form of time which is linked directly to the timer section of microcontroller.

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1.INTRODUCTION

By using the concept of modern irrigation system a farmer can save water up to 50%. This concept depends on two irrigation methods those are: conventional irrigation methods like overhead sprinklers, flood type feeding systems i.e., wet the lower leaves and stem of the plants. The area between the crop rows become dry as the large amount of water is consumed by the flood type methods, in which case the farmer depends only on the incidental rainfalls. The crops are been infected by the leaf mold fungi as the soil surface often stays wet and is saturated after irrigation is completed.

Overcoming these drawbacks new techniques are been adopted in the irrigation techniques, through which small amounts of water applies to the parts of root zone of a plant. The plant soil moisture stress is prevented by providing required amount of water resources frequently or often daily by which the moisture condition of the soil will retain well. The diagram below shows the entire concept of the modern irrigation system. The traditional techniques like sprinkler or surface irrigation requires / uses nearly half of water sources. Even more precise amounts of water can be supplied for plants. As far as the foliage is dry the plant damage due to disease and insects will be reduced, which further reduces the operating cost.

The dry rows between plants will leads to continuous federations during the irrigation process. Fertilizers can be applied through this type of system, and the cost required for will also reduces. The erosion of soil and wind is much reduced by the recent techniques when compared with overhead sprinkler systems. The soil characteristics will define the form of the dripping nature in the root zone of a plant which receives moisture. As the method of dripping will reduce huge water losses it became a popular method by reducing the labor cost and increasing the yields. When the components are activated, all the components will read and gives the output signal to the controller, and the information will be displayed to the user (farmer). The sensor readings are analog in nature so the ADC pin in the controller will convert the analog signals into digital format. Then the controller will access information and when the motors are turned on/Off it will be displayed on the LCD Panel.

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1

2. IDEA OF THE PROJECT

There is an urgent need for a system that makes the agricultural process easier and burden free from the farmer"s side. With the recent advancement of technology it has become necessary to increase the annual crop production output entirely agro-centric economy.

The ability to conserve the natural resources as well as giving a splendid boost to the production of the crops is one of the main aims of incorporating such technology into the agricultural domain of the country.

To save farmers effort, water and time. Irrigation management is a complex decision making process to determine when and how much water to apply to a growing crop to meet specific management objectives.

If the farmer is far from the agricultural land he will not be noticed of current conditions. So, efficient water management plays an important role in the Irrigated agricultural cropping systems.

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3. PROBLEM STATEMENT

Irrigtion of plants is usually a very time- consuming activity, to be done in a reasonable amount of time, it requires a large amount of human resources. Traditional all the steps were executed by humans. Nowadays some systems use technology to reduce the number or workers or the time required to water the plants. With such systems, the control is very limited, and many resources are still wasted.

Water is one of these resources that are used excessively. Many irrigation is one method used to water the plant. This method represents massive losses since the amount of water given is in excess of the plant's needs. The excess water is evacuated by the holes of the pots in greenhouses, or it percolates through the soil in the fields.

The contemporary perception of water is that of a free renewable resource that can be used in abundance. It is therefore reasonable to assume that it will soon become a very expensive resource everywhere.

In addition to the excess cost of waterm labour is becoming more and more expensive. As a result, if no effort is invested in optimising these resources, there will be more money involved in the same process. Technology is probably a solution to reduce costs and prevent loss of resource, this project can be a strong way to tackle such a situation.

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4.SCOPE OF THE PROJECT

Day by day, the field of electronics is blooming and have caused great impact on human beings. The project which is to be implemented is an automated irrigation method and has a huge scope for future development. The project can be extended to greenhouses where manual supervision is far and few in between. The principle can be extended to create fully automated gardens and farmlands. Combined with the principle of rain water harvesting, it could lead to huge water savings if applied in the right manner. In agricultural lands with severe shortage of rainfall, this model can be successfully applied to achieve great results with most types of soil.

By developing a Smart Wireless Sensor and by using upcoming techniques a farmer can increase his profit by solving different problems that are faced by the farmer in his routine life. And also to involve Arduino – Controller with a video capturing by using an MMS facility about the crop position and at the same time sending video to the farmer.

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5. ANALYSIS

5.1 HARDWARE REQURIMENTS

5.1.1. Temperature Sensor (LM35):

The temperature sensor used to measure the temperature at the field is LM35. The LM35 series are precision integrated-circuit temperature sensors, whose output voltage is linearly proportional to the Celsius (Centigrade). The LM35 does not require any external calibration or trimming to provide typical accuracies of degree C at room temperature and degree Cover a full -55 to +150C temperature range. Low cost is assured by trimming and calibration at the water level. The LM35"s low output impedance, linear output, and precise inherent calibration make interfacing to readout or control circuitry especially easy. The device is used with single power supplies, or with plus and minus supplies. As the LM35 device draws only 60 μ A from the supply, it has very low self-heating of less than 0.1°C in still air.

Features

- 1. Calibrated Directly in Celsius (Centigrade)
- 2. Linear + 10-mV/°C Scale Factor
- 3. 0.5°C Ensured Accuracy (at 25°C)
- 4. Rated for Full -55°C to 150°C Range
- 5. Suitable for Remote Applications
- 6. Low-Cost Due to Wafer-Level Trimming
- 7. Operates from 4 V to 30 V
- 8. Less than 60-µA Current Drain
- 9. Low Self-Heating, 0.08°C in Still Air
- 10. Non-Linearity Only ±1/4°C Typical

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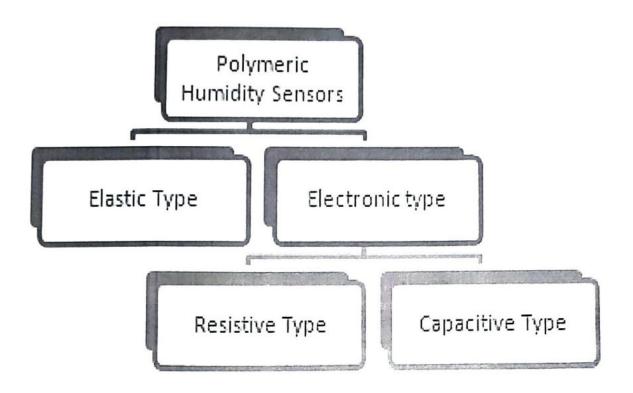
	LM35	LM135	LM135A	LM235	LM335
Local Sensor Accuracy (Max) (+/- C)	0.5	3	1	3	9
Operating Temperature Range (C)	-40 to 110 -55 to 150 0 to 100 0 to 70	-55 to 150	-55 to 150	40 to 125	-40 to 100
Supply Voltage (Min) (V)	4	5	5	5	5
Supply Voltage (Max) (V)	30				
Supply Current (Max) (uA)	114	400	400	400	400
Sensor Gain (mV/Deg C)	10	10	10	10	10
Rating	Military	Military	Military	Military	Military
Shutdown	No	No	No	No	No
Output impedance (Ohm)	0.4	0.5	0.5	0.5	0.6
interface	Analog Output	Analog Output	Analog Output	Analog Output	Analog Output

5.1.2. Humidity Sensor (DHT11):

A Humidity sensor also called a hygrometer, measures and regularly reports the relative humidity in the air. A humidity sensor senses relative humidity. This means that it measures both air temperature and moisture. Relative humidity, expressed as a percent, is the ratio of actual moisture in the air to the highest amount of moisture air at that temperature can hold. The warmer the air is, the more moisture it can hold, so relative humidity changes with fluctuations in temperature. The most common type of humidity sensor uses what is called "capacitive measurement.

This system relies on electrical capacitance, or the ability of two nearby electrical conductors to create an electrical field between them. The sensor itself is composed of two metal plates with a non-conductive polymer film between them. The film collects moisture

Dept. of Computer Science a Engg Annamacnarya Institute of hnology & Sciences, Firupati-5 from the air, and the Moisture causes minute changes in the voltage between the two plates. The changes in voltage are converted into digital readings showing the amount of moisture in the air.



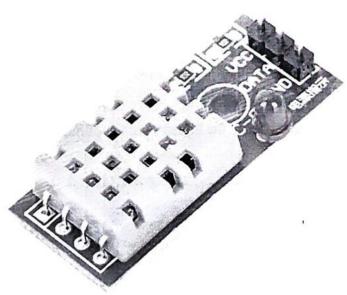


Fig. DHT11 Sensor

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5.1.3. Soil Moisture Sensor:

Although soil water status can be determined by direct (soil sampling) and indirect (soil moisture sensing) methods, direct methods of monitoring soil moisture are not commonly used for irrigation scheduling because they are intrusive and labor intensive and cannot provide immediate feedback. Soil moisture probes can be permanently installed at representative points in an agricultural field to provide repeated moisture readings over time that can be used for irrigation management. Special care is needed when using soil moisture devices in coarse soils since most devices require close contact with the soil matrix that is sometimes difficult to achieve in these soil.

Soil moisture is an important component in the atmospheric water cycle, both on a small agricultural scale and in large-scale modelling of land/atmosphere interaction. Vegetation and crops always depend more on the moisture available at root level than on precipitation occurrence. Water budgeting for irrigation planning, as well as the actual scheduling of irrigation action, requires local soil moisture information. Knowledge of the degree of soil wetness helps to forecast the risk of flash floods, or the occurrence of fog. Soil water content is an expression of the mass or volume of water in the soil, while the soil water potential is an expression of the soil water energy status. The relation between content and potential is not universal and depends on the characteristics of the local soil, such as soil density and soil texture.

Measuring soil moisture is very important in agriculture to help farmer for managing the irrigation system. Soil moisture sensor is one who solves this. This sensor measures the content of water. Soil moisture sensor uses the capacitance to measure the water content of soil. It is easy to use this sensor. Simply insert this rugged sensor into the soil to be tested, and the volumetric water content of the soil is reported in percent. Soil moisture sensors measure the volumetric water content in soil.

The basic technique for measuring soil water content is the gravimetric method. Because this method is based on direct measurements, it is the standard with which all other methods are compared. Unfortunately, gravimetric sampling is destructive, rendering repeat measurements on the same soil sample impossible. Because of the difficulties of accurately

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Since the direct gravimetric measurement of free soil moisture requires removing, drying, and weighting of a sample, soil moisture sensors measure the volumetric water content indirectly by using some other property of the soil, such as electrical resistance, dielectric constant, or interaction with neutrons, as a proxy for the moisture content. The relation between the measured property and soil moisture must be calibrated and may vary depending on environmental factors such as soil type, temperature, or electric conductivity. Reflected microwave radiation is affected by the soil moisture and is used for remote sensing inhydrology and agriculture. Portable probe instruments can be used by farmers or gardeners.

Soil moisture sensors typically refer to sensors that estimate volumetric water content. Another class of sensors measure another property of moisture in soils called water potential; these sensors are usually referred to as soil water potential sensors and include tensiometers and gypsum blocks



FIG 5.1.3 SOIL MOSITURE SENSOR

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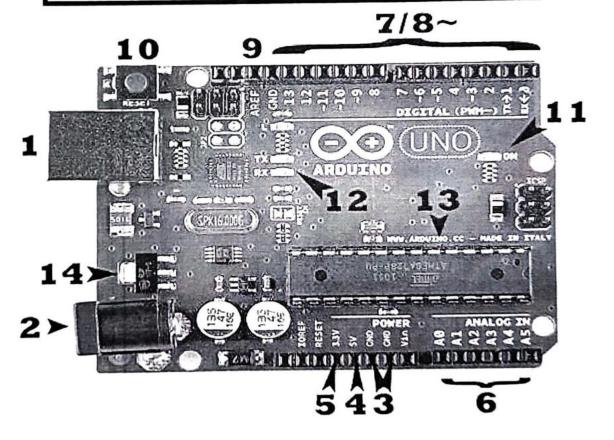
5.1.4. Arudino Micro-Controller:

Arduino is an open-source prototyping platform based on easy-to-use hardware and software. Arduino boards are able to read inputs - light on a sensor, a finger on a button, or a Twitter message - and turn it into an output - activating a motor, turning on an LED, publishing something online. We can tell your board what to do by sending a set of instructions to the microcontroller on the board. To do so we use the Arduino programming language (based on wiring), and the Arduino Software(IDE), based on Processing.

The Arduino Uno can be powered via the USB connection or with an external power supply. The power source is selected automatically. External (non-USB) power can come either from an AC-to-DC adapter (wall-wart) or battery. The adapter can be connected by plugging a 2.1mm center-positive plug into the board's power jack. Leads from a battery can be inserted in the Gnd and Vin pin headers of the POWER connector. The board can operate on an external supply of 6 to 20 volts. If supplied with less than 7V, however, the 5V pin may supply less than five volts and the board may be unstable. If using more than 12V, the voltage regulator may overheat and damage the board. The recommended range is 7 to 12 volts.

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FEATURE	SPECIFICATION
Microcontroller	ATmega328
Operating Voltage	5V
Input Voltage (recommended)	7-12V
Input Voltage (limits)	6-20V
Digital I/O Pins	14 (of which 6 provide PWM output)
Analog Input Pins	6
DC Current per I/O Pin	40 mA
DC Current for 3.3V Pin	50 mA
Flash Memory	32 KB (ATmega328) of which 0.5 KB used by boot loader
SRAM	2 KB (ATmega328)
EEPROM	1 KB (ATmega328)
Clock Speed	16 MHz



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Fig 5.1.4 Ardunio

i. What Does it Do?

The Arduino hardware and software was designed for artists, designers, hobbyists, hackers, newbies, and anyone interested in creating interactive objects or environments. Arduino can interact with buttons, LEDs, motors, speakers, GPS units, cameras, the internet, and even your smart-phone or your TV! This flexibility combined with the fact that the Arduino software is free, the hardware boards are pretty cheap, and both the software and hardware are easy to learn has led to a large community of users who have contributed code and released instructions for a huge variety of Arduino-based projects.

ii. What's on the board?

There are many varieties of Arduino boards (explained on the next page) that can be used for different purposes. Some boards look a bit different from the one below, but most Arduinos have the majority of these components in common

iii. Power (USB / Barrel Jack)

Every Arduino board needs a way to be connected to a power source. The Arduino UNO can be powered from a USB cable coming from your computer or a wall power supply (like this) that is terminated in a barrel jack. In the picture above the USB connection is labeled (1) and the barrel jack is labelled (2). The USB connection is also how you will load code onto your Arduino board.

iv.Pins (5V, 3.3V, GND, Analog, Digital, PWM, AREF)

The pins on your Arduino are the places where you connect wires to construct a circuit (probably in conjuction with a breadboard and some wire. They usually have black plastic "headers" that allow you to just plug a wire right into the board. The Arduino has several different kinds of pins, each of which is labeled on the board and used for different functions. GND (3): Short for "Ground". There are several GND pins on the Arduino, any of which can be used to ground your circuit

v. Reset Button

Just like the original Nintendo, the Arduino has a reset button (10). Pushing it will temporarily connect the reset pin to ground and restart any code that is loaded on the Arduino. This can be very useful if your code doesn't repeat, but you want to test it multiple times.

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Unlike the original Nintendo however, blowing on the Arduino doesn"t usually fix any problems.

vi. Main IC

The black thing with all the metal legs is an IC, or Integrated Circuit (13). Think of it as the brains of our Arduino. The main IC on the Arduino is slightly different from board type to board type, but is usually from the A Tmcga line of IC"s from the ATMEL company. This can be important, as you may need to know the IC type (along with your board type) before loading up a new program from the Arduino software. This information can usually be found in writing on the top side of the IC. If you want to know more about the difference between various IC"s, reading the datasheets is often a good idea.

vii. Voltage Regulator

The voltage regulator (14) is not actually something you can (or should) interact with on the Arduino. But it is potentially useful to know that it is there and what it's for. The voltage regulator does exactly what it says – it controls the amount of voltage that is let into the Arduino board. Think of it as a kind of gatekeeper; it will turn away an extra voltage that might harm the circuit. Of course, it has its limits, so don't hook up your Arduino to anything greater than 20 volts.

viii. The Arduino Family

Arduino makes several different boards, each with different capabilities. In addition, part of being open source hardware means that others can modify and produce derivatives of Arduino boards that provide even more form factors and functionality.

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5.1.5 Water Pump:

The water pump is used to artificially supply water for a particular task. It can be electronically controlled by interfacing it to a microcontroller. It can be triggered ON/OFF by sending signals as required. The process of artificially supplying water is known as pumping. There are many varieties of water pumps used. This project employs the use of a small water pump which is connected to a H-Bridge.

The pumping of water is a basic and practical technique, far more practical than scooping it up with one's hands or lifting it in a hand-held bucket. This is true whether the water is drawn from a fresh source, moved to a needed location, purified, or used for irrigation, washing, or sewage treatment, or for evacuating water from an undesirable location. Regardless of the outcome, the energy required to pump water is an extremely demanding component of water consumption. All other processes depend or benefit either from water descending from a higher elevation or some pressurized plumbing system.



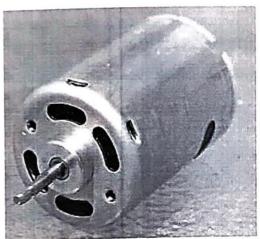
FIG 5.1.5. Water Pump

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5.1.6. Motor Driver:

Because of very low current requirement, these motors can easily operate with small batteries and solar panels. Quiet and smooth operation of this motor makes it a perfect choice for indoor and long hours of operation.

Direction of rotation: Counter-Clockwise when viewing from the output shaft end with positive voltage applied to positive terminal.



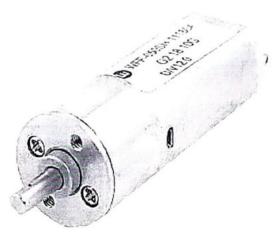


FIG 5.1.6 Motor Driver

Specifications:

Operating range: 3.0 - 12.0

Volts Nominal Voltage: 12 No

Load Speed: 5600 rpm

No Load Current: 0.022 A

Max. Efficiency Speed: 4906 rpm

Max. Efficiency Current: 0.16 -0.23

A Max. Efficiency Torque: 21.1 g.cm

Stall Torque: 170 g.cm

Stall Current: 1.1 - 1.5 A

Body Diameter: 24.4 mm

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5.2 SOFTWARE REQURIMENTS

5.2.1. Arduino Software (IDE):

The open-source Arduino Software (IDE) makes it easy to write code and upload it to the board. It runs on Windows, Mac OS X, and Linux. The environment is written in Java and based on Processing and other open-source software. This software can be used with any Arduino board. For latest software refer to link.

https://www.arduino.cc/en/Main/Software

- Arduino was born at the Ivrea Interaction Design Institute as an easy tool for fast prototyping, aimed at students with or without a background in electronics and programming.
- Arduino is an open-source prototyping platform based on easy-to-use hardware and software.
- Arduino boards are able to read inputs light on a sensor, a finger on a button, or a message and turn it into an output activating a motor, turning on an LED, publishing something online and many more.
- You can tell your board what to do by sending a set of instructions to the microcontroller on the board.
- To do so you use the Arduino programming language (based on Wiring), and the Arduino Software (IDE), based on Processing.
 - Inexpensive Arduino boards are relatively inexpensive compared to other microcontroller platforms.
 - Cross-platform The Arduino Software (IDE) runs on Windows, Macintosh OSX, and Linux operating systems. Most microcontroller systems are limited to Windows.
 - Simple, clear programming environment The Arduino Software (IDE) is easy-to-use for beginners, yet flexible enough for advanced users to take advantage of as well.
 - ❖ Open source and extensible hardware The plans of the Arduino boards are published under a Creative Commons license, so experienced circuit designers can make their own version of the module, extending it and improving it.

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❖ Open source and extensible software - The Arduino software is published as open source tool and the language can be expanded through C++ libraries.

5.2.2. How to use Arduino IDE Tool Steps for using Arduino IDE

Step 1: Get an Arduino board and USB cable:

In this tutorial, we assume you're using an Arduino Uno You also need a standard USB cable (A plug to B plug): the kind you would connect to a USB printer, for example.

Step 2: Download the Arduino environment:

(https://www.arduino.cc/en/Main/Software) Get the latest version from the download page. When the download finishes, unzip the downloaded file. Make sure to preserve the folder structure. Double-click the folder to open it. There should be a few files and subfolders inside.

Step 3: Connect the board

The Arduino Uno, Mega, Duemilanove and Arduino Nano automatically draw power from either the USB connection to the computer or an external power supply. If you're using an Arduino Diecimila, you'll need to make sure that the board is configured to draw power from the USB connection. The power source is selected with a jumper, a small piece of plastic that fits onto two of the three pins between the USB and power jacks. Check that it's on the two pins closest to the USB port. Connect the Arduino board to your computer using the USB cable. The green power LED (labelled PWR) should go on.

Step 4: Install the drivers

Installing drivers for the Arduino Uno or Arduino Mega 2560 with Windows7, Vista, or XP.

Step 5: Launch the Arduino application

Double-click the Arduino application. (Note: if the Arduino software loads in the wrong language, you can change it in the preferences dialog. See the environment page for details

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```
sketch_apr05a | Arduino 1.6.7

File Edit Sketch Tools Help

sketch

void setup() {

// put your setup code here, to run once:

void loop() {

// put your main code here, to run repeatedly:

save
```

FIG 5.2.2

Step 7: Select your board

You'll need to select the entry in the Tools > Board menu that corresponds to your Arduino.

Step 8: Select your serial port

Select the serial device of the Arduino board from the Tools | Serial Port menu. This is likely to be COM3 or higher (COM1 and COM2 are usually reserved for hardware serial ports). To find out, you can disconnect your Arduino board and re-open the menu; the entry that disappears should be the Arduino board. Reconnect the board and select that serial port.

Step 9: Upload the program

Now, simply click the "Upload" button in the environment. Wait a few seconds - you should see the RX and TX leds on the board flashing.

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5.3 BLOCK DIAGRAM

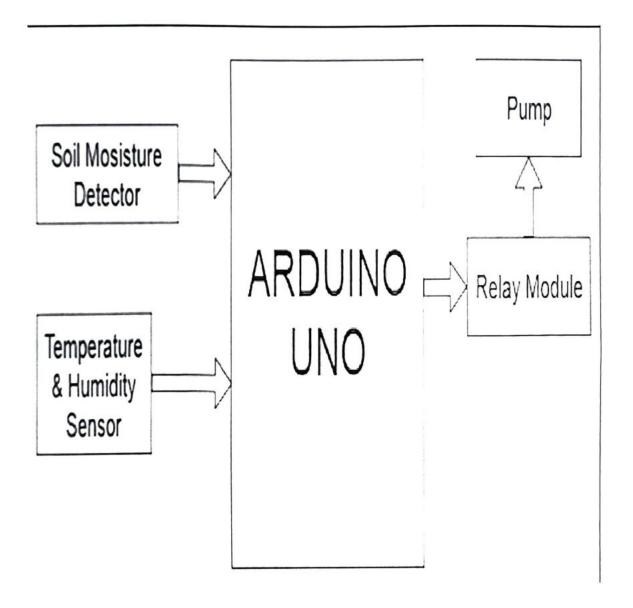


FIG 5.3

Above is the manner in which we are going to implement the circuit. The first part of the block diagram are different sensors and the second part is an LCD Panel and motors for supplying water. The major hardware modules which are needed: Arduino processor, motor, different sensors.

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RESULTS

6.1 OUTPUT SCREENS

6.1.1 Components Connection

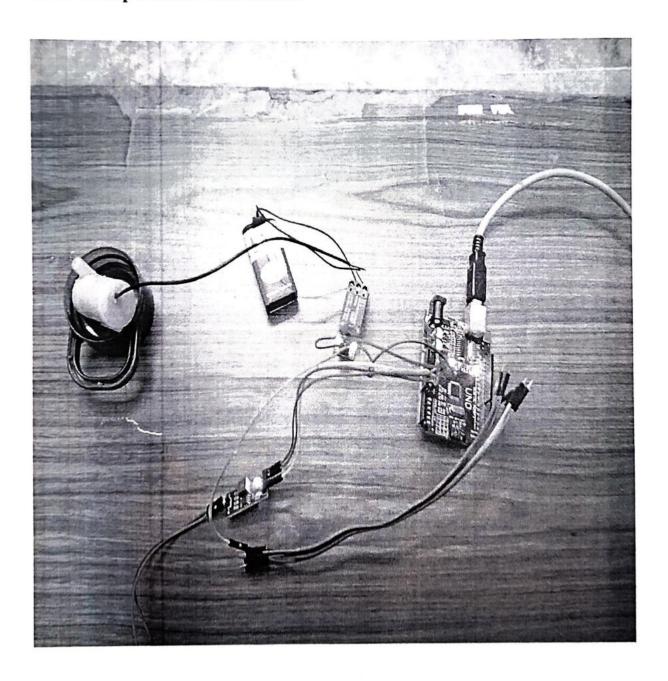


FIG 6.1.1

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6.1.2 Soil Moisture Sensor



FIG 6.1.2

6.1.3 Overall Project Setup

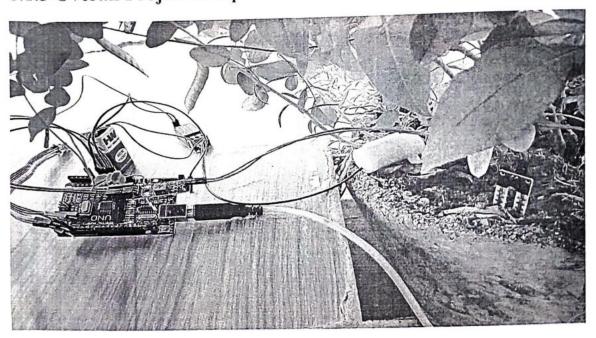


FIG 6.1.3

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6.2 SOURCE CODE

//Smart Irrigation System

```
int sensor_pin= A0;
int output value;
void setup(){
 pinMode(3, OUTPUT);
 Serial.begin(9600);
 Serial.println("Reading from the Moisture sensor...");
 delay(2000);
void loop()
 output value= analogRead (sensor_pin);
```

output_value= map (output_value,550,10,0,100);

Serial.print("Moisture:");

Serial.print(output_value);

Serial.println("%");

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```
if (output_value<0)
{
  delay(1000);
  digitalWrite(3, HIGH);
}
else
{
  delay(1000);
  digitalWrite (3,LOW);
}

delay (1000);</pre>
```

7. CONCLUSION AND FUTURE ENHANCEMENTS

7.1 CONCLUSION

The primary applications for this project are for farmers and gardeners who do not have enough time to water their crops/plants. It also covers those farmers who are wasteful of water during irrigation. As water supplies become scarce and polluted, there is a need to irrigate more efficiently in order to minimize water use and chemical leaching. Recent advances in soil water sensing make the commercial use of this technology possible to automate irrigation management for vegetable production. However, research indicates that different sensors types perform under all conditions with no negative impact on crop yields with reductions in water use range as high as 70% compared to traditional practices.

7.2 FUTURE ENHANCEMENT

The proposed system consist of less hardware as compared to the previous model hence it is compact as compared to the previous system. It is more cost efficient, this claim is made on the fact that the proposed system does not need the heavy and expensive hardware for implementation. This type of automated irrigation system consumes 40-50% less water as compared to the traditional system Ideal growth condition is been provided when small amount of water is been applied over large amount of time. This smart irrigation system extends watering time for plants, and provides ideal growth condition. It saves time and timer delay as per the environmental condition can be added for automatic watering. This smart irrigation system can be adjusted and modified according to the changing environment. It is simple to operate it starts by designing the map of your garden and marking the location of planting.

7.3 REFERENCE

- ✓ http://web.science.mq.edu.au/
- ✓ http://en.wikipedia.org/wiki/
- ✓ http://www.journals.elsevier.com/
- √ http://pages.cs.wisc.edu/
- √ http://cs.stanford.edu/projects/
- ✓ http://www.Drip Irrigation Images.com

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TCOAP CIN: U72200AP2013PTC089436

Batch - 22.

Date: 06 JUNE 2022

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that Mr. J. Jaswanth Kumar studying B.Tech CSE bearing the 19AK5A0502 from ANNAMACHARYA INSTITUTE OF Reg.no: TECHNOLOGY AND SCIENCES TIRUPATI has been accepted to do his project entitled "CRYPTANALYSIS OF AN ANONYMOUS AND TRACEABLE GROUP DATA SHARING IN CLOUD COMPUTING" from 25 April 2022 to 04 June 2022 as part of their academic project curriculum in our Organization.

During this period, he worked on the various areas of projects development/Support and successfully met the objectives that were set at the beginning of the Internship. We found him extremely inquisitive and hardworking. He was very much interested to learn the functions of our core division and also willing to put his best efforts and get into the depth of the subject to understand better.

We wish him all the best in all his future endeavors.

For YoungMinds Technology Solutions Private Limited.

Signatory

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Human Resource Manager

Dept. of Computer Science & Enge Annamacnarya Institute of hnology & Sciences, Tirupati-5

@ Regd, Office: 1", 3" & 4" Floor, AVR Buildings, Opp. S.V. Music College, Balaji Colony, TIRUPATI - 517 501, Andhra Pradosh, INDIA Call @ 0877-2261612 | 9966062884 hr@ymtsindla.com www.ymtsindia.com





Phone : +91-9629829290 Mail ID: info@zypew.com Website: www.zypew.com

11/06/2022

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Ms. K. NAVEENA (Reg. No: 18AK1A0586) who is currently pursuing final year B.Tech CSE in Annamacharya Institute of Technology & Sciences was employed with us as 'Software Engineer - Intern' from April 2022 to June 2022.

> Mr. S. SETHURAMAN HR Manager Zypew Solution.

Dept. of Computer Science a Engs. Annamacnarya Institute of :hnology & Sciences, Tirupati-5

No.101A, Palani Andavar Koil Street, Kosapalayam, Arni, Thiruvannamalai Dist - 632301, TamilNadu, India.



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10-14-582, Above HDFC Bank, Beside CMR Shopping Mall V. V Mahal Ecoc Tirupati - 517501, Chittoor Dist., A.P., India. Mobile: +91 88856 56699, e-mail: ylrinfotech@gmail.com, info@ylrinfotech.com Website: https://ylrinfotech.com

Date 05-06-2022

INTERNSHIP CERTIFICATE

This is to certify that Miss. P. NANDHINI bearing Roll no.: 18AK1A0584, a student of ANNAMACHARYA INSTITUTE OF TECHNOLOGY & SCIENCES (AUTONOMOUS) has completed on internship in PYTHON from 30 - April - 2022 to 05 - June - 2022.

P. NANDHINI has worked as a full stack Python developer. This internship involved or or a Python concepts which was successfully completed by P. NANDHINI. She is well versed in PYHTON, DJANGO FRAME WORK.

We found her to be highly sincere, hardworking, result-oriented & innovative during her tenure with us. We wish her all the best in all her future endeavours.

Your Sincerely.

1. Josephinic

YASESHWINI .
YLR Info tech.

TAT VIR INFOTECH PRIVATE LIMITED

Director

Dept. of Computer Science a Engg.
Annamacharya Institute of the chology & Sciences, Tirupati-5.



Date: 29-06-2022

INTERNSHIP COMPLETION CERTIFICATE

This is to certify that V JAYAKANTH studying B. Tech, CSE bearing the Reg. No. 18AK1A0551 from Annamacharya Institute of Technology and Sciences, Tirupati has been accepted to do his project entitled 'CLOUD BASED DATA ANALYTICS ON BANKING' as part of their academic project curriculum in our Organization.

During the period 02-05-2022 to 29-06-2022, he worked on the various areas of projects development, Support and Successfully met the objectives that were set at the beginning of the Internship. We found him extremely inquisitive and hardworking. He was very much interested to learn the functions of our core division and also willing to put his best efforts and get into the depth of the subject to understand better.

We wish him all the best in all his future endeavors.

For iCloudintel Software Services Pvt. Ltd.

TO ILLUUDINIEL SOFTWARE SERVICES PVI LID

DIRECTOR

Authorized Signatory

Director

Dept. of Compacer Science & English Annamacharya Institute of thrology & Sciences, Firupati-9

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contact: +919886661196 email: reo@icloudintel.com www.icloudintel.com





CERTIFICATE OF INITERNSHIP

THIS IS TO CERTIFY THAT

Dillipriya P

has successfully completed 30 DAYS MACHINE LEARNING MASTERCLASS Organized by ANDHRAPRADESH STATE SKILL DEVELOPEMENT CORPORATION in Association with PANTECH E LEARNING PVT LTD, CHENNAI

> 27/06/2022 DATE:

ALMalayappan Director Pantech e Learning POPLLIE KA

Dr.Ravi Gujjala Chief General Manager (Technical) APSSDC

Prof.Rama Koti Reddy Executive Director APSSDC

N.Bangara Raju Managing Director
APSSDC

Dept. of Computer Science & Engl Annamacnarya Institute of :hnology & Sciences, *irupati-\$



Epnosys Technologies Pvt Ltd

Student Internship Programme 2022

This is to certify that Mr Kasula Yeshwanth has completed his/her interoship programme with EPNOSYS Technologies Pvt. Ltd, Head Quartered in Bangalore, dated from 25 April 2022 to 04 June 2022

As part of this internship programme, he/she has worked on Mobile App Development using Flutter/Dart/Firebase on the following project:

Project Title: Reform "

His/Her Performance and conduct during internship programme has been professional and satisfactory.

On behalf of Epnosys Technologies Pvt Ltd. We wish him/her all the best for his/her future endeavors

Human Resources

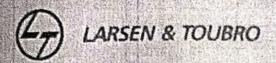
Head of the Institution

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95, Gana Nakshathra, 1" Floor Vinayaka Layout, 10th Cross Beside Domino's Pizza Road, Battarahalli, Bangalore – 560049, India. Phone: +91 7483946332

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June 03, 2022

TO WHOM SO EVER IT MAY CONCERN

This is to certify that Mr. P. Venkat Varma, student of B.Tech. Computer Science and Engineering, Annamacharya Institute of Technology & Sciences, Tirupati was with us in Information Technology for Internship from April 25, 2022 to June 03, 2022 as a part of the academic curriculum.

During this period, we observed the student to be hardworking, sincere, well managed and dedicated in all the assignments.

We wish him very best for the future endeavors.

Yours truly, For L&T Energy-Power

Ritesh Hakkar AGM - Human Resources

> Dept. of Computer Science & Engs Annamacharya Institute of Innology & Sciences, Tirupati-5

Registered Office: L&T.House, N. M. Marg. Ballard Estate, Mumbal - 400001, INDIA CIN: L99999MH1946PLC004768



HARSHA INFORMATICS

Software Training & Development

INTERNSHIP COMPLETION LETTER

This is to certify that Mr. T. Vamsi Krishna Prasad Studying B. Tech (CSE) bearing the Roll No:18AK1A05E7 from "Annamacharya Institute of Technology and Sciences", has successfully completed his project on "PLACEMENT MANAGEMENT SYSTEM USING ANDROID". The project will be done using Android during the period from April 2022 to May 2022 under the guidance and supervision of our developers from Harsha Informatics, Tirupati.

During this period, he worked on the various areas of project development/support and successfully met the objectives that were set at the beginning of the internship. We found his extremely inquisitive and hardworking. He was very much interested to learn the functions of our core division and also willing to put his best efforts and get into depth of the subject to understand it better.

We wish him all the best in all his future endeavours.

Authorized Signature

Bept. of Computer Science a Engl Annamacharya Institute of a thnology & Sciences, Tirupali-