MINI-PROJECT LOGBOOK

GROUP MEMBERS

1. *Devadatta Mahesh Pokharanakar (R-21-0078), TE(CSE)*
2. *Vansh Anil Gandhi (R-21-0086), TE(CSE)*
3. *Suyog Avinash Joshi (R-21-0132), TE(CSE)*
4. *Sumit Ratnakar Rajam (R-21-0294), TE(CSE)*

Guide

Prof. Mahesh A. Jadhav
Assistant Professor,
CSE (AI&ML) Department, FAMT, Ratnagiri

Department of Computer Science and Engineering (AI&ML)

Finolex Academy of Management & Technology, Ratnagiri – 415 639

University of Mumbai

(Academic Year 2023-24)

INSTITUTE VISION & MISSION

VISION:

The academy aspires to nurture students as leaders who are in tune with global trends, equipped with engineering knowledge and practical skills, to excel in creativity and innovation in order to play their part in technological advancement of the nation.

MISSION:

1. To become foremost seat of advanced technical learning as a center of excellence in the region.
2. To offer state of the art facilities and quality education at affordable cost.
3. To inculcate in students the culture of 'Play Hard and Play Fair'.
4. To advance sustainable development in the region through opportunities for entrepreneurship and industry-institute interaction.
5. To create a generation of young professionals who appreciate in all its aspects the necessity of balance between technological advances and traditional values.

COMPUTER SCIENCE AND ENGINEERING (AI&ML) DEPARTMENT

VISION:

The academy aspires to nurture students as leaders who are in tune with global trends, equipped with engineering knowledge and practical skills, to excel in creativity and innovation in order to play their part in technological advancement of the nation.

MISSION:

1. Lead the advancement of computer science, computer engineering, information technology, and cybersecurity through internationally recognized research and education, as well as technology transfer.
2. Provide quality learning experiences through effective classroom practices, active learning styles of teaching, and opportunities for meaningful interactions between students and faculty.
3. To imbibe skills in students to address the need industry.
4. To inculcate professional behavior, strong ethical values, innovative research capabilities and leadership abilities.

PROGRAM EDUCATIONAL OBJECTIVES (PEO's)

PEO1	Students should be able to have successful careers or pursue higher studies to meet future challenges of technological development.
PEO2	Students should be able to pursue analytical and logical skills that will enable them to analyze and design Electrical Systems and its Controls.
PEO3	Students should be able to undertake research and development activities in emerging multidisciplinary fields.
PEO4	Students should be able to achieve professional and interpersonal skills by giving an opportunity as an individual as well as a team.

PROGRAM OUTCOMES (POs)

PO's	**OUTCOMES**
PO1	An ability to apply knowledge of mathematics, science and engineering fundamentals in the field of computing.
PO2	Critically identify, formulate and evaluate emerging topics and the recent development in the field and Provide solution to futuristic engineering problems.
PO3	The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context.
PO4	Ability in requirement gathering, design and implementation of software with computer systems to analyze and interpret the data.
PO5	An ability to use the techniques, logical and analytical skills and modern engineering tools necessary for engineering practice.
PO6	An ability to design a system component or process to meet desired needs within realistic constraints such as economic, environmental, social, cultural and safety issues.
PO7	An ability to understand an impact of engineering knowledge towards society and environment with need to sustainable solutions.
PO8	To inculcate professional ethics.

PO9	An ability to function effectively, individually and in teams to accomplish a common goal.
PO10	An ability to communicate solutions of complex computing problems effectively using reports and presentations to wide range of audiences.
PO11	To instill leadership and managerial skills in multidisciplinary environment.
PO12	Recognition of the need for and an ability to engage in life-long learning.

PROGRAM SPECIFIC OUTCOMES (PSOs)

PSO1	Design an algorithm, component, or process to meet desired needs, within realistic constraints through analytical, logical and problem-solving skills with AIML.
PSO2	Effectively integrate AIML-based solutions into the user environment and Adapt themselves easily to emerging trends in Machine Learning.

STUDENT INFORMATION

Project Title: AquaSense – Water Supply Network Monitoring System

	Student 1	**Student 2**	**Student 3**	**Student 4**
Student ID	R-21-0078	R-21-0086	R-21-0132	R-21-0294
Name	Devadatta Mahesh Pokharanakar	Vansh Anil Gandhi	Suyog Avinash Joshi	Sumit Ratnakar Rajam
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INSTRUCTIONS TO STUDENTS:

1. The logbook must be submitted to the Guide for verification and evaluation of project activities at least once in a week.

2. Log book duly signed by guide must be submitted with project report for evaluation at the end of semester to the department.

DECLARATION

I declare that this project represents my ideas in my own words without plagiarism and wherever others' ideas or words have been included, I have adequately cited and referenced the original sources. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my project work. I promise to maintain minimum 75% attendance, as per the University of Mumbai norms. I understand that any violation of the above will cause for disciplinary action by the Institute.

Yours Faithfully

1. Devadatta Mahesh Pokharanakar
2. Vansh Anil Gandhi
3. Suyog Avinash Joshi
4. Sumit Ratnakar Rajam

(Name, Date & Signature of Students)

Letter of Acceptance

I undersigned, Asst. Prof. Mahesh A. Jadhav working in Computer Science and Engineering (AI & ML) Department, willing to guide the project titled - **"AquaSense – Water Supply Network Monitoring System"** for the Mini-Project- 2 B of Semester VI for the Academic Year 2023-24.

The names of the students are:

1. Devadatta Mahesh Pokharanakar
2. Vansh Anil Gandhi
3. Suyog Avinash Joshi
4. Sumit Ratnakar Rajam

(Project Guide)	**(Mini-Project Coordinator)**	**(HOD-CSE)**

COURSE OUTCOMES

CO No.	COURSE OUTCOME	POs covered	PSOs covered
CO1	Identify problems based on societal /research needs.	PO1, PO2, PO3	PSO1
CO2	Apply Knowledge and skill to solve societal problems in a group.	PO1,PO3	PSO1
CO3	Develop interpersonal skills to work as member of a group or leader.	PO9,PO11	-
CO4	Draw the proper inferences from available results through theoretical/ experimental/simulations.	PO10	PSO1
CO5	Analyze the impact of solutions in societal and environmental context for sustainable development.	PO3, PO7	PSO2
CO6	Use standard norms of engineering practices.	PO5, PO8	PSO2
CO7	Excel in written and oral communication.	PO10	-
CO8	Demonstrate capabilities of self-learning in a group, which leads to lifelong learning.	PO12	-
CO9	Demonstrate project management principles during project work.	PO6	-

CO-PO-PSO MAPPING

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
CO1	2	2	3	0	0	0	0	0	0	0	0	0	0	0	3
CO2	1	0	3	0	0	0	0	0	0	0	0	0	0	0	2
CO3	0	0	0	0	0	0	0	0	3	0	3	0	0	0	0
CO4	0	0	0	0	0	0	0	0	0	3	0	0	0	0	2
CO5	0	0	2	0	0	0	3	0	0	0	0	0	0	0	3
CO6	0	0	0	0	2	0	0	3	0	0	0	0	0	0	3
CO7	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0
CO8	0	0	0	0	0	0	0	0	0	0	0	3	0	0	0
CO9	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0

SCHEDULE FOR MINI PROJECT

Date	Week	Contents	Remark	Guide Sign
30/12/2023	1	Deciding project topic and name		
06/01/2024	2	Literature Review		
30/01/2024	3	Deciding features to implement		
06/02/2024	4	Exploring libraries		
20/02/2024	5	Creating prototype		
27/02/2024	6	Implementing features		
11/03/2024	7	Integrating UI		
29/03/2024	8	Testing, debugging and Finalizing web app		
02/04/2024	9	Preparing report and ppt		

PROGRESS/ATTENDANCE REPORT

Title of the Project:- AquaSense – Water Supply Network Monitoring System	
Group No.	Name of Student 1: Devadatta Mahesh Pokharanakar
	Name of Student 2: Vansh Anil Gandhi
	Name of Student 3: Suyog Avinash Joshi
	Name of Student 4: Sumit Ratnakar Rajam
Name of the Guide: Prof. Mahesh A. Jadhav	

Sr. No	**Date**	**Attendance**				**Progress/Suggestion**	**Mapping**		
		1	2	3	4		CO	PO	PSO
1	30/12/2023					Project topic and name decided.	NA	NA	NA
2	06/01/2024					Literature review performed.	CO1, CO2	PO1, PO2, PO3	PSO1
3	30/01/2024					Decided features to be implemented	CO1	PO2	PSO1
4	06/02/2024					Explored different libraries to be used.	NA	NA	NA
5	20/02/2024					Designed prototype/ outline for the project.	CO4	PO4	PSO1

6	27/02/2024					Implemented all the features.	CO2, CO5	PO1, PO3, PO7	PSO2
7	11/03/2024					Developed and Integrated User Interface with the backend.	CO3, CO6	PO9, PO11	PSO2
8	29/03/2024					Tested application and removed errors.	CO5, CO7	PO3, PO10	PSO2
9	02/04/2024					Preparing for final presentation and submission	CO8, CO9	PO12	NA

Name, Date & Sign of the Guide

REVIEW-I FORM

Group No: 1

Title of Mini-Project: AquaSense – Water Supply Network Monitoring System

Date of Review-I: 17/02/2024

No. of students in project team: 4

Student Mini-Project Performance Analysis (Put Tick as per your Observation)

Excellent (3)	Very Good (2)	Good (1)		
Sr. No.	**Observation**	**(3)**	**(2)**	**(1)**
1	Quality of problem and Clarity			
2	Literature Survey			
3	Innovativeness in solutions			
4	Feasibility Of the Project			
5	Usage of technology			
6	Cost effectiveness and Societal impact			
7	Overall Presentation & Performance			
Comments:				

Project Guide & Panel Members Signature: 1) Prof. Mahesh A. Jadhav

2) Prof. Akshay N. Shetye

3) Prof. Sprooha S. Aathlye

Name, Date & Signature
Project Coordinator

Name, Date & Signature
HOD-Computer Science and Engineering

REVIEW-II FORM

Group No: 1

Title of Mini-Project:- AquaSense – Water Supply Network Monitoring System

Date of Review-II: 23/04/2024

No. of students in project team: 4

Student Mini-Project Performance Analysis (Put Tick as per your Observation)

Excellent (3)	Very Good (2)	Good (1)		
Sr. No.	**Observation**	**(3)**	**(2)**	**(1)**
1	Usage of effective skill sets			
2	Design and Implementation			
3	Testing and Analysis			
4	Use of standard engineering norms			
5	Cost effectiveness and Societal impact			
6	Contribution of an individual member in team			
7	Overall Presentation & Performance			
Comments:				

Project Guide & Panel Members Signature: 1) Prof. Mahesh A. Jadhav

2) Prof. Akshay N. Shetye

3) Prof. Sprooha S. Aathlye

Name, Date & Signature
Project Coordinator

Name, Date & Signature
HOD-Computer Science and Engineering

EXAMINER'S FEEDBACK FORM

Name of External examiner:_____

College of External examiner:_____

Name of Internal examiner:_____

Date of Examination:_____/____/_____ No. of students in project team:

Availability of separate lab for the project: Yes / No

Student Performance Analysis (Put Tick as per your Observation)

Excellent (3) Very Good (2) Good (1)				
Sr. No.	**Observation**	**(3)**	**(2)**	**(1)**
1	Quality of problem and Clarity			
2	Innovativeness in solutions			
3	Cost effectiveness and Societal impact			
4	Full functioning of working model as per stated requirements			
5	Effective use of skill sets			
6	Effective use of standard engineering norms			
7	Contribution of an individual's as member or leader			
8	Clarity in written and oral communication			
9	Overall performance			

- Can the same mini project extend to next semester by adding new objectives/ideas? (Yes/ No)
- If yes, suggest new Innovative Technique/Idea/ objectives related to this project.

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External Examiner **Internal Examiner** **HOD(CSE-AIML)**