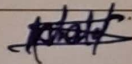
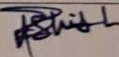
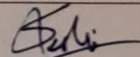
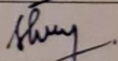
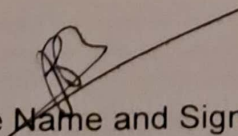




Bansilal Ramnath Agarwal Charitable Trust's
Vishwakarma Institute of Information Technology, Pune-48 (An
Autonomous Institute affiliated to Savitribai Phule Pune University)
Department of Information Technology

Third Year Project Work -II Details
2020 Course

Group Number	:	38			
Project Title	:	COASTAL SAFETY AND TOURISM SUITABILITY APP			
Project Area	:	Full Stack App with API			
Internal Guide	:	Dr.Priya Shelke			
Sponsoring industry	:	N/A			
Group Members		Roll No.	Gr. No.	Name	Sign
		333001	22210460	Sanskriti Avhale	
		333034	22210833	Ashish Mundkar	
		333038	22210284	Sakshi Nagmode	
		333055	22210780	Shrey Ingole	

Internal Guide  Name and Signature



Weekly Planning Sheet

Group Number	: 38
Project Title	: COASTAL SAFETY AND TOURISM SUITABILITY APP

Academic Year: 2023-24

Sem:5

Week No.	Activity Planned	Activity Completion Status	Student Signature	Guide Signature
Week 1	Project topic selection and finalization; problem statement drafting	Complete		
Week 2	Literature review on existing beach safety systems and real-time public safety apps	Complete		
Week 3	Requirements gathering (functional and non-functional) and initial system architecture design	Complete		
Week 4	Finalizing tech stack (Flutter, FastAPI, PostgreSQL, APScheduler) and setup of development environment	Complete		
Week 5	Backend development: API structure design and initial FastAPI setup	Complete		
Week 6	Database design: PostgreSQL schema creation and integration with backend	Complete		
Week 7	Frontend development: Flutter project setup and initial UI wireframes	Complete		
Week 8	Real-time data integration: connecting weather and marine APIs	Complete		
Week 9	Implementation of geolocation features and notification system	Complete		
Week 10	Offline support integration and backend scheduling tasks with APScheduler	Complete		
Week 11	User testing phase 1: Collecting feedback, bug fixes, and performance optimization	Complete		
Week 12	Final integration, end-to-end testing, documentation, and report writing	Complete		

Internal Guide Name and Signature

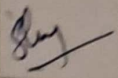


Project Log Book for Actual work done

Group Number	:	38
Project Title	:	COASTAL SAFETY AND SUITABILITY APP

Week No.	Date of Meeting	Activity	Plan for the next week	Remarks by the Guide	Sign of students	Guide Signature
1	16/1/25	Finalized project topic and problem statement.	Start literature review on existing beach safety and real-time apps.			
2	23/1/25	Conducted literature review and summarized key findings.	Gather functional and non-functional requirements.			
3	30/1/25	Collected requirements; drafted initial system architecture.	Finalize tech stack and set up development environment.			
4	6/2/25	Chose Flutter, FastAPI, PostgreSQL; environment setup complete.	Start backend development: FastAPI setup and basic routes.			
5	12/2/25	Designed API structure; set up initial FastAPI backend.	Design database schema and integrate with backend.			
6	20/2/25	Created PostgreSQL database; connected backend with database.	Start frontend development: Flutter project setup and basic UI screens.			
7	27/2/25	Developed basic frontend structure and wireframes in Flutter.	Integrate real-time APIs (weather, marine data) with backend.			
8	6/3/25	Integrated real-time weather and marine data APIs.	Implement geolocation and location-based notifications.			
9	13/3/25	Added geolocation tracking and push notification features.	Implement offline support and background scheduling using APScheduler.			
10	27/3/25	Offline support completed; APScheduler tasks configured.	Conduct first round of user testing and collect feedback.			
11	10/4/25	User testing phase 1 completed; identified and fixed bugs.	Finalize application, perform system integration and performance			



			optimization.			
12	17/4/25	Final integration, system testing, and report preparation.	Project submission and presentation preparation.			


Internal Guide Name and Signature