

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	1 November 2023
Team ID	Team-592258
Project Name	River Water Quality Forecasting

Product Backlog, Sprint Schedule, and Estimation:

Sprint	Functional Requirement (Epic)	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint1	River Water Quality Forecasting using AI	Story 1	As a user, I want to collect historical river water quality data and relevant environmental factors so that the AI model can learn from this data.	3	High	Dhanya Deepika
Sprint2	River Water Quality Forecasting using AI	Story 2	As a user, I want to clean and preprocess the collected data to make it suitable for training the AI model.	5	Low	Nikhitha
Sprint1	River Water Quality Forecasting using AI	Story 3	As a user, I want to develop an AI model using suitable machine learning algorithms to predict river water quality.	8	High	Bhuvaneswari

Sprint	Functional Requirement (Epic)	User Story Number	User Story/Task	Story Points	Priority	Team Members
Sprint1	River Water Quality Forecasting using AI	Story 4	As a user, I want to train the AI model using the preprocessed data to learn patterns and relationships between the data and river water quality.	8	High	Dhanya Deepika
Sprint1	River Water Quality Forecasting using AI	Story 5	As a user, I want to evaluate the performance of the trained model using appropriate metrics to ensure its accuracy and reliability.	5	High	Bhuvaneswari
Sprint2	River Water Quality Forecasting using AI	Story 6	As a user, I want to optimize the model by tuning its parameters to improve its predictive performance.	8	Low	Nikhitha
Sprint1	River Water Quality Forecasting using AI	Story 7	As a user, I want to deploy the optimized model in a test environment to validate its performance in a real-world scenario.	13	High	Dhanya Deepika

Project Tracker, Velocity & Burndown Chart:

Sprint	Total Story Points	Duration (Days)	Sprint Start Date	Sprint End Date	Story Points Completed	Sprint Released Date
Sprint 1	3	14	2023-11-01	2023-11-15	3	2023-11-21
Sprint 2	5	6	2023-11-15	2023-11-21	5	

Velocity:

velocity is a metric that is calculated based on the actual work completed during a sprint. It's not something that can be predicted or planned in advance.

. velocity of my spirit 1 is 3

. velocity of my spirit 2 is 5.

$$AV = \text{sprint duration} / \text{velocity} = (3+5) / 2 = 4.$$

Burndown Chart:

[illegible]