

Project Planning Phase

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

Date	29 October 2022
Team ID	PNT2022TMID16005
Project Name	Efficient Water Quality Analysis & Prediction using Machine Learning
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation:

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Data Preparation	USN-1	Collecting water dataset and pre-processing it	10	High	S Shankar Pirajin T Surya
Sprint-1	Model Building	USN-2	Create a ML model to predict water quality	5	Medium	S Shankar Pirajin T Surya S R Vishal M G Yaswanth
Sprint-1	Model Evaluation	USN-3	Calculate the performance, error rate and complexity of ML model and evaluate the dataset based on the parameter that the dataset consists.	5	Medium	
Sprint-2	Model Deployment	USN-4	As a user, I need to deploy the model and need to find the results.	20	Medium	
Sprint-3	Web page (Form)	USN-5	As a user, I can use the application by enter the water dataset in form to analyze or to predict the results.	20	Medium	S Shankar Pirajin T Surya S R Vishal M G Yaswanth
Sprint-4	Dashboard	USN-6	As a user, I can predict the water quality by click the submit button and the application will show the water is efficient for use or not.	20	High	S R Vishal M G Yaswanth

Project Tracker & Velocity:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date	Story Points Completed	Sprint Release Date
Sprint-1	20	6 Days	23 Oct 2022	28 Oct 2022	20	29 Oct 2022
Sprint-2	20	7 Days	29 Oct 2022	04 Nov 2022	20	05 Nov 2022
Sprint-3	20	7 Days	05 Nov 2022	11 Nov 2022	20	12 Nov 2022
Sprint-4	20	8 Days	12 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Average Velocity = $80 / 20 = 4$ Story Points per Day