Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID38737
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	Ajai B
Sprint-1	Model Building	USN-2	Create a ML model to predict water quality	5	Medium	Ajai B Karan L Harish T Prem Kumar B
Sprint-1	Model Evaluation	USN-3	Calculate the performance, error rate and complexity of ML model	5	Medium	
Sprint-2	Model Deployment	USN-4	Using flask and deploy model finally in IBM cloud using IBM storage and Watson Studio	20	Medium	
Sprint-3	Web page (Form)	USN-5	As a user, I can use the application by enter the water data in form	20	Medium	Ajai B Karan L Harish T Prem Kumar B
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	Ajai B

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	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

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