Project Planning Phase

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

Date	04 November 2022
Team ID	PNT2022TMID21972
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 data-set and pre-processing it	20	High	Vishnu priyan A Siva kumar V
Sprint-2	Model Building	USN-2	Create an ML model to predict water quality	5	Medium	
Sprint-2	Model Evaluation	USN-3	Calculate the performance, error rate, and complexity of the ML model and evaluate the dataset based on the parameter that the dataset consists of.	5	Medium	Thanseer ahamed L Vishal D
Sprint-2	Model Deployment	USN-4	As a user, I need to deploy the model and need to find the results.	10	Medium	
Sprint-3	Web page (Form)	USN-5	As a user, I can use the application by entering the water dataset to analyze or predict the results.	20	Medium	Thanseer ahamed L Siva kumar V
Sprint-4	Dashboard	USN-6	As a user, I can predict the water quality by clicking the submit button and the application will show whether the water is efficient for use or not.	20	High	Vishnu priyan A Vishal D

Project Tracker:

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date	Story Points Completed	Sprint Release Date
Sprint-1	20	5 Days	20 Oct 2022	25 Oct 2022	20	29 Oct 2022
Sprint-2	20	7 Days	26 Oct 2022	01 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	01 Nov 2022	06 Nov 2022	20	10 Nov 2022
Sprint-4	20	6 Days	7 Nov 2022	11 Nov 2022	20	11 Nov 2022

Velocity:

Sprint 1: 1 user stories x 20 story points = 20

Sprint 2: 1 user stories x 20 story points = 20

Sprint 3: 1 user stories x 20 story points = 20 Sprint

4: 1 user stories x 20 story points = 20

Total = 80

The average sprint velocity is80 ÷ 4 =

20.

Burn down Chart:

A burn down chart is a graphical representation of "**WORK LEFT to do versus TIME**". It is the amount of work that has been completed in an epic or sprint and the total work remaining. Burn down charts are used to predict your team's likelihood of completing their work in the time available.