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

Date	2 November 2022
Team ID	PNT2022TMID14644
Project Name	Efficient Water Quality Analysis & Prediction using Machine Learning
Maximum Marks	8 Marks

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint 1	Dataset collection	USN-1	Collect the required data for the water quality prediction	3	High	Anju A, Raghav M
Sprint 1	Data pre-processing	USN-2	Perform data cleaning to optimize the dataset	7	Medium	Anju A, Raghav M
Sprint 2	Training & Building Model , Model evaluation	USN-3	Build the model using regression algorithms to classify the data	10	High	Rashmi R,Divyanjali S

Sprint 3	Application Building	USN-5	Build the html and python code. Run flak app.	7	High	Rashmi R,Divyanjali S
		USN-6	Run Flask app.	3	Medium	Rashmi R,Divyanjali S
Sprint 4	Implementation of the Application	USN-7	Deploy the model on IBM cloud	10	Medium	Anju A, Raghav M

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	10	7 Days	23 Oct 2022	29 Oct 2022	8	29 Oct 2022
Sprint-2	10	7 Days	30 Oct 2022	05 Nov 2022	8	06 Nov 2022
Sprint-3	10	7 Days	07 Nov 2022	13Nov 2022	7	13 Nov 2022
Sprint-4	10	7Days	13 Nov 2022	19 Nov 2022	10	19 Nov 2022

Velocity:
Imagine we have a 7 -day sprint duration, and the velocity of the team is 10 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day).

$$AV = \frac{sprint\ duration}{velocity} \quad \frac{7}{10} = 0.7$$

Burndown Chart: