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

Date	23 October 2022
Team ID	PNT2022TMID51670
Project Name	Efficient Water Quality Analysis & Prediction using Machine Learning
Maximum Marks	8 Marks

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

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Shalima M S
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Berlin Jose J
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Sherlin Femina B
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Godslin Sharmi R
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Abisha J
Sprint-2	Dashboard	USN-6	As a user, I can log into the dashboard by entering username & password	2	High	Shalima M S
Sprint-3	Analysis of water quality	USN-7	As a user, I can access the water quality prediction section	3	High	Berlin Jose J
Sprint-3	Customer queries	USN-8	As a customer care Executive, I can check the customer queries they posted in the website.	2	High	Godslin Sharmi R
Sprint-4	Maintaining website	USN-9	As an administrator, I can maintain website and enhance the online presence.	1	Medium	Sherlin Femina B

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4		USN-10	As an administrator, I can maintain issues in analysing values.	1	Medium	Shalima M S
Sprint-3		USN-11	As an administrator, I can update the website content	2	High	Abisha J
Sprint-4		USN-12	As an administrator, I can improve the website	2	High	Berlin Jose J

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	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:

Imagine we have a 6-day sprint duration, and the velocity of the team is 6(points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = 6/10 = 0.6$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

BURNDOWN CHART