Project Planning Phase

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

Date	30 October 2023
Team ID	NM2023TMID06830
Project Name	Project – Aquatic insights: cogons -powered water portability analysis
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 Member
Sprint-1	User Authentication	USN-1	Users must be able to log in with unique credentials.Role-based access control must be implemented to ensure that users only have access to the features and data relevant to their roles.	5	High	GAYATHRI DEVADHARSHNI
Sprint-2	Data ingestion and Integration	USN-2	The system must support the ingestion of water quality data from various sources, including sensors, databases, and external APIs. Data integration must be performed to ensure data accuracy and consistency.	8	High	SOWMYA MAHALASHMI
Sprint-3	Data Analysis and Reporting	USN-3	The system should provide various analytical tools for water quality assessment, such as trend analysis, statistical analysis, and	10	HIGH	GAYATHRI DEVADHARSHNI

			anomaly detection.Users should be able to generate reports and visualizations to gain insights into water portability.			
Sprint-4	Real -time Mointering	USN-4	The system should support real-time monitoring of water quality parameters and provide alerts for critical deviations. Users should be able to set threshold values for alerts.	5	Medium	SOWMYA MAHALAKSHMI
Sprint-5	Dashboard and Visualization	USN-5	A dashboard should be available to provide an at-a-glance view of water quality data. Customizable visualizations and charts should allow users to explore and interpret data.	6	Medium	GAYATHRI DEVADHARSHNI

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

Sprint	Total Story Pointa	Duration	Sprint Start Date	Sprint End Date(Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date(Actual)
Sprint-1	20	2Days	21 Oct 2023	22 Oct 2023	20	22 Oct 2022
Sprint-2	20	2 Days	23 Oct 2023	24 Oct 2023	20	24 Oct 2023
Sprint-3	20	3 Days	25 Oct 2023	27 Oct 2023	20	24 Oct 2023
Sprint-4,5	20	3 Days	28 Oct 2023	30 Oct 2023	20	24 Oct 2023

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day

Average Velocity (AV) per iteration unit = Total Velocity / Number of Days

In this case, the total velocity is 20 points per sprint, and the sprint duration is 10days.
By applying the formula:

AV per iteration unit = 20 points/10 days = 2 points per day

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 suchas Scrum. However, burn down charts can be applied to any project containing measurable progress over time.