Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18October 2022
Team ID	PNT2022TMID23264
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	3
Sprint-1	Registration	USN-2	As a user, I can register for the application through Gmail	1	High	2
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email or Gmail & password	2	Medium	2
Sprint-2	Dashboard	USN-4	As a user, I can see how to use the application. From the user manual.	1	Low	1
Sprint-3	Evaluation	USN-5	As a user, I can evaluate the water quality using the trained model.	3	High	4
Sprint-3	Outcome	USN-6	As a user, I can view the result of water quality.	3	High	2

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-4	Log Out	USN-7	As a user, I can able to log out from the application.	2	Medium	1
Sprint-4	Customer Care	USN-8	As a user, I should be able to ask my queries regarding the application.	2	Medium	2
Sprint- 4	Updates	USN-9	As a user, I need updates for a good experience in the application	2	Medium	3

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 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)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{4} = 5$$