

Project Planning Phase

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

Date	02 November 2022
Team ID	PNT2022TMID29641
Project Name	Efficient water quality analysis and 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	User Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Abirami A
Sprint-1	User Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application.	1	Medium	Abinaya S
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password.	1	High	Anbarasi C
Sprint-2	Data collection and data pre-processing	USN-1	Download or collect the dataset to perform pre-processing. Data pre-processing formats the data and handle the missing values.	2	High	Hariharan M
Sprint-2	Model Building	USN-1	Calculate the Water Quality Index (WQI) using given formula for every parameter.	2	High	Abirami A
Sprint-3	Training and Testing	USN-2	Training the model using ML algorithms and testing the performance of the model.	2	High	Abinaya S
Sprint-4	Implementing the web page	USN-1	Implementing the web page for collecting the data from user. And it provides the details about quality of water.	2	High	Anbarasi C

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	11 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

$$AV = \frac{\text{SPRINT DURATION}}{\text{VELOCITY}} = \frac{20}{6} = 3.3$$

Burn – Down Chart

