

Project Planning Phase

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

Date	18October 2022
Team ID	PNT2022TMID51007
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	Water dataset is collected and handling of missing data,preprocessing,calculation of Water Quality Index is performed.	8	High	Jaya Dharshini G
Sprint-1	Applcation of Machine Learning algorithms	USN-2	Using Machine learning algorithms .	8	High	Harini M
Sprint-1	Visualize	USN-3	Data visualization	2	High	Vaishanvi V S
Sprint-1	Features	USN-4	Feature Reduction	2	High	Jaya Dharshini G
Sprint-2	Data training and testing	USN-5	Data is trained.	13	Low	Tharini K
Sprint-2	Testing of data	USN-6	Testing the model using appropriate algorithms.	7	High	Harini M
Sprint-3	Model building,evaluation and result.	USN-7	Model building is performed , performance of ML model and error rate is calculated.Water quality is visualized using graphs.	20	High	Jaya Dharshini G
Sprint-4	Login	USN-8	As a user,I can upload the dataset to predict the water quality.	8	Medium	Harini M,Vaishnavi V S
Sprint-4	Dashboard	USN-9	As a user I can visualize the predicted quality using graphs which indicates the efficiency .	12	High	Tharini K

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	5 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:

$AV=80/20=4$ story points per day.