

Project Planning Phase

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

Date	03 November 2022
Team ID	PNT2022TMID35929
Project Name	Real time river water quality monitoring and control system
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	10	High	Swetha V, Evangeline Divya Sagayee G
		USN-2	As a user, I can register for the application through Gmail	10	High	Divyasree K, Brintha J S
Sprint -2	Confirmation	USN-3	As a user, I will receive confirmation email once I have registered for the application	4	Low	Divyasree K, Brintha J S

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
	Login	USN-4	As a user, I can login to the application by entering email and password	6	Medium	Divyasree K, Brintha J S
	IBM Cloud service Access	USN-5	Get access to IBM Cloud services	10	High	Swetha V, Evangeline Divya Sagayee G
Sprint-3	Create a node red service	USN-6	To create a node red service to integrate the IBM Watson along with the web UI.	5	Medium	Swetha V, Evangeline Divya Sagayee G
	Create the IBM Watson IOT and device settings	USN-7	To create the IBM Watson IOT platforms and integrate the microcontroller with it to send the sensed data on cloud.	5	Medium	Divyasree K, Brintha J S
	Developing Python Code	USN-8	Create a python code to sense the physical quantity and store data.	5	High	Divyasree K, Brintha J S
	Create a web UI	USN-9	To create a web UI to access the data from the cloud and display all the parameters.	5	High	Swetha V, Evangeline Divya Sagayee G
Sprint-4	Publish data on the cloud	USN-10	Publish data that is sensed by the microcontroller to the cloud	5	Medium	Divyasree K,

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
						Brintha J S
	Fast SMS service	USN-11	To create and use fast SMS to send alert messages once the parameters like pH, Turbidity and Temperature goes beyond the threshold.	5	Medium	Swetha V , Evangeline Divya Sagayee G
	Testing	USN-12	Testing of project and final deliverables	10		Divyasree K, Brintha J S, Swetha V , Evangeline Divya Sagayee G

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	7 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	14 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov2022

Velocity:

$$AV = \text{sprint duration} / \text{velocity} = 20/6=3.333$$

Burndown Chart:

Balance Work

