

## Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID38782
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.	2	High	Arulkumaran R
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Guhan I
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Ezhilarasan S
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Harish K
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Arulkumaran R
Sprint-1	User Interface	USN-6	As a user, I should not need any pre requisites to handle the UI	1	Medium	Ezhilarasan S
Sprint-1	Dashboard	WUSN-1	As a web user, able to access the inputs from the sensors	2	High	Guhan I
Sprint-1	View Manner	CCE-1	As a customer care, Data visualization must be in good understandable view.	2	High	Harish K
Sprint-1	Taste	CCE-2	As a customer care, I can able to view the composition of water (e.g. Minerals, etc.)	1	High	Guhan I
Sprint-1	Colour Visibility	CCE-3	As a customer care, I should know the water colour	1	High	Ezhilarasan S
Sprint-2	Risk Tolerant	ADMIN-1	Administrator should handle the system, server and take care of the application.	1	High	Arulkumaran R

### 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	30 Oct 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	06 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	07 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)

$$AV = \frac{\text{sprint duration}}{\text{velocity}} = \frac{20}{10} = 2$$

**Burndown Chart:**

