Project Planning Phase

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

Date	**18 October 2022**
Team ID	**PNT2022TMID48179**
Project Name	**Real Time River Water Quality Monitoring 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
Sprint1	Simulation creation	USN-1	Connect Sensors and Arduino with python code	**2**	High	Ragavi Manisha sasika
Sprint2	Software	USN-2	Creating device in the IBM Watson IoT platform, workflow for IoT scenarios using Node-Red	**2**	High	Priyanga Sasika Ananthi
Sprint3	MIT App Inventor	USN-3	Develop an application for the real time river water quality management project using MIT App Inventor	**2**	High	Manisha Ragavi

Sprint4	Dashboard	USN-4	Design the Modules and test the app	**2**	High	Ananthi priyanga
Sprint5	Web UI	USN-5	To make the user to interact with software.	**2**	High	Sasika Ragavi

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	6Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint 2	20	6Days	31 Oct 2022	05 Nov 2022		05 Oct 2022
Sprint 3	20	6Days	07 Nov 2022	12 Nov 2022		12 Oct 2022
Sprint 4	20	6Days	14 Nov 2022	19 Nov 2022		15 Oct 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)

$$AV = \frac{\text{Sprint duration}}{\text{Velocity}} = 20\backslash 10 = 2$$