

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

Team ID	PNT2022TMID01541
Project Name	Real Time River Quality Monitoring and Control System.

Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requireme nt(Epic)	User story Numb err	User Story / Task	Story Points	Priority	Team Membe rs
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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	DIVAKARAN J
	Registration via Facebook	USN-3	As a user, I can register for the application through Facebook	2	Low	
	Registration via Mail ID	USN-4	As a user, I can register for the application through Gmail	2	Medium	
Sprint-2	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	
	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	
	IBM Cloud service Access		Get access to IBM cloud services.	2	High	
Sprint-3	Create the IBM Watson IoT and device Settings	USN-6	To create the IBM Watson IoT Platform and integrate the microcontroller with it, to send the sensed data on Cloud	2	High	SATHISH T, SACHIN R, SURESH KARTHIK J
	Create a node red service	USN-7	To create a node red service to integrate the IBM Watson along with the Web UI	2	medium	SATHISH T, SACHIN R, SURESH KARTHIK J
	Create a Web UI	USN-8	To create a Web UI, to access the data from the cloud And display all parameters.	2	Medium	SATHISH T
	To develop a Python code	USN-9	Create a python code to sense the physical quantity And store data.	2	Medium	DIVAKARAN J

						SACHIN R
	Publish Data to cloud.	USN-10	Publish Data that is sensed by the microcontroller to the Cloud	3	High	SURESHKART HIK J
Sprint-4	Fast-SMS Service	USN-11	Use Fast SMS to send alert messages once the parameters like pH, Turbidity and temperature goes beyond the threshold	3	High	SATHISH T, DIVAKARAN J
	Testing	USN-12	Testing of project and final deliverables	3	Medium	

Project Tracker, Velocity & Burn down 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	7 Days	24 Oct 2022	01 Nov 2022	20	01 Nov 2022
Sprint-2	20	5 Days	02 Nov 2022	07 Nov 2022	20	07 Nov 2022
Sprint-3	20	10 Days	08 Nov 2022	18 Nov 2022	20	18 Nov 2022
Sprint-4	20	9 Days	19 Nov 2022	28 Nov 2022	20	28 Nov 2022

Velocity:

Imagine we have 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:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

Burndown Chart

