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

TEAM ID	PNT2022TMID43374
PROJECT NAME	Project- 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 Requirement (Epic)	User story Numb err	User Story / Task	Story Points	Priority	Team Members	
Sprint-1	Registration	USN-1	As a user, I can register for theapplication by entering my email, password, and confirming My password.	2	HIGH	PREETHI KAVIYA	
Sprint-2	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	HIGH	RAMANYA PRANEETHA	
	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	PREETHI KAVIYA RAMANYA PRANEETHA	
	Create a node red service	USN-7	To create a node red service to integrate the IBM Watsonalong with the Web UI	2	MEDIUM		
	Create a Web UI	USN-8	To create a Web UI, to access the data from the cloud and display all parameters.	2	MEDIUM		
	To develop a Python code	USN-9	Create a python code to sensethe physical quantity and store data	2	MEDIUM		
Sprint-4	Publish Data to cloud.	USN-10	Publish Data that is sensed by the microcontroller to the Cloud	3	HIGH	PREETHI KAVIYA RAMANYA	
	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	PRANEETHA	
	Testing	USN-12	Testing of project and final deliverables	3	MEDIUM		

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	4 Days	24 Oct 2022	27 Oct 2022	20	29 Oct 2022
Sprint-2	20	5 Days	28 Oct 2022	01 Nov 2022	20	04 Nov 2022
Sprint-3	20	8 Days	02 Nov 2022	09 Nov 2022	20	11 Nov 2022
Sprint-4	20	9 Days	10 Nov 2022	18 Nov 2022	20	19 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)

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

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.

