Project Planning Phase

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

Team ID	PNT2022TMID29705
Project Name	Project – Real Time River Water Quality Monitoring And Control System
Maximum Marks	8 Marks

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 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	Mohanraj. D
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Mohanraj. D
Sprint-1		USN-3	Login through the website	2	Low	Mohanraj. D
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Mohanraj .D
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Teena Kumari. M
Sprint-1	Dashboard	USN-6	As a user home icon is available and can access menu	1	High	Santhosh kumar. J
Sprint-1	Option icon	USN-7	Display Data and chart	2	High	Surender. D
Sprint-2	Node red	USN-8	Connection establishment	1	High	Santhosh kumar. J
Sprint-2	Event creation	USN-9	Program each sensor	2	High	Santhosh kumar. J
Sprint-2	Testing	USN-9	Observe the data	2	High	Mohanraj .D

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-3	Circuit wokwi	USN-10	Build circuit in node red	2	High	Mohanraj .D
Sprint-3	Testing	USN-11	Code testing	2	High	Mohanraj .D
Sprint-4	MIT app code	USN-12	Backend coding	2	High	Surender. D
Sprint-4		USN-13	Testing code	2	High	Teena Kumari. M
Sprint-4		USN-14	Testing overall app	2	High	Teena Kumari. M

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	4 Days	01 Nov 2022	04 Nov 2022	20	06 Nov 2022
Sprint-2	20	4 Days	04 Nov 2022	08 Nov 2022	20	11 Nov 2022
Sprint-3	20	4 Days	08 Nov 2022	12 Nov 2022	20	14 Nov 2022
Sprint-4	20	4 Days	12 Nov 2022	19 Nov 2022	20	19 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

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

velocity (AV) per iteration unit (story points per day)
AV=Sprint duration/ velocity =20/4=5

Table:

scrumdown chart			
	sprint1	sprint 2	sprint3	sprint4
Days	0	4	8	12
Base points	20	20	20	20
actual points	20	17	12	10

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.