Project Planning Phase

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

Date	18 October 2022
Team ID	PNT2022TMID22083
Project Name	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 Numb err	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	NAVEEN ANAND
	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	2	Medium	

			Gmail			
Sprint-2	Confirmation	USN-2	As a user, I will receive confirmation email onceIhave registered for the application	1	Hi gh	
	Login	USN-5	As a user, I can log into the applicat ion by entering email & passwor d	1	Hi gh	
	IBM Cloud serviceAccess		Get access to IBM cloud services.	2	Hi gh	
Sprint-3	Create the IBM WatsonIoT and deviceSettings	USN-6	To create the IBM Watson IoT Platform and integratethe microcontroller with it, to send the sensed data on Cloud	2	Hi gh	SENNAPPAN, JASHWANTH, NAVEEN ANAND
	Create a node red service	USN-7	To create a node red service to integrate the IBMWatson along with the Web UI	2	medium	NAGARAJ, SENNAPPA N, JASHWAN TH
	Create a Web UI	USN-8	To create a Web UI, to access the data from the cloud And display all parameters.	2	Medium	NAVEEN ANAND
	To develop a Python code	USN-9	Create a python code to sense the physical quantity And store data.	2	Medium	NAVEEN ANAND,

						NAGARJ
	Publish Data to cloud.	USN-10	Publish Data that is sensed by the microcontroller to the Cloud	3	High	NAVEEN ANAND
Sprint-4	Fast-SMS Service	USN-11	Use Fast SMS to send alert messages once the parameters like pH, Turbidity and temperature goesbeyond the threshold	3	High	JASHWANTH, NAGARAJ, SENNAPPAN
	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	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 suchas Scrum. However, burn down charts can be applied to any project containing measurable progress over time.