Project Planning Phase

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

Date	20October2022
Team ID	PNT2022TMID10965
Project Name	Real Time River Quality Monitoring And Control System.
Maximum Marks	8Marks

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

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 or The application by entring my email, password, and Confirming My password.	2	High	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**
	Registration via Facebook	USN-3	As a user, I can register For the application through Facebook	2	Low	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**
	Registration via Mail ID	USN-4	As a user, I can register For the application through Gmail	2	Medium	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**

Sprint-2	Confirmation	USN-2	As a user, I will receive Confirmation email once I have Registered for the application	1	High	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**
	Login	USN-5	As a user, I can login to The application by entering Email &password	1	High	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**
	IBM Cloud Service Access		Get access to IBM cloud services.	2	High	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**

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 at a on Cloud	2	High	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**
	Create an ordered service	USN-7	To create an ordered service to integrate the IBM Watson along with the Web UI	2	Medium	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**
	Create a Web UI	USN-8	To create a Web UI , to access the Data from the cloud And display all parameters.	2	Medium	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**
	To develop a Python code	USN-9	Create a python code to sense the physical quantity And store data.	2	Medium	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**

	Publish Data to cloud.	USN-10	Publish Data that is sensed by the Microcontroller to the Cloud	3	High	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**
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	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**
	Testing	USN-12	Testing of project and final deliverables	3	High	**ARULJOTHI S BHAVANI B DIVYADHARSHINI R GAYATHRI G**

Project Tracker, Velocity & Burn down Chart:(4Marks)

Sprint	Total story point	Duration	Sprint Start Date	Sprint End Date	Story Points Completed (as on Planned End Date)	Sprint Release Date(Actual)
Sprint-1	20	4Days	24Oct2022	27Oct2022	20	29Oct2022
Sprint-2	20	5Days	28Oct2022	01Nov2022	20	04Nov2022
Sprint-3	20	8Days	02Nov2022	09Nov2022	20	11Nov2022
Sprint-4	20	9Days	10Nov2022	18Nov2022	20	19Nov2022

Velocity:

Imaginewehave10-daysprintduration, and the velocity of the teamis20(pointspersprint).Let'scalculatetheteam'saveragevelocity(AV)per iteration unit (story points per day)

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

Burn down Chart:

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