Project Planning Phase

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

Date	18th October 2022
Team ID	PNT2022TMID15687
Project Name	Real-Time River Water Quality monitoring and control system
Maximum Marks	8 Marks

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

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Create IBM Cloud Services	USN-1	Creation of an IBM Cloud account and registering a device.	2	High	Dheekshitha S, Divya Priya MS, Brinda A, Gejashree T
Sprint-1	Configure the IoT devicein IBM Cloud.	USN-2	Creation and registering of a device	2	High	Dheekshitha S, Divya Priya MS, Brinda A, Gejashree T
Sprint-1	Mobile UI	USN-3	As a user,I can study the river water quality by registering into Mobile app	1	Medium	Brinda A, Divya priya MS
Sprint-1	Secure Login	USN-4	As a user, I can login into App securely and my login credentials are securely stored in database	2	High	Gejashree T, Dheekshitha S
Sprint-1	Alerting Authority	USN-5	As a user, I can alert the authority by sending mail or SMS	2	Medium	Dheekshitha S, Divya Priya MS, Brinda A
Sprint-2	Quick delivery of sensor values	USN-6	As a user, I can get the data values without any latency	3	Medium	Gejashree T, Dheekshitha S
Sprint-3	Create a Node Red Service	USN-7	To create a node red service to integrate the IBMWatson along with the Web UI	2	Low	Brinda A, Divya priya MS

Sprint-3	Create a Web UI	USN-8	To create a Web UI, to access the data from the cloud and display all parameters.	2	Low	Gejashree T, Dheekshitha S
Sprint-3	Generate a link to Interface the node red service with the Web UI/Mobile app	USN-9	Generate Link to interface the services.	3		Dheekshitha S
Sprint-4	Design a Mobile App, todisplay pH, Temperatureand turbidity values	USN-10	To design a Android App using MIT App inventor, todisplay pH, Temperature and turbidity values.	2	Medium	Dheekshitha S, Divya Priya MS, Brinda A, Gejashree T
Sprint-4	Fast-SMS Service	USN-11	For real-time quality monitoring, we use Fast SMS to send alert messages once the parameters like pH, Turbidity and temperature goes beyond the threshold	3	High	Gejashree T, Brinda A
Sprint-4	Product Testing	USN-12	Testing of project and final deliverables	3	High	Dheekshitha S, Divya Priya MS, Brinda A, Gejashree T

Project Tracker & 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	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Burndown Chart: