Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	22 October 2022
Team ID	PNT2022TMID06701
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	Create and configure IBM cloud services (IBM Watson)	USN-1	As a user,I will register in ICTA Academy and create IBM cloud account.	3	High	S.LOGESH
Sprint-1	.	USN-2	As a user, I will access IBM cloud and launch the IBM Watson IOT platform	2	Medium	S.SANJAI
Sprint-1		USN-3	As a user, I can create a device in the IOT IBM Watson platform for simulation .	5	High	G.BHARATHI
Sprint-1		USN-4	As a user, I will get the device ID and device type of my device.	2	Medium	S.MANIGANDAN
Sprint-1		USN-5	As a user, I can simulate the device created.	3	High	S.SANJAI
Sprint-1		USN-6	As a user ,I can get the values of temperature, PH and turbidity. I can create a line chart with my output data .	5	High	S.LOGESH
Sprint-2	Create and access Node- Red	USN-7	As a user ,I can create Node- red by app deployment	4	Low	G.BHARATHI
Sprint-2		USN-8	As a user ,I can get the api key through	4	Low	S.MANIGANDAN

			IBM Watson platform.			
Sprint-2		USN-9	As a user,I can design the flow in Node-Red.	7	High	S.SANJAI

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-10	As a user, I can check for the gauge outputs.	5	Medium	S.LOGESH
Sprint-3	MIT app inventor (Front end design and Back end design)	USN-11	As a user ,I can design the front end in MIT app inventor	5	High	S.SANJAI
Sprint-3		USN-12	As a user ,I can design the back end(blocks) in MIT app inventor	5	High	S.MANIGANDAN
Sprint-3	Simulate ESP32	USN-13	As a user ,I can give connections to ESP32.	3	Low	G.BHARATHI
Sprint-3		USN-14	As a user,I can install DHT Pubsub libraries.	3	Low	S.LOGESH
Sprint-3		USN-15	As a user , I can develop the code for sending the water quality parameters to the cloud	6	High	S.SANJAI
Sprint-3		USN-16	As a user, I can develop a code for connecting the nodes to Wifi.I can connect the sensors with microcontroller.	8	High	S.MANIGANDAN
Sprint-4	Create a Web UI	USN-17	As a user, I can create a Web UI.	6	High	S.SANJAI
Sprint-4		USN-18	As a user,I can check whether I can get the values of the parameters.	4	Medium	S.LOGESH
Sprint-4	Connect with web application	USN-19	As a user,I can connect the Web UI with the mobile application through QR code	3	Low	G.BHARATHI
Sprint-4		USN-20	As a user ,I can get values of the parameters in my mobile application	5	Medium	S.MANIGANDAN
Sprint-4		USN-21	As a user, I can store the values of the parameters in the cloud database	7	High	S.SANJAI
Sprint-4		USN-22	As a user ,I can get the accurate values in my mobile application	5	High	S.LOGESH

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	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	31 Oct 2022
Sprint-3	30	6 Days	07 Nov 2022	12 Nov 2022	30	07 Nov 2022
Sprint-4	30	6 Days	14 Nov 2022	19 Nov 2022	30	14 Nov 2022