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

Date	1 NOVEMBER 2022
Team ID	PNT2022TMID43926
Project Name	IOT ENABLED – REAL TIME WATER QUALITY MONITORING AND CONTROL

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

Sprint	Functional	User Story	User Story / Task	Story Points	Priority	Team
	Requirement (Epic)	Number				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	Vibison U Aruna M
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Vibison U Aruna M
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Vibison U Aruna M
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Aruna M Sindhuja J
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Aruna M Sindhuja J
	Dashboard				High	

Sprint	Requirement (Epic) Number		Story Points	Priority	Team Members	
Sprint -2	User interface experience	USN-6	As a user I need a proper user interface for the project which was contain the graphical representation of received data from the sensors	al		Aruna M Sindhuja J
Sprint -2		USN-7	As a user, I can create a IBM cloud account for the data base which should able to store the data and gather the data from the sensors	1	Medium	Sindhuja J Santhosh Kumar S
Sprint -2		USN-8	As I a user I can create node-red app for providing commands to the sensors in the IBM cloud	2	Medium	Sindhuja J Santhosh Kumar S
Sprint -2		USN-9	As a user, I can create IOT Watson assistant for converting the sensors data to the digital data	2	Low	Vibison U Aruna M Sindhuja J
Sprint -2		USN-10	As a user, I can create a fast to SMS app For providing alert the user which consuming water was not have the quality of consumable	1	High	Vibison U Aruna M Sindhuja J
Sprint -2		USN-11	As I a user, I can make clouding data base in the IBM cloud for storing the data from the sensors for future references	2	High	Vibison U Aruna M Sindhuja J
Sprint -3	App interface creation	USN-12	As I a user, I can use the MIT APP INVERTER for creating the user interface which contains interface between of IBM cloud	1	Medium	Sindhuja J Santhosh Kumar S
Sprint -3		USN-13	As I am a user, I can create a dashboard which was containing graphical representing the sensors measurements	1	Medium	Vibison U Santhosh Kumar S
Sprint -3		USN-14	As I am a user, I can save or delete the previous measurements which was contain the sensor measurements	2	High	Vibison U Santhosh Kumar S
Sprint -3		USN-15	As I am a user, I need the devices was properly insulated and the devices was must be a water resistant	2	High	Vibison U Santhosh Kumar S
Sprint -3		USN-16	As I am a user, I can create the devices which was implemented in the project should be	1	Low	Aruna M Sindhuja J

Sprint	Functional	User Story	User Story / Task	Story Points	Priority	Team
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Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint -4		USN-26	As a user, I need a user interface which was contains HTTP command format and also should contain the web page interface	1	High	Santhoshkumar S Aruna M Sindhuja J
Sprint -4		USN-25	As a user, I can need user interface was always be an eco-friendly which was designed in the user interface	2	Medium	Vibison U Sindhuja J Santhoshkumar S
Sprint -4		USN-24	As a user, I can give the command to the device which was already able understand the command and also perform the function which was mention in the command	2	Medium	Santhoshkumar S Sindhuja J Aruna.M
Sprint -4	User command centre	USN-23	As a admin, I can create the command option in the user interface and able to perform the devices based on the commands	2	High	Aruna M Sindhuja J Vibison U
Sprint -3		USN-22	As a admin, I can make changes in the user interface which was able to understand the measurements was easily understandable by user/industry person	2	High	Sindhuja J Vibison U
Sprint -3		USN-21	As a admin, I can monitor the devices which was sending the correct data or not	1	Low	Santhoshkumar S Aruna M
Sprint -3		USN-20	As a admin, I can manage the devices which was not working not properly I should replace that device	1	Medium	Aruna M Sindhuja J
Sprint -3	User development	USN-19	As a admin, I can manage all the devices and find the drawbacks and also rectify that	1	High	Vibison U Santhoshkumar S
Sprint -3		USN-18	As a user, I can manage the devices which was implemented in the project	1	High	Sindhuja. J Santhosh kumar S
Sprint -3		USN-17	As I am a user, I need a simultaneous data collecting data from the sensors and also save the received data to the cloudant /cloud dashboard	2	Low	Aruna M Vibison U
			maintain properly with the particular interval of time			

Sprint -4	USN-27	As a user, I can make the measurements was also capable to know the web interface	1	Low	Vibison U Aruna M Santhoshkumar
Sprint -4	USN-28	As a user, I need a proper statement of the measurements of the data and also	1	Low	Sindhuja J Aruna M Vibison

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	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

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 velocity (AV) per iteration unit

(story points per day)

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

The average velocity (AV) per iteration unit =3.33

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.

