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

Date	18 October 2022
Team ID	PNT2022TMID04876
Project Name	IOT ENABLED – REAL TIME WATER QUALITY MONITORING AND CONTROL SYSTEM
Maximum Marks	8 Marks

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

Sprint	Functional	User Story	User Story / Task	<b>Story Points</b>	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	Srinivasan ,Sriraam
Sprint-1		USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Sudhan ,Srinish anth
Sprint-2		USN-3	As a user, I can register for the application through Facebook	2	Low	Srinivasan ,Sriraam
Sprint-1		USN-4	As a user, I can register for the application through Gmail	2	Medium	Sudhan ,Srinish anth
Sprint-1	Login	USN-5	As a user, I can log into the application by entering email & password	1	High	Srinivasan ,Sriraam
	Dashboard				High	

Sprint	rint Functional User Story User Story / Task Requirement (Epic) Number		<b>Story Points</b>	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		High	Sudhan ,Srinish anth
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	As a user, I can create a IBM cloud account for the data base which should able to store the data		Srinivasan ,Sriraam
Sprint -2		USN-8	As I a user I can create node-red app for providing commands to the sensors in the IBM cloud	As I a user I can create node-red app for 2 Med providing commands to the sensors in the IBM		Sudhan ,Srinish anth
Sprint -2		USN-9	As a user, I can create IOT Watson assistant for converting the sensors data to the digital data	2	Low	Srinivasan ,Sriraam
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	Sudhan ,Srinish anth
Sprint -2		USN-11	As I a user, I can make cloudant data base in the IBM cloud for storing the data from the sensors for future references	As I a user, I can make cloudant data base in the (BM cloud for storing the data from the sensors)  Hi		Srinivasan ,Sriraam
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	nterface which contains		Sudhan ,Srinish anth
Sprint -3		USN-13	As I am a user, I can create a dashboard which was containing graphical representing the sensors measurements	1	Medium	Srinivasan,Srir aam.
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	Sudhan ,Srinish anth
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			Srinivasan ,Sriraam
Sprint -3		USN-16	As I am a user, I can create the devices which was implemented in the project should be	1	Low	Sudhan ,Srinish anth

Sprint Functional Requirement (Ep		User Story Number	· ·		Priority	Team Members
			maintain properly with the particular interval of time			
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	Srinivasan ,Sriraam
Sprint -3		USN-18	As a user, I can manage the devices which was implemented in the project			Sudhan ,Srinish anth
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	Srinivasan ,Sriraam
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	Sudhan ,Srinish anth
Sprint -3		USN-21	As a admin, I can monitor the devices which was sending the correct data or not	1	Low	Srinivasan ,Sriraam
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	Sudhan ,Srinish anth
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	Srinivasan ,Sriraam
Sprint -4		USN-24			Medium	Sudhan ,Srinish anth
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	Srinivasan ,Sriraam
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	Sudhan ,Srinish anth

Sprint	Functional	User Story	User Story / Task	<b>Story Points</b>	Priority	Team
	Requirement (Epic)	Number				Members
Sprint -4		USN-27	As a user, I can make the measurements was also capable to know the web interface	1	Low	Srinivasan ,Sriraam
Sprint -4		USN-28	As a user, I need a proper statement of the measurements of the data and also	1	Low	Sudhan ,Srinish anth

## 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 burndown 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.

