

Project Planning Phase

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

Date	31 October 2022
Team ID	PNT2022TMID26470
Project Name	Hazardous area monitoring for industrial power plant powered by IoT
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)	Versions	User Story Number	User Story / Task	Reporter	Story points	Priority
Sprint-1	Installation	Version 1	USN-1	As a user, I have to install the IoT device simulators(i.e quick emulator for raspberry pi	Ashika RJ	5	High
Sprint-1			USN-2	As a user, I can configure the Quick Emulator (qemu)	Divakar T	5	Low
Sprint-1	Coding	Version 1	USN-3	I can write the code to generate random temperature and humidity values	Janani N	5	Medium
Sprint-1	Debugging	Version 1	USN-4	I can debug and rewrite the code if there is an error	Amirthavalli M	5	Medium
Sprint-2	Owner	Version 1	USN-5	As a user , I have to buy the cloudant database	Ashika RJ	5	High
Sprint-2	Login	Version 1	USN-6	As a user , I can login to the IBM Watson IoT platform with the help of username and password	Janani N	5	High
Sprint-2	Connection	Version 1	USN-7	I can connect the devices to the IBM Watson IoT platform	Divakar T	5	High

Sprint	Functional Requirement (Epic)	Versions	User Story Number	User Story / Task	Reporter	Story points	Priority
Sprint-2	Installation	Version 2	USN-8	I can place install and place the nodes on Node-RED	Janani N	5	Medium
Sprint-3	Node-RED	Version 2	USN-9	As a user, I can view the data in Node-RED	Amirthavalli M	5	Medium
Sprint-3	APP developing	Version 2	USN-10	I can develop the web applications	Divakar T	5	High
Sprint-3	Downloading	Version 2	USN-11	As user, I can download the web application	Amirthavalli M	5	High
Sprint-3	Login	Version 2	USN-12	As a user , I can login to the web applications	Janani N	5	High
Sprint-4	Admin	Version 2	USN-13	As a user, I can view the temperature and humidity values	Ashika RJ	10	Medium
Sprint-4			USN-14	As a user, I can receive the alert message	Divakar T	10	High

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

Project Tracker :

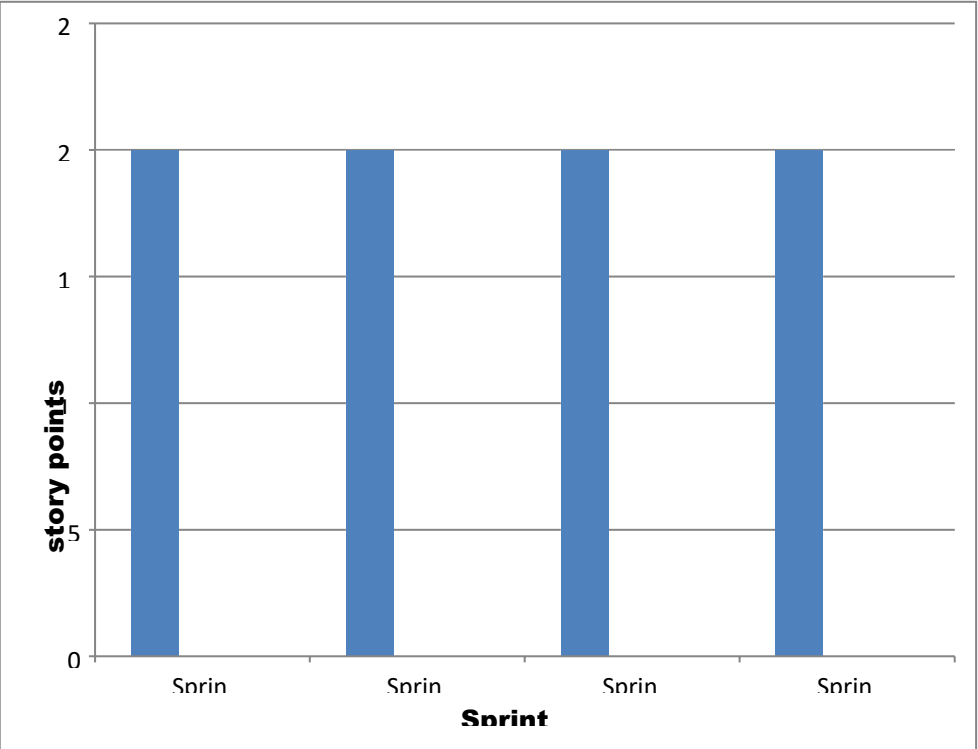
Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	4 Days	01 NOV 2022	04 NOV 2022	20	01 NOV 2022
Sprint-2	20	4 Days	05 NOV 2022	08 NOV 2022		
Sprint-3	20	4 Days	09 NOV 2022	12 NOV 2022		
Sprint-4	20	4 Days	13 NOV 2022	16 NOV 2022		

Velocity:

Calculating average velocity(AV) for 4 sprints

$$\text{velocity} = \frac{\text{Avg Sprint duration}}{4} = 5$$

Velocity Report:



BURN DOWN CHART :

Duration : 16 days

Tasks: 15

Velocity :34 available hours

Days(x-axis)	1	2	3	4	5	6	7	8	9	9	10	11	12	13	14	15	16
Estimated effort remaining(y-axis)	34	32	30	28	26	24	22	20	18	16	14	12	10	8	6	4	2

