Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID54092
Project Name	Gas leakage Monitoring and Alerting System For Industries
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	Login	USN-1	As a user, I can create my account and get the login credentials.	2	High	4
Sprint-1	IBM Cloud	USN-2	As a user, I will receive confirmations and obtain information from the cloud resource	1	High	4
Sprint-2	Software Requirement	USN-3	As a user, I will obtain the application and access the resources available to me.	2	High	2
Sprint-2	Integration with IBM Cloud	USN-4	As a user, I can get my details about gas monitor status at any instant and store in Cloud Database.	2	Medium	2
Sprint-3	Integration of IBM Cloud and Watson Iot platform using Node-Red services	USN-5	As a user, I get details about the past status of the gas cylinders and their location on my device through IoT.	1	High	4
Sprint-3	Dashboard	USN-6	As a user, I get all my TO DO Lists and features at an instant in the dashboard.	2	Medium	4
Sprint-4	Notification	USN-7	As a user, I will get alert messages when any gas leakage is detected through mail and SMS.	2	High	2
Sprint-4	Overall	USN-8	History of gas cylinders' status, Event detection, Notifications, Security actions aftermath are obtained.	2	High	3

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	30 Sept 2022	2 Oct 2022	20	2 Oct 2022
Sprint-2	20	3 Days	3 Oct 2022	7 Oct 2022	20	6 Oct 2022
Sprint-3	20	5 Days	07 Nov 2022	12 Nov 2022	20	25 Oct 2022
Sprint-4	20	4 Days	14 Nov 2022	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)

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

BURNDOWN CHART