

Project Planning Phase

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

Date	22 October 2022
Team ID	PNT2022TMID00378
Project Name	Project - Gas leakage Monitoring and Alerting 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	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)

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

BURNDOWN CHART

