

Project Planning Phase

Project Planning Template (Product Backlog, Sprint Planning, Stories, Storypoints)

Date	18October 2022
Team ID	PNT2022TMID23485
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	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	2	High	Yokesh S Yeswanth V Vignesh B Sudharshun V
Sprint-1	Confirmation	USN-2	As a user, I will receive confirmation email once I have registered for the application	1	High	Yokesh S Yeswanth V Vignesh B Sudharshun V
Sprint-1	Login	USN-3	As a user, I can log into the application by entering email & password	1	High	Yokesh S Yeswanth V Vignesh B Sudharshun V
Sprint-1	Dashboard	USN-4	As a user, I can access all resources in the dashboard	2	Medium	Yokesh S Yeswanth V Sudharshun V
Sprint-1	Monitoring	USN-5	As a user, I can monitor the gas valve.	1	High	Yokesh S Sudharshun V Vignesh B
Sprint-2	Cloud Configure	USN-6	Create and configure the IBM Cloud services which are being used in this project.	2	High	Yokesh S Vignesh B Yeswanth V
Sprint-2		USN-7	Connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials	3	Medium	Yokesh S Yeswanth V Sudharshun V

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-2		USN-8	Develop a python script to publish randomsensor data such as , gas sensor and GSM/GPS to the IBM IoT platform	4	Medium	Yokesh S Yeswanth V Vignesh B Sudharshun V
Sprint-3	Creates and Maintains	USN-9	As an admin, I can create and maintain all information about the gas valve	2	Medium	Yokesh S Yeswanth V Vignesh B Sudharshun V
Sprint-3	Provide Credentials	USN-10	As an admin, I can provide or revoke login credentials to the disaster departments and workers	1	Low	Yokesh S Yeswanth V Vignesh B Sudharshun V
Sprint-4	Alerting	USN-11	As a user, I can alert the information about gas leakage to workers via SMS and Gmail	3	High	Yokesh S Vignesh B Sudharshun V
Sprint-4	Add/Remove/Update Workers	USN-12	As an admin, I can add, remove or update any Worker information into the system.	2	Medium	Yokesh S Yeswanth V Vignesh B Sudharshun V

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)

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

Burndown Chart:

