

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

Date	19 November 2022
Team ID	PNT2022TMID30401
Project Name	Project - 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	Monitor the gas leakage	USN-1	<i>The Industrialist have own industries so the industry owner must take of workers. The workers have family so the industries give security assurance of workers.</i>	2	High	Vijayalakshmi B. Bala Yogesh S. Dhayamoorthi D. Swetha S.
Sprint-2	Avoid From Disaster	USN-2	<i>The gas leakage occur at the time fire service will take care to protect the people from the disaster.</i>	1	High	Vijayalakshmi B. Bala Yogesh S. Dhayamoorthi D. Swetha S.
Sprint-3	Detect the gas	USN-3	<i>We have monitor the gas by 24/7 hrs. To avoid leakage, the industry have quality pipes to transfer the gas and proper maintenance service once in a month. The industry must take care of what are the necessary process to avoid the gas leakage.</i>	2	Low	Vijayalakshmi B. Bala Yogesh S. Dhayamoorthi D. Swetha S.



<i>Sprint-4</i>	<i>The model is trained and tested by sample dataset.</i>	<i>USN-4</i>	<i>The programmer design the model to detect the gas leakage.</i>	<i>2</i>	<i>Medium</i>	<i>Vijayalakshmi B. Bala Yogesh S. Dhayamoorthi D. Swetha S.</i>
<i>Sprint-5</i>	<i>Warning message</i>	<i>USN-5</i>	<i>Incase any gas leakage occur, the device give the alarm and alert message to concerned user within a minute.</i>	<i>1</i>	<i>High</i>	<i>Vijayalakshmi B. Bala Yogesh S. Dhayamoorthi D. Swetha S.</i>

Project Tracker, Velocity & Burndown Chart : (4 Marks)

<i>Sprint</i>	<i>Total Story Points</i>	<i>Duration</i>	<i>Sprint Start Date</i>	<i>Sprint End Date (Planned)</i>	<i>Story Points Completed (as on Planned End Date)</i>	<i>Sprint Release Date (Actual)</i>
<i>Sprint-1</i>	<i>20</i>	<i>6 Days</i>	<i>24 Oct 2022</i>	<i>29 Oct 2022</i>	<i>20</i>	<i>29 Oct 2022</i>
<i>Sprint-2</i>	<i>20</i>	<i>6 Days</i>	<i>31 Oct 2022</i>	<i>05 Nov 2022</i>	<i>20</i>	<i>05 Nov 2022</i>
<i>Sprint-3</i>	<i>20</i>	<i>6 Days</i>	<i>07 Nov 2022</i>	<i>12 Nov 2022</i>	<i>20</i>	<i>12 Nov 2022</i>
<i>Sprint-4</i>	<i>20</i>	<i>6 Days</i>	<i>14 Nov 2022</i>	<i>19 Nov 2022</i>	<i>20</i>	<i>19 Nov 2022</i>
<i>Sprint-5</i>	<i>20</i>	<i>6 Days</i>	<i>14 Nov 2022</i>	<i>19 Nov 2022</i>	<i>20</i>	<i>19 Nov 2022</i>



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)

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

