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

Assignment Date	06 NOVEMBER2022
Team ID	PNT2022TMID49056
Project Name	Gas Leakage Monitoring and Alerting System

## **Product Backlog, Sprint Schedule, and Estimation (4 Marks)**

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Create	US-1	Create the IBM Cloud services which are being used in this project.			Abinaya R Ajitha A
Sprint-1	Configure	US-2	Configure the IBM Cloud services which are being used in completing this project.	4	Medium	Abinaya R Anu A
Sprint-1	Create	US-3	IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform.	5	Medium	Abinaya R Archanadevi S
Sprint-1	Create	US-4	In order to connect the IoT device to the IBM cloud, create a device in the IBM Watson IoT platform and get the device credentials.	5	High	Ajitha A Abinaya R
Sprint-2	Configure	US-1	Configure the connection security and create API keys that are used in the Node-RED service for accessing the IBM IoT Platform.	10	High	Ajitha A Anu A
Sprint-2	Create	US-2	Create a Node-RED service.	10	High	Ajitha A Archanadevi S

Sprint-3	Develop	US-1	Develop a python script to publish random sensor data such as temperature, Flame level and Gas level to the IBM IoT platform	7	High	Anu A Abinaya R
Sprint-3	Configure	US-2	After developing python code, commands are received just print the statements which represent the control of the devices.	5	Medium	Anu A Ajitha A
Sprint-3	Publish	US-3	Publish Data to The IBM Cloud	8	High	Archanadevi S Abinaya R
Sprint-4	Create	US-1	Create Web UI in Node- Red	10	High	Archanadevi S Ajitha A
Sprint-4	Configure	US-2	Configure the Node-RED flow to receive data from the IBM IoT platform and also use cloudant DB nodes to store the received sensor data in the cloudant DB	10	High	Abinaya R Ajitha A Anu A Archanadevi S

## 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	01 Nov 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	01 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	01 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	01 Nov 2022

## **Velocity:**

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