**Project Planning Phase**

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

|  |  |
| --- | --- |
| Date | 29 October 2022 |
| Team ID | PNT2022TMID42716 |
| Project Name | Gas Monitoring Leakage 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 | Model Creation  and Training  (Hazardous gas) |  | Create a model which can identify leakage of hazardous gas in the given image. I also need to test the model and deploy it on IBM Cloud | 8 | High | Gayathri V |
|  | Model Creation  and Training  (humidity) |  | Create a model which can identify the amount of water in the gas | 2 | High | Gayathri V |
| Sprint-2 | Model Creation  and Training  (Hazardous gas) |  | Create a model which can identify Leakage of hazardous gas in the given image and train on  IBM Cloud | 6 | High | Sneka M |
|  | Registration | USN-1 | As a user, I can register by entering my email,  password, and confirming my password or via  O Auth API | 3 | Medium | Sneka M |
|  | Upload page | USN-2 | As a user, I will be redirected to a page where I  can upload my pictures of my gas monitoring leakage | 4 | High | Sindhuja S |
|  | Suggestion results | USN-3 | As a user, I can view the results and then obtain the suggestions provided by the ML model | 4 | High | Sindhuja S |
|  | IBM Watson IoT Platform |  | A base IBM Watson iot Platform must be created as an interface for the ML model | 2 | High | Jeevetha D |
| Sprint-3 | Login | USN-4 | As a user, I can log into the  application by entering email & password | 2 | High | Jeevetha D |
|  | User Dashboard | USN-5 | As a user, I can view the previous results and history of my monitoring system | 3 | Medium | Lavanya P |
|  | Service |  | Node-RED service | 5 | Medium | Lavanya P |
|  | Development |  | Develop the Python Script | 2 | Low | Gayathri V |
| Sprint-4 | Dashboard  (Admin) | USN-6 | As an admin, I can view other user details and  uploads for other purposes | 2 |  | Sneka M |
|  | Dashboard | USN-7 | As a user, I can enter hazardous gas products and then update the details if any | 2 | Low | Sindhuja S |
|  | Development |  | Develop the Web application using Node-RED | 2 | Low | Jeevetha D |

**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 | 10 | 6 Days | 24 Oct 2022 | 29 Oct 2022 | 10 | 29 Oct 2022 |
| Sprint-2 | 15 | 6 Days | 31 Oct 2022 | 05 Nov 2022 | 15 | 06 Nov 2022 |
| Sprint-3 | 15 | 6 Days | 07 Nov 2022 | 12 Nov 2022 | 15 | 13 Nov 2022 |
| Sprint-4 | 12 | 6 Days | 14 Nov 2022 | 19 Nov 2022 | 12 | 20 Nov 2022 |

**NOTE:** **Burndown charts, Velocity to be updated dynamically after end of sprints Roadmap**