**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 14 October 2022 |
| Team ID | PNT2022TMID36136 |
| Project Name | Gas leakage monitoring and alerting system for industries |
| Maximum Marks | 4 Marks |

**Data Flow Diagrams:**

Sensor data

Gas sensor

Temperature sensor

IOT device collecting data

Analyse and show data

Alerts

(Administration, hospitals , Fire station)

Closing doors windows in case of poisonous gases

Turning ON exhaust fan/sprinklers in case of flammable gases

Resulting action

**User Stories**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **User Type** | **Functional**  **Requirement (Epic)** | **User Story**  **Number** | **User Story / Task** | **Acceptance criteria** | **Priority** | **Release** |
| Customer  (Mobile user) | Registration | USN-1 | User can enter into the web application | I can access my account / dashboard | High | Sprint-1 |
|  |  | USN-2 | User can register their credentials like email id and password | I can receive confirmation email & click confirm | High | Sprint-1 |
|  | Login | USN-3 | User can log into the application by entering email & password | I can login to my account | High | Sprint-1 |
|  | Dashboard | USN-4 | User can view the temperature | I can view the data given by the device | High | Sprint-2 |
|  |  | USN-5 | User can view the level of gas | I can view the data given by the device | High | Sprint-2 |
| Customer (Web user) | Usage | USN-1 | User can view the web page and get the information | I can view the data given by the device | High | Sprint-3 |
| Customer | Working | USN-1 | User act according to the alert given by the device | I can get the data work according to it | High | Sprint-3 |
|  |  | USN-2 | User turns ON the exhaust fan/sprinkler when the leakage occurs | I can get the data work according to it | High | Sprint-4 |
| Customer Care Executive | Action | USN-1 | User solve the problems when someone faces any usage issues | I can solve the issues when some one fails to understand the procedure | High | Sprint-4 |
| Administrator | Administration | USN-1 | User stores every information | I can store the gained information | High | Sprint-4 |