**Project Design Phase-II**

**Data Flow Diagram & User Stories**

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| Date | 9,November,2022 |
| Project Name | Project-GAS LEAKAGE MONITORING AND ALERTING SYSTEM |
| Maximum Marks | 4 marks |

**Data Flow Diagrams:**

The classic visual representation of how information moves through a system is a data flow diagram (DFD). A tidy and understandable DFD can graphically represent the appropriate quantity of the system demand. It displays how information enters the system, how it exits, what modifies the information, and where information is stored.

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| Rises Alarm |

**Data Flow Diagram for – GAS LEAKAGE MONITORING AND ALERTING SYSTEM:**

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| Gas Leakage |

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| Buzzer |

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| LCD display |

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| --- |
| Gas Sensor |

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| --- |
| LED Notification |

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| --- |
| Gas Leakage Detected |

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| --- |
| Arduino UNO |

|  |
| --- |
| Taking Precaution Steps |

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| --- |
| Mobile notification |

To user

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
| Customer  (Home user) | Setup | USN-1 | I need the gas leakage detector set up properly because I'm a user. | I can detect the leakage of gas. | High | Sprint-1 |
|  |  | USN-2 | Once the setup is complete, I, the user, may identify the gas leak. | I can detect the leakage of gas. | High | Sprint-1 |
| Customer (Industrial user) |  | USN-1 | I need the gas leakage detector set up properly because I'm a user. | I can detect the leakage of gas. | High | Sprint-1 |
|  |  | USN-2 | I must select high-quality components for my gas leakage detector setup as a user. | Once gas has started to leak, I can correctly and quickly identify it. | High | Sprint-1 |
|  |  | USN-3 | I can test out a Gas demo as a user. setup for a leak detection. | I am able to guarantee employee safety. | Medium | Sprint-1 |
| Customer (Hospital user) |  | USN-1 | I need the gas leakage detector set up properly because I'm a user. | I can detect the leakage of gas. | High | Sprint-1 |
|  |  | USN-2 | As a user, I require the hospital's gas leakage detection to be properly accommodated. | I can guarantee that the hospital patients are comfortable. | High | Sprint-1 |
| Customer Care Executive | Creating Awareness | USN-1 | I can promote the product to individuals as a customer service representative. | I can guarantee that many others will profit. | High | Sprint-1 |
| Administrator | Creating product | USN-1 | I will create the gas leakage detector as an administrator. | I can guarantee precise gas leak detection. | High | Sprint-1 |

**User Stories:**

Use the below template to list all the user stories for the product.