Project Design Phase-II

Solution Requirements (Functional & Non-functional)

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| **Date** | 13 October 2022 |
| **Project Name** | Hazardous area Monitoring For industrial plant  powered by IOT |
| **Maximum Marks** | 4 Marks |

# Functional Requirements:

Following are the functional requirements of the proposed solution.

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| **FR No.** | **Functional Requirement (Epic)** | **Sub Requirement (Story / Sub-Task)** |
| **FR-1** | **Temperature sensors** | To detect the temperature of a particular area |
| **FR-2** | **Beacons** | To broadcast the data |
| **FR-3** | **Smart wearables** | To notify the users about the temperature of the area |
| **FR-4** | **Mobile Application** | To alert the users if the temperature is increased  beyond a certain limit |
| **FR-5** | **Alarm** | To alert the workers in the nearby sectors |
| **FR-6** | **Cloud storage** | To store and access the data |

# Non-functional Requirements:

Following are the non-functional requirements of the proposed solution.

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| **NFR**  **No.** | **Non-Functional Requirement** | **Description** |
| **NFR-1** | **Usability** | Availability of user-friendly wearable devices |
| **NFR-2** | **Security** | It will be safe for the workers by installing the  devices in the industry |
| **NFR-3** | **Reliability** | Data are saved in the secured server so they don’t  provide any loopholes for the hackers. |
| **NFR-4** | **Performance** | No server crash or server down |
| **NFR-5** | **Availability** | Information is available through wearable devices  and mobile application |
| **NFR-6** | **Scalability** | Easily accessible with high reliability. |