**Project Design Phase-II**

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| Date | 11 October2022 |
| TeamID | PNT2022TMID41953 |
| ProjectName | Hazardous area monitoring for industrial plant powered by IOT |
| MaximumMarks | 4Marks |

**Functional Requirements (Functional & Non Functional)**

**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. |