

**Project Design Phase-II**  
**Solution Requirements (Functional & Non-functional)**

<b>Date</b>	13 October 2022
<b>Team ID</b>	PNT2022TMID42278
<b>Project Name</b>	Hazardous area Monitoring For industrial plant powered by IOT
<b>Maximum Marks</b>	4 Marks

**Functional Requirements:**

Following are the functional requirements of the proposed solution.

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

**Non-functional Requirements:**

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

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