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

Date	22 October 2022
Team ID	PNT2022TMID44638
Project Name	Project – Hazardous area monitoring for industrial plant powered by IOT
Maximum Marks	4 Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
FR-1	User Registration	Registration through Form Registration through Gmail Registration through LinkedIN
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3		
FR-4		

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	The industrial area is integrated with smart beacon devices which will be broadcasting the temperature of that particular area. Every person working in those areas will be given smart wearable devices will be acting as beacon scanners. Whenever the person goes near the beacon Scanners he can view the temperature is high , he will receive the alerts to the mobile through SMS using API. Through this wearable device, the data is sent to the cloud and the dashboard, the admins of that particular plant can view the data and take necessary precautions if required.
NFR-2	**Security**	Avoid large scale hazards in industries and save environment & people
NFR-3	**Reliability**	Sell BLE beacons with indoor positions in service are build in indoor position is service as service
NFR-4	**Performance**	Through this, we can monitor the temperature Parameter of the hazardous areas in industrial Plants.

NFR-5	**Availability**	We are using cloud services like IBM Watson IOT platform, node –RED, cloudant DB , web UI and python.
NFR-6	**Scalability**	Each solution is tailored to suit your needs, combining Extronics' expert knowledge of hazardous and industrial environment with the latest technology. The majority of the solutions are developed from the ground by our experienced R&D and engineering teams.