

Project Design Phase-II

Functional Requirements (Functional & Non Functional)

Date	14 NOVEMBER 2022
TeamID	PNT2022TMID14654
ProjectName	Hazardous area monitoring for industrial plant powered by IOT
MaximumMarks	4Marks

Functional Requirements:

Following are the functional requirements of the proposed solution.

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.

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.