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

Date	13 October 2022
Team ID	PNT2022TMID20612
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.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)		
FR-1	User Registration	Registration through FormRegistration through Gmail		
FR-2	User Confirmation	Confirmation via EmailConfirmation via OTP		
FR-3	Cloud Registration	Registration through Gmail		
FR-4	Cloud Confirmation	Confirmation via OTP and Email		
FR-5	User Login	Login using credentials		
FR-6	User testing	Only verify any alert messages		
FR7	User action	 There is any alert message, admin alert the workers 		
FR8	Authentication	Through OTP verificationThrough Strong passwords		
FR9	Administration functions	 Preventing and monitoring each and every second. There is any deviation Admin send an alarm to workers. 		

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description		
NFR-1	Usability	Our solution is intended for wide range of users including industries which work under the hazardous area.		
NFR-2	Security	Security is high because we attached step by step verification code.		
NFR-3	Reliability	Reliability is high because of the continuously tracking to predict the accidents caused due to environmental factors.		
NFR-4	Performance	Regarding the continuous monitoring of the environmental parameters as well as workers body condition, when There is any deviation detected, Send an alert message to admin. Which results in better performance.		
NFR-5	Availability	This application is available to use online and also it will meet all the requirements of the users with better services.		
NFR-6	Scalability	Users can access the application seamlessly without any interrupts of errors and the sensors are used in this framework are low budget functionalities, Hence they are highly scalable		