PROJECT DESIGN PHASE-II

SOLUTION REQUIREMENTS
(Functional & Non-Functional)

HAZARDOUS AREA MONITORING FOR INDUSTRIAL PLANT POWERED BY IOT

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FUNCTIONAL REQUIREMENTS:

Following are functional requirements of the proposed solution

FR NO	FUNCTIONAL REQUIREMENT (Epic)	SUB REQUIREMENT (Story/Sub-Task)
FR-1	**Registration**	Registration of the user using their credentials
FR-2	**Confirmation**	Confirmation of the details using the verification link
FR-3	**User guidelines**	General guidelines for the user useful for the process initialization
FR-4	**Sensing parameters**	The smart beacon devices must be able to sense the parameters of the area
FR-5	**Location Identification**	The smart devices must be able to detect the location of the workers in the area precisely.

FR-6	**Displaying of data**	The wearable display should display the temperature of the working area to the concerned workers
FR-7	**SMS Intimation**	If the observed data for an area is found to be risky for the workers then they shall be notified via SMS
FR-8	**Data Sync**	The data has to be shared and synced to both the workers and the admin through cloud
FR-9	**Admin**	The admin should be informed about the alert through the dashboard presented to him

NON-FUNCTIONAL REQUIREMENTS:

Following are non-functional requirement of the proposed solution

NFR NO	NON FUNCTIONAL REQUIREMENTS	DESCRIPTION
NFR-1	**Versatility**	The device has to be comfortable to wear and the sensors should sense and intimate the people promptly
NFR-2	**Dependability**	The device should function properly for a predetermined lifetime and should notify people in case of any fault

NFR-3	**Security**	The data that is shared and stored in the cloud should be secured from various attacks and malwares.
NFR-4	**Productivity**	The sensitivity of the products should be optimal and should update data spontaneously
NFR-5	**Accessibility**	The system should meet all possible demands of the user with ease of access for better functioning of the system
NFR-6	**Adaptability**	The product should entertain easy modification of the system if required as per user demands