

TEAM I'D: PNT2022TMID38195

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

Date	22nd October 2022
Project Name	Project - IOT Based Safety Gadget for child Safety Monitoring and Notification
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	Variable Sensitivity	The device should be attractive to the child (colorful design).
FR-2	Secure personal information/Privacy	Use simple and easy-to-understand language without any unnecessary jargon to prevent confusion.
FR-3	Notification System	Parents want to be notified when their child is too far away from them.
FR-4	Early Alarm	The alarm sensitivity should be adjusted by the parent; this is preferred to a fixed alarm sensitivity setting.

FR-5	Local Ranging/Positioning	GPS is a common and available technology; however it is unreliable prefer to be guided by either voice or map navigation. Generally a map and should not be expected to work for indoor applications.
FR-6	Voice Navigation	Interviewees was preferred however two users preferred a car-like voice navigation.

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	How easy is it for a customer to use the system?
NFR-2	Security	How well are the system and its data protected against attacks?
NFR-3	Reliability	How often does the system experience critical failure? Eg : the system must perform without failure in 95 percent of use case
NFR-4	Performance	How fast does the system return results?
NFR-5	Availability	How is the user availability time compared to downtime?