

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

Date	20 October 2022
Team ID	PNT2022TMID00858
Project Name	IOT-BASED BABY MONITORING SYSTEM SURVEY USING THE RASPBERRY Pi
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 website Registration through app
FR-2	User Confirmation	Confirmation via Email Confirmation via OTP
FR-3	User login	Configuring the user ID and password
FR-4	App permission	Give the app access to your location, contacts, and other information.
FR-5	Interface with the Device	Use the device ID to connect the device with the registered app.
FR-6	Setting Geo-location	Establishing the Geo-location region on the map.
FR-7	Database	The cloud is used to store location history. accessible via the dashboard.
FR-8	Tracking location	Using an application to locate someone. using a website to locate someone.

Non-functional Requirements:

Following are the non-functional requirements of the proposed solution

FR No.	Non-Functional Requirement	Description
NFR-1	Usability	The gadget and its apps are simple to use. The gadget is lightweight and simple to operate.
NFR-2	Security	Only the user has the authority to provide authorization for certain types of information. Only the user is able to access location data.
NFR-3	Reliability	If any issues are discovered with the gadget, an update will be sent.
NFR-4	Performance	When there is no network, the device's performance suffers. No cross-user interference .The monitoring of locations will be precise.
NFR-5	Availability	The device won't be able to function for a while if there is an upgrade.
NFR-6	Scalability	One device may be watched over by two individuals.