

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

<i>Date</i>	<i>22 October 2022</i>
<i>Team ID</i>	<i>PNT2022TMID52173</i>
<i>Project Name</i>	<i>IoT Based Safety Gadget for Child Safety Monitoring and Notification</i>
<i>Maximum Marks</i>	<i>4 Marks</i>

Functional Requirements:

Following are the functional requirements of the proposed solution.

FR No.	Functional Requirement (Epic)	Sub Requirement (Story / Sub-Task)
<i>FR-1</i>	<i>User Registration</i>	<i>Registration through Form Registration through Gmail Registration through Mobile NumberRegistration in person</i>
<i>FR-2</i>	<i>User Confirmation</i>	<i>Confirmation via Email Confirmation via OTP</i>
<i>FR-3</i>	<i>Notification</i>	<i>Email and SMS message</i>
<i>FR-4</i>	<i>User Interface</i>	<i>Mobile app for parents Web interface for registrations,Recording,Tracking,Information and payment</i>

Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
<i>NFR-1</i>	<i>Usability</i>	<i>To find out whether the child crosses the geofence or not,upon which the parent or guardian of the child gets an alert via notification.</i>
<i>NFR-2</i>	<i>Security</i>	<i>Database security must meet HIPAA requirements.More security protocols and measures are also in cards.</i>

NFR-3	Reliability	<i>Incase of server crash data gets backed up beforehand.Web Page gets automatically logged out unless password has been saved in the Google account.</i>
NFR-4	Performance	<i>Internet strength plays a major role for transactions.Speed per transactions depends on the internet strength.</i>
NFR-5	Availability	<i>Available all around the globe,and requires an internet source.</i>
NFR-6	Scalability	<i>Short term scalability where memory is stored and erased,can be scaled to keeps records in the future</i>