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

Team ID	PT2022TMID11856
Project Name	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.

No.	Functional Requirement	Sub Requirement (Story / Sub-Task)
	(Epic)	
1	Database	<ul> <li>✓ Stored in cloud for seamless connectivity.</li> <li>✓ Parents and kids link with the distance and thelocation values obtained from the mobile devices are stored here.</li> <li>✓ The values include parent id, kid id, distance, longitude, latitude etc.</li> </ul>
2	Server	<ul> <li>✓ It connects the database and the front endapplication.</li> <li>✓ The backend server has been implemented to run as a service and is deployed in an IBM cloud instance.</li> <li>✓ The backend server has been implemented to run as a service and is deployed in an IBM cloud instance.</li> </ul>
3	Battery Life	✓ If the child or parent forgets to charge the device for a whole day then also the device will work. That's why we aim to make this device Blast the whole day with one charge. ✓ It should be long-lasting.
4	Location History	<ul> <li>✓ Location history will help to track the child's activity so that they aren't will be updated.         Location history will be there for 30days.</li> <li>✓ For example if the child gets missing with the help of location history they aren't can track down their child's activity and also can find their child.</li> </ul>

## **Non-functional Requirements:**

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

No.	Non-Functional Requirement	Description
1	Usability	✓ Device have GSM can help to inform the parents or relatives about the current situations of the child by deliver the message immediately to save the child.
2	Security	<ul> <li>✓ Make children parents more         assure abouttheir kid's security,         we have a feature in our device         called Geo- Fence.</li> <li>✓ Whenever your child crosses         that specificarea, you will get an         instant notification on         your phone.</li> </ul>
3	Reliability	<ul><li>✓ Portable</li><li>✓ Easy to use</li><li>✓ Flexibility</li></ul>
4	Performance	<ul> <li>✓ Create a Child tracker         which helps theparents         with continuously         monitoring the child's         location.</li> <li>✓ The notification will be sent         according tothe Child's location         to their parents orcaretakers.</li> <li>✓ The entire location data will         be stored inthe database.</li> </ul>
5	Availability	<ul><li>✓ Track your child even in a crowd</li><li>✓ Get travel details of kids at any</li><li>time Know the current location</li></ul>
6	Scalability	<ul> <li>✓ Gadget ensures the safety         <ul> <li>and tracking of the</li> <li>children.</li> <li>✓ Parents need not worry</li> <li>about theirchildren.</li> </ul> </li> </ul>