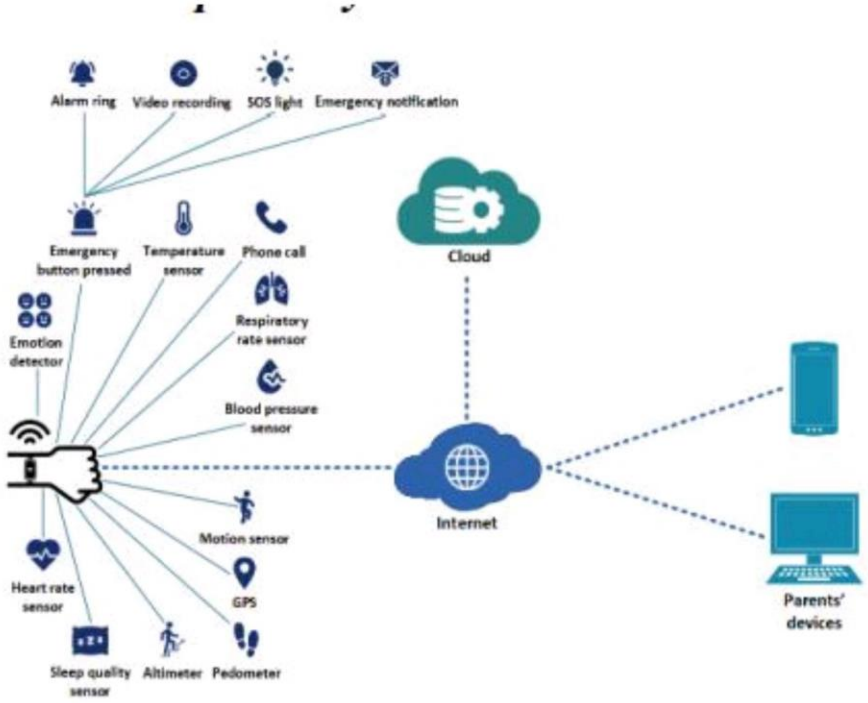
Project Design Phase-II
Solution Requirements (Functional & Non-functional)

Date	31 October 2022
Team ID	PNT2022TMID12840
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring & 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	Communicate and exchange information to provide server for user	To monitor the children's location in house or public places. Alert the parent if the child misuse the wearable device through SMS.
FR-2	Continuous requirement	Create a geofence around child location. Continuously Monitoring the child location.
FR-3	User Requirement	Easily upgrade to any environments. Easy to handle. Gives more accuracy. Low more consumption.
FR-4	Mandatory	The system will send the detail of location information the system via 3G network or Wi-Fi. Accuracy of location is important. The system should be scalable. The entire location data will be stored.
FR-5	Testing set the geofence.	The device is kept together with the children. Create geofence around the child location in school or parks, if child crosses the geofence notify to the parents Notifications sent in the forms of SMS.
FR-6	Architecture	(Image)



Non-functional Requirements:

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

FR No.	Non-Functional Requirement	Description
NFR-1	**Usability**	High usability of user experience design for user, Which is usable for finding the children if they lost.
NFR-2	**Security**	The system can accessed by authorized persons only.
NFR-3	**Reliability**	Monitoring the location continuously and easy to upgrade the system .
NFR-4	**Performance**	The performance should be more effective and efficient. The location data will be stored.
NFR-5	**Availability**	If we are going to upgrade the system or make any changes in the the system it will not take much time to recovery.
NFR-6	**Scalability**	The website traffic limit must be scalable enough to support users at a time.