

Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	03October 2022	
Team ID	PNP2022TMID46762	
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification	
Maximum Marks	4 Marks	

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

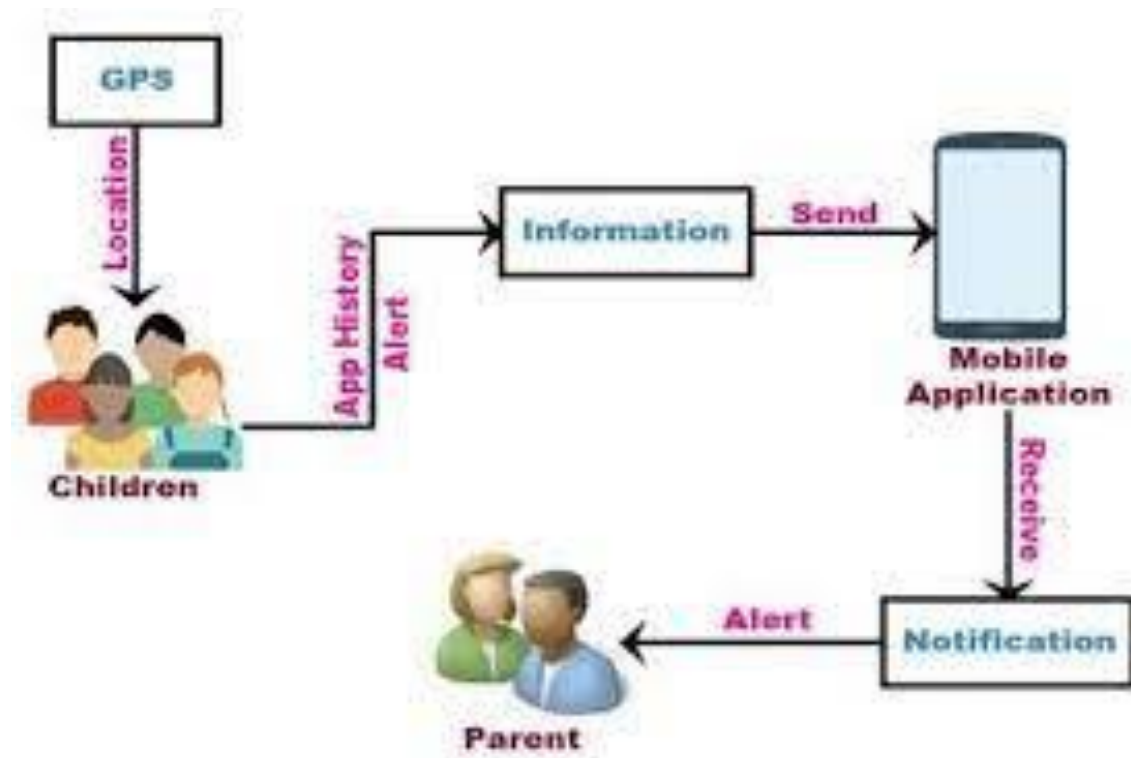


Table-1 : Components & Technologies

S.No	Component	Description	Technology
1.	Touch sensor	Touch sensor detects touch or near proximity without relying on physical contact. Touch sensors are making their way into many applications like mobile phones, remote controls, control panels, etc. Present day touch sensors can replace mechanical buttons and switches.	Sensors are build on the glass itself.
2.	Electric shock unit	electric shock devices which can be used as weapons against the human body. Stun guns cause temporary incapacitation of the body whereas the other devices	Not yet determined
3.	GSM module	(GSM) module is designed for wireless radiation monitoring through Short Messaging Service (SMS). This module is able to receive serial data from radiation monitoring devices	They use SIMs to identify the device to the network
4.	GPS module	GPS technology is now in everything from cell phones and wristwatches to bulldozers, shipping containers, and ATM's.	Used to calculate elevation, velocity,location.
5.	WIFI module	With Wi-Fi modules, utilities and service providers, as well as their customers, can communicate directly with water heaters, air conditioning systems, thermostats and other electrical products in the home.	Not yet determined
6.	Micro controller	Microcontrollers are used in automatically controlled products and devices, such as automobile engine control systems, implantable medical devices, remote controls, office machines, appliances, power tools, toys and other embedded systems.	Specific operations are used in embedded system

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The proposed solution being framed in the form of an android application providing the end user and easy surveillance for the children.(preferably users are parents)	UI/UX design development
2.	Security Implementations	The developed application should be accessible in the way it can only respond to the commands of the relevant user	Encryption IAM controls
3.	Scalable Architecture	The app format comes the way easier to handle and operate	Not yet determined
4.	Availability	The development solution tends to be available at market in any time.	Not yet determined
5.	Performance	Highly proper and betterment functionalities are to be ensured in the designed solutions.	Not yet determined