

## Project Design Phase-II

# TECHNOLOGY STACK

Date	18 October 2022
Team ID	PNT2022TMID33515
Project Name	IoT Based Safety Gadget for Child Safety Monitoring & Notification

S.NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	User Interface	Crime rates are increasing day by day in our country	IOT
2.	Application logic-1	Security level in a monitoring system	Embedded system
3.	Application logic-2	A mobile tracking application	Sensor technology
4.	Application logic-3	Smart GPS child safety device in this application	Sensor technology
5.	Database	To help parents keep track of their children's whereabouts	IOT
6.	Cloud Database	Child's account can be edited by parents	Sensor technology
7.	File Storage	The program will have a route history trace	IOT
8.	External API-2	Location history will be stored in the stored	Embedded System
9.	External API-1	All the notification and location will be there in this application	IOT

S.NO	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1.	Open-Source Frameworks	Easy to manage user interface via a web server with Google maps	IOT
2.	Security Implementations	Automatically monitor the child in real time using IOT with help of GPS	Sensor Technology
3.	Scalable Architecture	Low cost design and implementation that allows parents to track movement	Embedded System
4.	Availability	Location and detection value from GPS is used to detect the child's status	IOT
5.	Performance	Message and notification is sent to the guardians	Embedded System