

Project Design Phase-I

Proposed Solution

Team ID	PNT2022TMID37548
Project Name	IOT Based Safety Gadget For Child Safety Monitoring & Notification

Proposed Solution:

S.No	Parameter	Description
1.	Problem Statement (Problem to be solved)	<ul style="list-style-type: none">➤ Increasing of child kidnapping and child abuse➤ We proposes solution for the problem with a help of device that the child would wear➤ The parents or guardian would also be able to track the child location in real-time through a mobile app➤ Identify and manage a child's location, safety Security and authentication in order to intimate parents about their child's status.
2.	Idea / Solution description	<ul style="list-style-type: none">➤ The tracker would be linked to a parent's Smartphone, and would send an alert if the child strays too far from a designated safe area➤ The system could also include a sensor that would detect if a child has fallen, and would send an alert to the parent's phone➤ A system could include a GPS tracker that is worn by the child➤ Solution which will try to overcome the disadvantages of the existing systems and aims at providing security to children .

3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ➤ A new child safety monitoring system that uses GPS tracking to monitor the location of children could be a useful novelty for parents ➤ This system could be used to set boundaries for children, and parents would be notified if their child crossed a boundary ➤ The system could also be used to track the child's location in case of an emergency ➤ The systems that use a combination of GPS and an app to provide more comprehensive tracking ➤ A mobile app is designed for child safety where safe locations from the victim's current location will be shown on the map so that parents can reach the safe from their current location; ➤ Additional features such as sending messages Audio messages are part of the proposed design
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ➤ One of the most obvious impacts is that it can help to keep children safe from harm ➤ This can help to prevent accidents and dangerous situations from occurring ➤ Another potential impact of a child safety monitoring system is that it can help to reduce crime ➤ The main purpose of this app is to provide a safe platform through Android phones which provides consumer valuable information ➤ Finally, a child safety monitoring system can also help to build trust between parents and children ➤ By being able to see where their children are and what they are doing, parents can feel more confident that their children are safe and not getting into trouble ➤ Overall customer satisfaction is high
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> ➤ The system is designed to work with the Revenue module family safety monitoring system ➤ The systems are compatible and can be used to provide a complete solution for family safety ➤ IOT service providers will use their own IOT Business models ,architectures and operating platforms

		<ul style="list-style-type: none"> ➤ The device could cost around Rs.4000 to 5000 only and its affordable price to buy for all kind of families
6.	Scalability of the Solution	<ul style="list-style-type: none"> ➤ As the number of children using the device increases, the number of sensors required to monitor them also increases ➤ The amount of data that needs to be processed and stored also increases ➤ A scalable solution for child monitoring would need to be able to handle an increase in the number of users and sensors, as well as the data generated by them ➤ The ability to go from prototype to production in a seamless way.