

Project Design Phase-I
Proposed Solution Template

| | |
|---------------|--|
| Date | 19September 2022 |
| Team ID | PNT2022TMID09825 |
| Project Name | Child Safety Monitoring and Notification |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

Project team shall fill the following information in proposed solution template.

| S. No. | Parameter | Description |
|--------|---|---|
| 1. | Problem Statement (Problem to be solved) | In order to reach the objectives set out for this paper, Section II provides a detailed problem description, which includes an overview of approaches . This paper introduces the main concepts of establishing a IOT based safety gadget for child safety Monitoring & Notification. |
| 2. | Idea/Solution description | Child tracker helps the parents in continuously monitoring the child's location. They can simply leave their children in school or parks and create a geo-fence around the particular location. By continuously checking the child's location notifications will be generated if the child crosses the geo-fence. Notifications will be sent according to the child's location to their parents or caretakers. The entire location data will be stored in the database. |
| 3. | Novelty / Uniqueness | The novelty of the work is that the system automatically alerts the parent/caretaker by sending SMS, when immediate attention is required for the child during emergency. Based on IOT, RFID, and cloud computing technologies, our project is designed to guarantee the children security and protection . |

| | | |
|----|--------------------------------------|---|
| 4. | Social impact /Customer Satisfaction | <p>Basically In our society, children cannot complain about abuse which they face in their daily life to their parents. They can't even realize what actually happens to them at their age. It is also difficult for parents to identify if their children are being abused. Since to prevent children from being attacked, an autonomous real time monitoring system is necessary for every child out there.</p> <p>This paper presents a system to monitor pick-up/drop off of school children to enhance the safety of children during daily transportation from and to school. The system consists of two units, a bus unit and a school unit. The bus unit, the system is used to detect when a child boards or leaves the bus. The information is communicated to the school unit that identifies which of the children did not board or leave the bus. It issues an alert message accordingly.</p> <p>That will help the children to be safe from abuses and difficulties which children face daily in their life and also parents to monitor their children, that will keep them stress free.</p> |
| 5. | Business Model (Revenue Model) | <p>A child tracking system is an efficient tracking system, designed for tracking the movement of your child from any location, at any point.</p> <p>Child safety is becoming an increasingly important issue. Parents are concerned about the security of their children every second they are away from them. The busy and stressful lives we make it difficult to follow the kids, constantly asking for minute-to-minute updates. Even after paying immense attention to their activities or leaving them ultra-vigilant babysitters. It is very much possible to lose track of the kids.</p> <p>The evolution of technology has made things easier for everyone. One of the many gifts that technology has given us is the Global Positioning System (GPS) tracking. We can track real-time locations with the help of GPS.</p> |
| 6. | Scalability of the Solution | <p>Throughout the research, it is clearly explained the IoT concept, child safety issues and the need of using a child security system. Some previous studies have been included for designing the IoT-based child security smart band. It assists parents to monitor their children remotely. In case situations happen, notifications will be sent to parents so that actions can be taken. Through this, child safety can be ensured and crime rate will be reduced. Child safety can be ensured and crime rate will be reduced.</p> |