

Project Design Phase-I
Proposed Solution

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| Date | 24 September 2022 |
| Team ID | PNT2022TMID21482 |
| Project Name | IoT Based Safety Gadget for Child Safety Monitoring & Notification |
| Maximum Marks | 2 Marks |

Proposed Solution Template:

| S. No. | Parameter | Description |
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| 1. | Problem Statement (Problem to be solved) | The world is becoming unsafe today. Lots of reasons are prevailing for a child to go missing. Child trafficking, child labour are few reasons. So, the responsibility for the parents to take care of their children has increased. This can be overcome by taking the aid of technology. So, developing an app which can show live location of child any time to parents/guardian mobile. To alert the parents when they get out of their Geofence. |
| 2. | Idea / Solution description | A Smart IoT device for tracking is developed to aid parents to detect and keep eye on their children. In this project, we are going to develop a wearable safety gadget to display the live location of a child at any time on the parent's mobile to ensure on their safety. A panic button in which the child can press during danger. Proper alert is given to the parents, guardians. |
| 3. | Novelty / Uniqueness | Our System offers an GPS tracking and wearable device to get information about the location and an immediate notification to parents, guardians, etc. The IoT device is also efficient and faster in communication as the device always synced with the mobile phone. This gadget has a lot of secondary features. |
| 4. | Social Impact / Customer Satisfaction | The device guarantees the child safety through constant monitoring via mobile phones, thus reducing the safety concern among the parents. It |

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| | | <p>reduces the risk of the child during emergency situations as the device notifies immediately to the parent when unexpected events happen. Thus, the action is taken immediately, and the child is protected from further danger. It will be great helpful to parents who are busy workers not having time to watch over their children, and easy to operate so anyone can handle it.</p> |
| 5. | Business Model (Revenue Model) | <p>The Most desired in the contemporary market, as kids need more protection in the current times. The gadget can be acquired at an affordable rate. Our gadget possesses a lot of ingenious attributes, and it will be accessible and beneficial to everyone. It is a device with numerous subscriptions for tracing and notification assistance.</p> <p>Our system provides a futuristic framework in such a way that new technologies in the market that align with our system can be readily adopted, adding more profit from a revenue standpoint, and offering multiple benefits at a viable cost from a user standpoint.</p> <p>As devices are at low costs, the awareness of the device will be spread among the entire society creating an impact. This increases the number of users hence the profit also increases, as number of users is directly proportional to the profit of the manufacturer</p> |
| 6. | Scalability of the Solution | <p>This methodology can be further enhanced by the installation of the mini camera inside a smart gadget for exemplary security and protection so that a glimpse can be caught on the live footage on the parental phone during panic circumstances.</p> <p>It is a portable system and requires less maintenance.</p> <p>It is more efficient and are available at reasonable prices.</p> |