

## Project Design Phase-I

### Proposed Solution

Date	30 September 2022
Team ID	PNT2022TMID01794
Project Name	Project - IoT Based Safety Gadget for 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)	The child safety monitoring system via mobile phones is a current growing smart technology among the society. But still the awareness and its importance is not wide spread due to its complexity and high cost.
2.	Idea / Solution description	The invisible child safety band consists of a GPS sensor to track the live location and send the information to the synced mobile phone. <ul style="list-style-type: none"> <li>● The vibration sensor attached to invisible child safety band detects the accident</li> </ul>
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> <li>● The child safety band is considered to be invisible as the outer material of the band is similar to the skin color of the child, which is customized by the users.</li> <li>● The child safety band is a user friendly gadget as its functionalities can be controlled via the synced mobile phone like setting the distance range, buzzer indication.</li> <li>● The band is also efficient and faster in communication as the device always synced with the mobile phone</li> </ul>
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> <li>● The device guarantees the child safety through constant monitoring via mobile phones, thus reducing the safety concern among the parents.</li> <li>● It reduces the risk of the child during emergency situations as the device notifies immediately to the parent when unexpected events happen.</li> <li>● Thus the action is taken immediately and the child is protected from further consequences.</li> </ul>
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> <li>● The device can be sold in different ways like selling in stores , online purchase etc as the device is small with customizable options.</li> <li>● The device can be manufactured in different forms according to the convenience of the users, which thereby increases the productivity and sales.</li> <li>● As child safety bands are low costs, the awareness of the device will be spread among the entire society creating an impact.</li> <li>● This increases the number of users hence the profit also increases, as number of users is directly proportional to the profit of the manufacturer</li> </ul>

6.	Scalability of the Solution	<ul style="list-style-type: none"> <li>● As the invisible child safety band is efficient and low cost, the awareness of the child safety monitoring system can be spread among the society.</li> <li>● The invisible child safety band can be customized into different ornamental forms according to the requirement of the user.</li> <li>● The device also acts as a health monitoring system by sensing the radiation from the human body</li> </ul>
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