

**Project Design Phase-I**  
**Proposed Solution Template**

Date	19 September 2022
Team ID	PNT2022TMID11129
Project Name	Project – IOT Based safety gadget for child safety monitoring & 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)	Enable location tracking for the kid and remote data collection for things like body temperature, pulse, breathing rate, sleep quality, and many more. to display actual data from the child together with reference values.
2.	Idea / Solution description	Parents may follow their children's whereabouts at all times with the aid of a child tracker. If the child crosses the geofence, alerts will be generated by continuously monitoring the child's position. Parents or caregivers will receive notifications based on the child's location.
3.	Novelty / Uniqueness	BPM and pulse rate are measured using a heart rate sensor. Children's sleep quality is measured via a sleep, quality sensor positions and a cycle. The altimeter tracks height changes and determine if kids are sliding down a slope or not climbing stairs to calculate calories burned. On the other hand, a pedometer is employed for step counting.
4.	Social Impact / Customer Satisfaction	Utilizing a questionnaire as a form of quantitative research, researchers can assess users' attitudes, behaviours, and the factors that influence how well they accept the kid security system.
5.	Business Model (Revenue Model)	The IoT-based system makes it possible for objects to be sensed or controlled remotely across the existing network infrastructure, opening up opportunities for a more direct integration of the physical world into computer-based systems and producing increased efficiency, accuracy, and financial benefit with the additional benefits of minimal human involvement.
6.	Scalability of the Solution	While this was going on, other districts were able to observe and pick up tips from the pilot sites thanks to the decentralised government's information-sharing networks.