

Project Design Phase-I
Proposed Solution Template

Date	14 October 2022
Team ID	PNT2022TMID52822
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 safety and security of children is a major problem in the current era. The children are too young to take care of themselves. We cannot monitor the children at all times in school, play area, and outside place.
2.	Idea / Solution description	<p>To enable tracking of the child's location and capturing of data remotely such as temperature, pulse, respiratory rate, quality of sleep and many more. To show the child's actual data with reference values.</p> <p>To enable sending of notification if the child is out of location or when the device realizes abnormal conditions/situations. To trigger the alarm and enable automatic video recording whenever the emergency button is pressed. Then, emergency notification along with real-time video will be sent to and display in the parents' mobile apps. To develop a prototype of IoT wearable smart band connected to parents' mobile apps so that they can monitor the actual condition of children at anytime and anyplace.</p>
3.	Novelty / Uniqueness	A safety gadget based on the application of GPS and GSM which can be adopted for child safety monitoring and notification.
4.	Social Impact / Customer Satisfaction	The crime rate is day by day increasing. Schools need high surveillance for ensuring the safety among children. Smart phones are playing major role for ensuring the safety, where some mobile based applications provide alert systems. The

		literature shows that location tracking devices are available in the market, but it does not provide the complete solution to the problem.
5.	Business Model (Revenue Model)	Large scale production leads to low cost manufacturing, making this a competitive and compactible product.
6.	Scalability of the Solution	Since the location of the child is monitored continuously, this gadget has high probability to confirm the safety of the child. So it can be scaled as a product to the world market and a business model can be brought up.