

Project Design Phase-I
Proposed Solution Template

Date	16 October 2022
Team ID	PNT2022TMID04092
Project Name	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)	To develop a Safety Gadget for Child Safety Monitoring and notification using IoT.
2.	Idea / Solution description	This idea is mainly streamed towards child safety solutions by developing a gadget which can be tracked via its GPS locations and a panic button on gadget is provided to alert the parent via GSM module calling for help. Parental android app is developed to manage and track the device anytime. Smart gadget device is always connected to parental phone which can receive and make phone calls and receive SMS on gadget via GSM module, also a wireless technology is implemented on device which is useful to bound the device within a region of monitoring range, if device is moving out of monitoring range, then an alert will be triggered on binding gadget, this helps you keep a virtual eye on child. Health monitoring system on gadget checking for parameters like heart beat/pulse rate and temperature is included which can be monitored on parental app. Gadget also monitors whether it is plugged on hand or not using contact switch and alert the parent as soon as it is unplugged.
3.	Novelty / Uniqueness	<ul style="list-style-type: none"> ✓ As contact switch to send alert if not plugged on. ✓ Can call the parents in case of emergency and send location ✓ Also, as health monitoring system
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> ✓ Protecting the child in case of any emergency ✓ Cost efficient

5.	Business Model (Revenue Model)	Using this Model: - Parents can safely send the child anywhere without getting any fear of child trafficking Without Using this Model:- More child trafficking and less secure for children
6.	Scalability of the Solution	The device is developed in way we can track the live location and send emergency calls to the parents and it cost effective.