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

Date	23 September 2022
Team ID	PNT2022TMID2092
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)	Nowadays Children's safety is being a major issue and parents are very much concerned about their safety.  Safety concerns with misplaced location of the child. In cases of child being misplaced the main concern is where is the child.  Which type of place/location the child is being with.  Hence we have to collect the location and update parents regarding the real Location of the child.  We are in need to curate a safety gadget that involves real time location monitoring of children and informs parent about their Location.
2.	Idea / Solution description	We intend to create a safety device for children with real time monitoring of location.  A Tracker device is bought by the parent side. Then the device details and current location or out of geofence location is sent to parents device registered.  We first Collect Location of the child. Then we will have to create a geofence location of the children. The location is being updated at the parent side regularly. In case if the child moves away from the geofence location or trafficked by strangers. There comes the notification sent when the child moves away from the geofence location. The notification of is sent to parents mobile or care taker's Mobile number.
3.	Novelty / Uniqueness	We tend to send real time location of children by updating their location.  If their children tend to cross the geofence we send a notification to their parent.

		We could achieve safety tracker by curating a safety gadget for example a Bluetooth airtracker Device.  If parents keep this tracker in their child's Bag we could get the real time location of them. It is a small device which wouldn't be visible much.  Therefore Parents could know the child's location and if they tend to lost among the crowd they could easily find.  If incase strangers traffic the child, the parent could know about the place and they could inform police thus the child could be brought back safely.
4.	Social Impact / Customer Satisfaction	Parents would be satisfied by knowing their children's location and worried less about their safety.  If in case the child gets lost or trafficked by strangers the parents could know their location.  After knowing their location parents would be less tense free so that they could search their child without loitering here and there.  They could immediately visit the police station thus informing the location of the child.  And then they could go and catch hold of the child trafficker.  Thus child is brought back safe and we could catch the culprit.
5.	Business Model (Revenue Model)	A Safety gadget by sending notification to their parents or caretakers.  A IoT enabled device which needs to be kept in the children bag.  We have to first promote the device among parents.  Then we have to tell them about the uses.  Then collect and configure parents' mobile number with the IoT device.
6.	Scalability of the Solution	A location tracker gadget that helps in location tracking. Real time location must be updated regularly. If the child tends to cross the geofence i.e the area other than the permitted limit of a child, Parents should receive a notification that the child is out of the geofence. Thus notification must be sent accurately.