

Project Design Phase-I
Proposed Solution

Date	31 October 2022
Team ID	PNT2022TMID19685
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	2 Marks

Proposed Solution :

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	<p>*As we all know, kids are the heartbeat of every parent, and when it comes to a child with special needs, parents have to be extra careful. They have to take extra care of the child.</p> <p>*Parents will not be able to monitor their children's whereabouts at all times and can't relax without knowing the exact location of them.</p> <p>*Parents cannot know if their children are in a hazardous or unsafe environment.</p> <p>*Parents cannot know the previous location history of their children to find any lost belongings of them.</p> <p>*Parents can neither contact nor instruct their children when they are far away from them.</p>
2.	Idea / Solution description	<p>*Child tracker helps the parents in continuously monitoring the child's location. They can simply leave their children in school or parks and create a geofence around the location.</p> <p>*By continuously checking the child's location notifications will be provided if the child crosses the geofence. Notifications will be sent according to the child's location to their parents or caretakers. The entire location data will be stored in the database.</p> <p>*Child can also initiate emergency notifications to the parents incase of unsafe situation.</p>
3.	Novelty / Uniqueness	<p>*Easily understandable UI</p> <p>*Highly scalable</p> <p>*Security</p> <p>*Economical</p> <p>*24/7 monitoring</p> <p>*Waterproof</p>

		*Fast tracking
4.	Social Impact / Customer Satisfaction	<ul style="list-style-type: none"> *Cases of child disappearances, kidnapping , child accidents can be reduced drastically. *Provide liberty for children, especially children with special needs. *Parents can be relaxed knowing their child's status especially when they are at a far distance from them. *Parents can act quickly when their children are in a danger. *Economical and waterproof features , long - lasting battery and consistent performance of the tracker improves customers satisfaction.
5.	Business Model (Revenue Model)	<ul style="list-style-type: none"> *Selling the product directly to the parents(Device + Monthly subscription) *Selling the product to child care organizations or centers. *Selling the product via e-commerce.
6.	Scalability of the Solution	<ul style="list-style-type: none"> *Increase and decrease of resources like memory and computing power with the help of cloudant db.