Project Design Phase-I Proposed Solution Template

Date	06 October 2022
Team ID	PNT2022TMID15198
Project Name	Project - IOT Based Safety Gadget for Child Safety Monitoring & Notification
Maximum Marks	2 Marks

Proposed Solution Template:

S.No.	Parameter	Description
1.	Problem Statement (Problem to be solved)	With the increasing rate of child kidnapping and trafficking and lack of tracking technology for child, there is limited Application for child monitoring. Hence an IOT based safety gadget for child safety is probably the need most today
2.	Idea / Solution description	A good solution to this issue would be to design a smart wearable IOT sensor based device for monitoring the environment of a child along with a Mechanism for tracking the child. The gadget will make use of GPS and a python script to publish the location details to the IBM IoT Platform. The wearable also functions to send immediate alerts to the user through in case. If the child crosses the Geofence.
3.	Novelty / Uniqueness	All the existing systems make use of GPS and a mobile app to track and receive alerts regarding the child's location and those don't show the exact location and they are unreliable, while this system make use of the IBM Watson IOT Platform and IBM Cloud Services which is reliable and efficient to maintain the database of the child's location. The parent can set geofence and receive alerts through the web application which is user friendly and secure created by using the Node Red Service.

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4.	Social Impact / Customer Satisfaction	The main concern of any parent would be the
		safety and security of their kids. The design of
		this model does not mandate a lot of technical
		knowledge from the user to operate and it is
		simple. The purpose of this device is to
		facilitate the guardian or parents in locating
		their child with ease and ensuring its wellbeing.
5.	Business Model (Revenue Model)	The target audience of this device is majorly
		the parents. Considering the Tracking ability of
		the device, Hardware quality, used technology
		and sensors, the starting range of price would
		go from Rs. 6000 and above. This type of
		wearable
		safety system is of atmost importance today
		and would be a must buy gadget in the market
		today.
6.	Scalability of the Solution	With the present needs for monitoring the
		child, the system is designed. It has a location
		database to maintain the entire location history
		of the child and the parent can set the
		geofence to determine the safer boundary of
		the child If there is a need for integrating
		additional sensors to improve accuracy, it can
		be done to make the system efficient in the
		long run.
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