Ideation Phase Brainstorm & Idea Prioritization

Team ID	PNT2022TMID11653
Project Name	IoT Based Child Safety Monitoring and Notification
Maximum Marks	4 Marks

Step-1: Team Gathering, Collaboration and Select the Problem Statement:

We have followed the first step of brainstorming; we have discussed as a team to decide a problem statement.

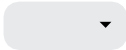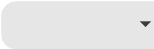As per the guideline the following is done
1. Team Gathering
2. Collaboration
3. Deciding the problem statement

PROBLEM STATEMENT

To create a smart wearable device for children that uses advanced technology to ensure their safety all the time.

Step-2: Brainstorm, Idea Listing and Grouping BRAINSTORMING:

TEAM MEMBER	MEMBERS OPNION	IDEAS
MANIKANDAN S	MAY GIV…	Collecting vital signs of the child like Blood Volume Pulse (BVP) Galvanic Skin Response (GSR) to help parents to monitor child. An abrupt change in this should trigger alert.
KISHORE KUMAR S	GOOD	Detecting locations using GPS and sending the information to parents using GSM.
NAVEEN S	BEST	Detecting location using GPS and sending the information to parents through cloud services.
NAVANEETHAN M	COSTLY	Application of Machine Learning and cameras to enable child safety by monitoring every movement.

BY GROUPING IDEAS:

- We have planned to use GSP for detecting location and to send the message parents we can use GSM or Cloud.
- The location will be shared in application or as message to parents
- The notification is also sent in case of emergenci

Step-3: Idea Prioritization:

Prioritization Matrix

1. Using location trackers like GPS in order to detect the location of the child.
2. The GPS are connected to IOT application in order notify the parents
3. Use other sensors if required for the particular application as temperature, heart beats etc.
4. Using automation without the knowledge of parents or human resource