

## Ideation Phase Brainstorm & Idea Prioritization

Date	19 September 2022
Team ID	PNT2022TMID21372
Project Name	IoT Based Safety Gadget for 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 OPINION	IDEAS
HARSHAVARDHINI	MAY GIVE	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.
HARIPPRIYADHARSHINI	GOOD	Detecting locations using GPS and sending the information to parents using GSM.
HITHAYATHUN NIHMA	BEST	Detecting location using GPS and sending the information to parents through cloud services.
KAURI SHEETAL P	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 sent 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 incase of emergencies

### Step-3: Idea Prioritization:



- 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 to 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