Project Design Phase-II
Technology Stack (Architecture & Stack)

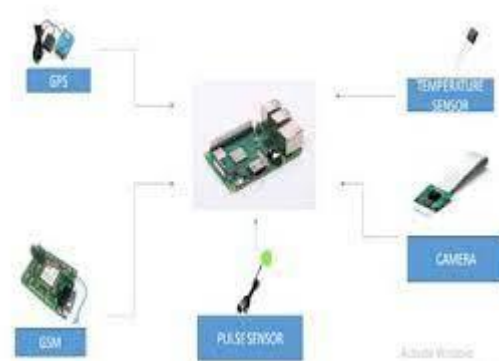| Date	16 October 2022
Team ID	PNT2022TMID18967
Project Name	Project – IOT based safety gadget for child safety monitoring and notification.
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The proposed solution's communication protocol might serve as an interface, similar to how WiFi, Bluetooth, and ZigBee do.	MIT App
2.	Application Logic	The information to be gathered and transmitted to GPS is provided by authenticator's (parent) via GSM	IBM Watson STT service, python etc.

		locations for quick access, monitoring, and child	
3.	Database	Using relational DBMS, separate and safeguard the data.	MySQL
4.	Cloud database	IBM	IBM Cloudant
5.	File Storage	File Storage Requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	External API-1	Access children location	GPS Location Monitoring etc,.
7.	Infrastructure (Server / Cloud)	Local Server Configuration / Application Deployment on Local System / Cloud	Cloud Foundry.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The suggested remedy is designed as an Android app that allows users to easily monitor their children (users should ideally be parents).	UI/UX design developement
2.	Security Implementations	The created application needs to be used in such a way that it can only react to user comments.	Encryptions, IAM Controls.
3.	Scalable Architecture	The app format is much simpler to use and handle.	Not yet determined
4.	Availability	The created solution typically has a constant market availability.	Not yet determined
5.	Performance	In the designed solution, highly appropriate and improvement functionalities must be guaranteed.	Not yet determined