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

Team ID	PNT2022TMID32775
Project Name	IoT Based Safety Gadget for Child Safety Monitoring and Notification

Technical Architecture:

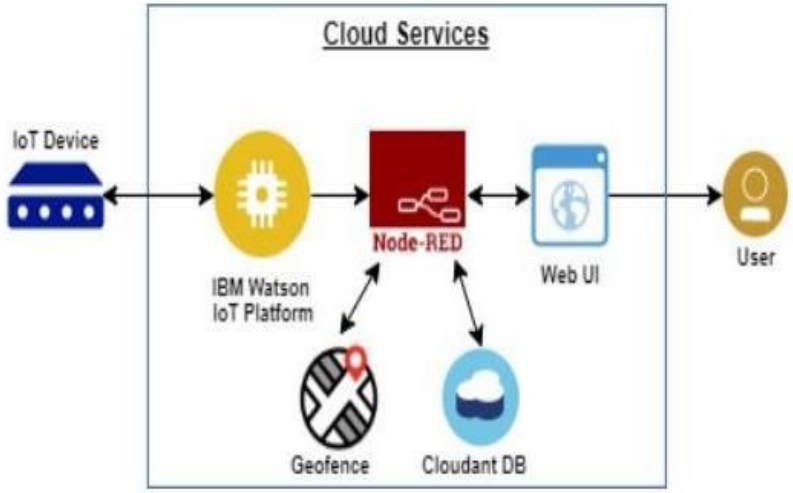

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The communication protocol being used in the proposed solution might act as an interface the way like WiFi , Bluetooth and Zigbee.	MIT App
2.	Application Logic-1	The data to be collected and sent to authenticators's via GPS to easily locate access and monitor the child.	IBM Watson STT service, Python
3.	Database	Data to be segregated and secured in the form relational DBMS.	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	To access the children location	GPS location monitoring etc.
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration	Cloud Foundry

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	The proposed solution being framed in the form an android application providing the end user and easy surveillance of the children(preferably users are parents)	MIT App Inventor
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Antivirus
3.	Scalable Architecture	The scalability of architecture	Data Storage
4.	Availability	The availability of application	Temperature sensor, pulse sensor, camera, sound recorder
5.	Performance	Design consideration for the performance of the application	GPS tracking