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

Date	14 October 2022	
Team ID	PNT2022TMID22281	
Project Name	Project – IOT based safety gadget for child	
	safety monitoring and notification	
Maximum Marks	4 Marks	

Technical Architecture:

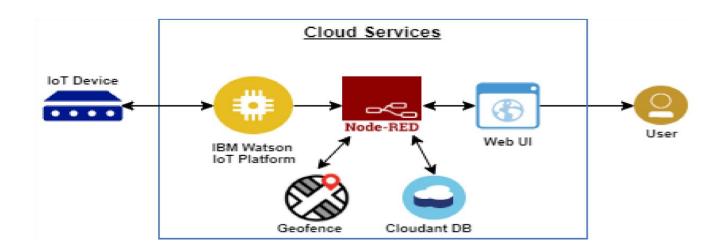


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The communication protocol being used in the	MIT app
		proposed solution might act as an interface the	
		way like WiFi, Bluetooth and ZigBee	
2.	Application Logic	The data to be collected and sent to the authenticator's(parent) via GSM providing the GPS	IBM Watson STT service, python etc
		coordinates to easily locate access and monitor the	
		child	
3.	Database	Data to be segregated and secured in the form of	MySQL
		relational DBMS	
4.	Cloud Database	IBM	IBM Cloudant
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage
	-		Service or Local file system
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 an easy surveillance of their children (preferably users are parents)	UI/UX design development
2.	Security Implementations	The developed application should be accessible in the way it can only respond to the comments of the relevant users	Encryption, IAM Controls.
3.	Scalable Architecture	The app format comes the way easier to handle and operate.	Not yet determined
4.	Availability	The developed solution tends to be available in the market at any time	Not yet determined
5.	Performance	Highly proper and betterment functionalities are to be ensured in the designed solution	Not yet determined