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

Date	23 October 2022
Team ID	PNT2022TMID54016
roject Name IoT Based Safety Gadget for Child Safety	
	Monitoring & Notification
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table 2

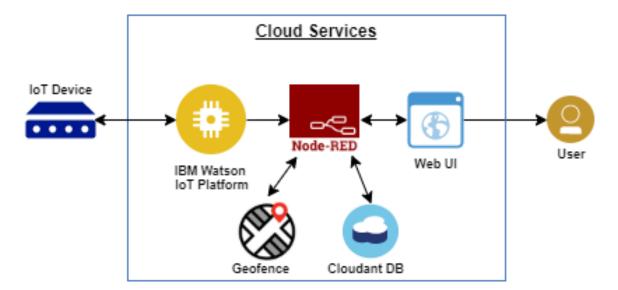


Table-1: Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The communication protocol being used in the proposed result might act as an interface the way like WiFi, Bluetooth and ZigBee	Node-RED
2.	Application Logic	The data to be collected and sent to the authenticator's(parent) via GSM providing the GPS coordinates to easily locate access and monitor the child	IBM Watson service, python
3.	Database	Data to be segregated and secured in the form of relational DBMS	MySQL
4.	Cloud Database	Database Service on Cloud	IBM Cloudant
5.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration.	Cloud Foundry

Table-2: Application Characteristic:

S.No	Characteristics	Description	Technology
1.	Security Implementations	The developed application should be accessible in the	Encryption
		way it can only respond to the comments of the relevant	
		users	
2.	Scalable Architecture	The web app format comes the way easier to handle	Node-RED
		and operate.	
3.	Availability	The developed solution tends to be available in the	We are using the geofence, a service that
		market at any time	triggers an action when a device enters into
			the set location
4.	Open-Source Frameworks	The proposed solution being framed in the form an	<u>U</u> I/UX design development
		android application providing the end user an easy	
		inspection of their children.	