

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

Date	03 October 2022
Team ID	PNT2022TMID44808
Project Name	Project - – IOT based safety gadget for child safety monitoring and notification
Maximum Marks	4 Marks

Technical Architecture:

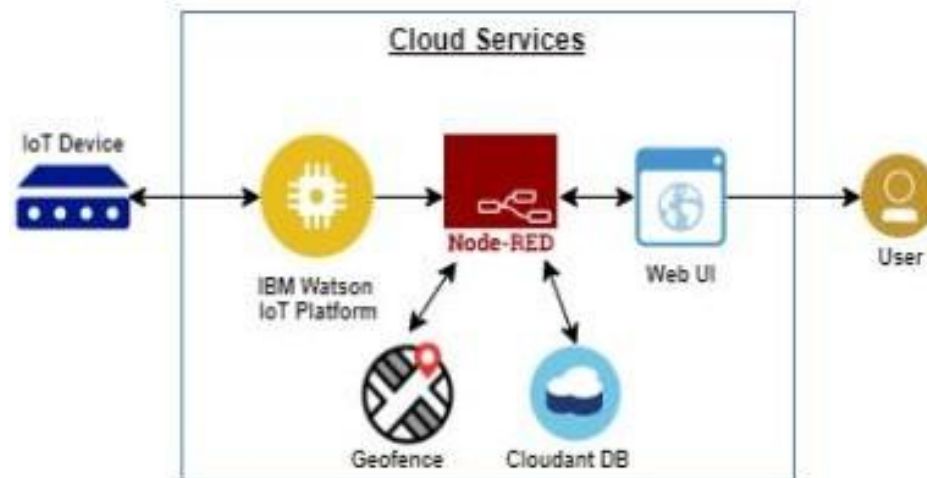


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	<i>The communication protocol being used in the proposed solution might act as an interface the way like WiFi, Bluetooth and ZigBee</i>	<i>MIT app</i>
2.	Application Logic	<i>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</i>	<i>IBM Watson STT service, python etc</i>
3.	Database	<i>Data to be segregated and secured in the form of relational DBMS</i>	<i>. MySQL</i>
4.	Cloud Database	<i>IBM</i>	<i>IBM Cloudant</i>
5.	File Storage	<i>File storage requirements</i>	<i>IBM Block Storage or Other Storage Service or Local Filesystem</i>
6.	External API	<i>To access the children location</i>	<i>GPS location monitoring etc</i>
7.	Infrastructure (Server / Cloud)	<i>Application Deployment on Local System / Cloud Local Server Configuration</i>	<i>Cloud Foundry</i>

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	<i>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)</i>	<i>UI/UX design developement</i>
2.	Security Implementations	<i>The developed application should be accessible in the way it can only respond to the comments of the relevant users</i>	<i>Encryptions, IAM Controls.</i>
3.	Scalable Architecture	<i>The app format comes the way easier to handle and operate</i>	<i>Not yet determined</i>
4.	Availability	<i>The developed solution tends to be available in the market at any time</i>	<i>Not yet determined</i>
5.	Performance	<i>Highly proper and betterment functionalities are to be ensured in the designed solution</i>	<i>Not yet determined</i>