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

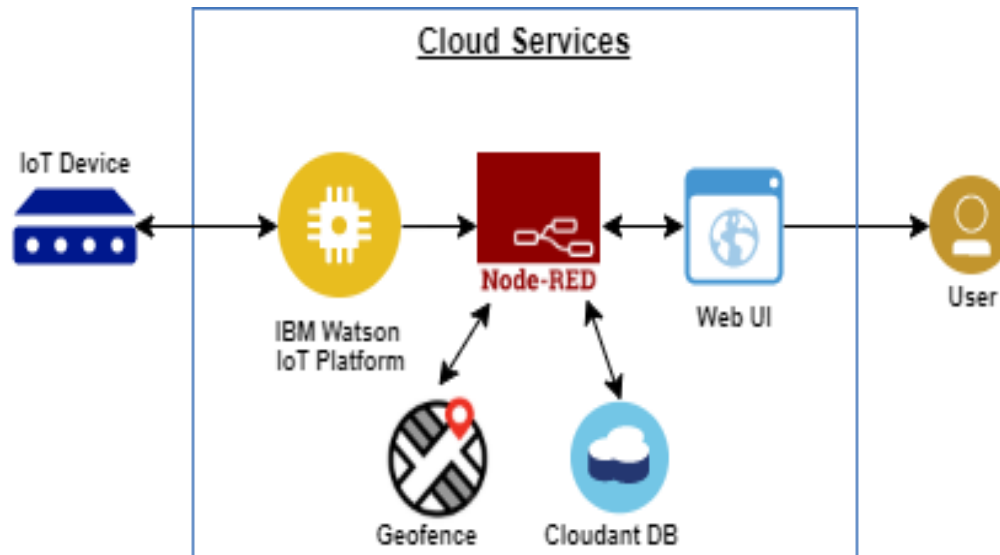| Date	08/11/2022
Team ID	PNT2022TMID06124
Project Name	IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The interact with users for communication protocols way like wifi,Bluetooth,internet and zigbee.	MIT app.
2.	Application Logic	Data's are collect and sent to the authentication person(parent/guardian) via GSM providing the GPS coordinates to easily locate access and monitor the child.	IBM Watson STT service,python,etc,.
3.	Database	Data has access, secured and stored in the form of relational DBMS.	MySQL
4.	Cloud Database	IBM	IBM cloudant
5.	File storage	File storage requirements	IBM Block Storage or Other Storage Service system.
6.	External API-1	To access the children location	Service Local Filesystem GPS monitoring
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration .	Cloud foundry

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	UI/UX design development
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryptions, IAM Controls.
3.	Scalable Architecture	App is Easy way handle and portability.	Not yet Determined
4.	Availability	In schools,homes,parks are available for safety purpose.	Not yet Determined
5.	Performance	High reliability and efficiency in the device.	Not yet Determined