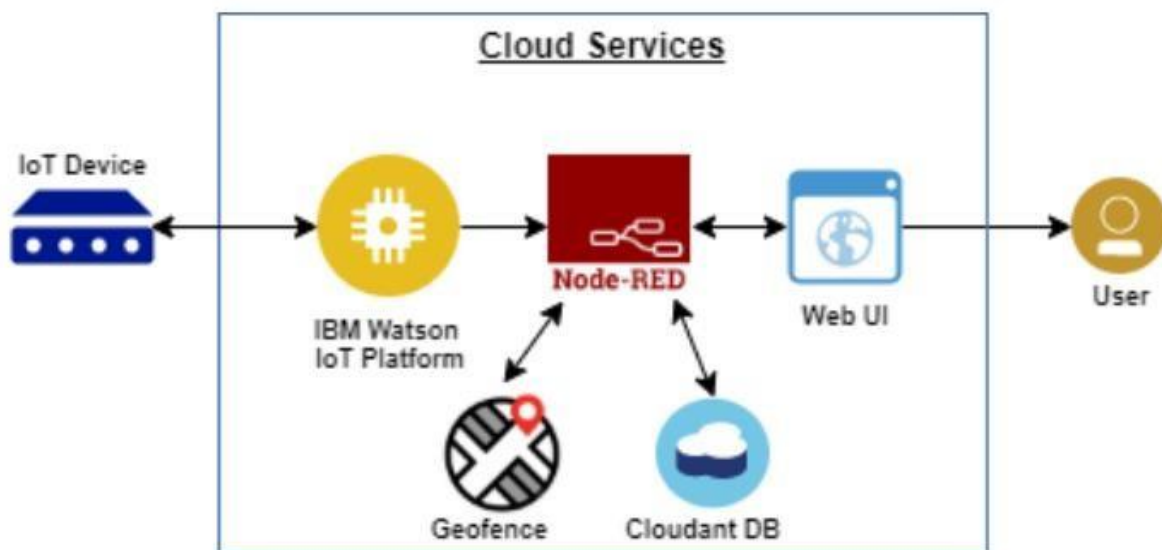


Project Design Phase-II

Technology Architecture

Date	26 October 2022
Team ID	PNT 2022TMID37548
Project Name	Project - IoT Based Safety Gadget for Child Safety Monitoring and Notification
Maximum Marks	4 marks



Components & Technologies

S.No	Components	Description	
1	User Interface	Users had to register and outlook the other device's location Web UI, Mobile App, etc.	HTML, CSS
2	Application Logic-1	Registration of child's and parent's device in each other device.	python
3	Application Logic-2	The child's GPS should be in ON condition, Parent's device should always be correlated to Child's appliance	IBM Watson STT service IBM Watson Assistant
4	Application Logic-3	he child's GPS should be in ON condition, Parent's device should always be correlated to Child's appliance	IBM Watson Assistant IBM Watson STT Service
5	Database	Data Type can be any configuration such as arbitrary binary data, or text. Location history is stored in the cloud and the values include distance, latitude, and longitude. A user-defined blob of data transmitter from Cloud IoT Core to a device	MySQL, NoSQL, SQLite.
6	File Storage	Files will be labelled with what they encompass and how long they should be kept.	IBM Block Storage or Other Storage Service or Local Filesystem
7	Cloud Database	Users install tracking software on a cloud infrastructure to perpetrate the database	IBM DATA BASE
8	External API	The purpose of the external API employed in the device is to exploit the internet for communicating and executing allotted operations efficiently	IBM Weather API, Aadhar API, Geo-Location Lookup
9	Machine Learning Model	IoT and machine learning deliver insights otherwise hidden in data for prompt, automated retorts and enhanced governing.	Object Recognition Model, Danger Prediction Model.
10	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server chassis: Wearable high-tech mechanism. Cloud Server Configuration: a tremendous network that reinforces IoT devices and applications	Local, Cloud Foundry, Underlying Infrastructure.