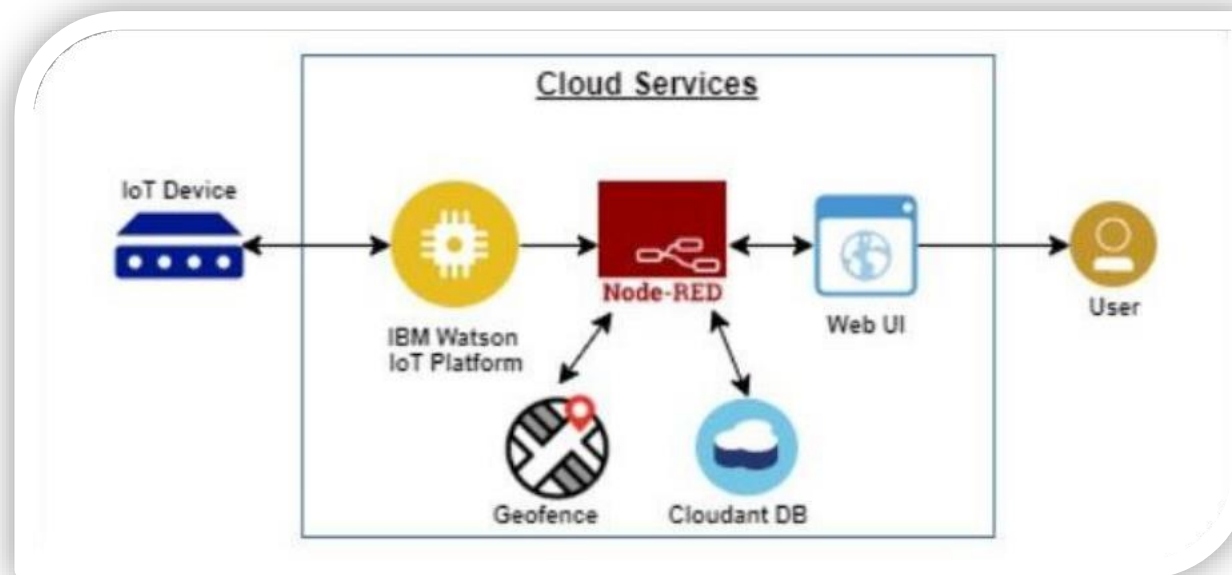


## Technology Stack (Architecture & Stack)

Date	22 October 2022
Team ID	<b>PNT2022MID34328</b>
Project 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 table1 & table 2



**Table-1: Components & Technologies:**

<b>S. No</b>	<b>Component</b>	<b>Description</b>	<b>Technology</b>
1.	User Interface	How user interacts with application e.g., Web UI, Mobile App, Chat bot etc.	HTML, CSS, JavaScript / Angular Js / React Js etc.
2.	Application Logic-1	Logic for a process in the application	Java / Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Application Logic-3	Logic for a process in the application	IBM Watson Assistant
5.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	External API-1	Purpose of External API used in the application	IBM Weather API, etc.
9.	External API-2	Purpose of External API used in the application	Aadhar API, etc.
10.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration:	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

<b>S. No:</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1.	<i>Open-Source Frameworks</i>	<i>List the open-source frameworks used</i>	<i>Technology of Open source framework</i>
2.	<i>Security Implementations</i>	<i>List all the security / access controls implemented, use of firewalls etc.</i>	<i>e.g., SHA-256, Encryptions, IAM Controls, OWASP etc.</i>
3.	<i>Scalable Architecture</i>	<i>Justify the scalability of architecture (3 – tier, Micro-services)</i>	<i>Technology used</i>
4.	<i>Availability</i>	<i>Justify the availability of application (e.g., use of load balancers, distributed servers etc.)</i>	<i>Technology used</i>
5.	<i>Performance</i>	<i>Design consideration for the performance of the application (number of requests per sec, use of Cache, use of CDN's) etc.</i>	<i>Technology used</i>