

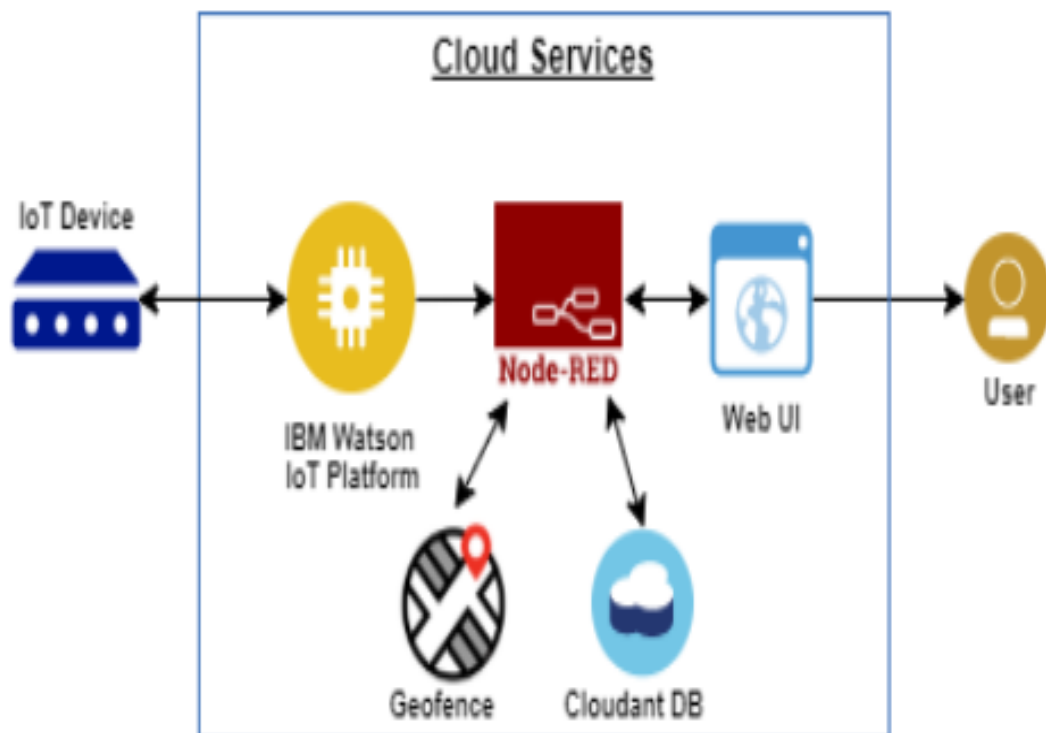
PROJECT DESIGN PHASE -2

TECHNOLOGY ARCHITECTURE

DATE	15-10-2022
TEAM ID	PNT2022TMID37374
PROJECT NAME	Child safety monitoring system
MAXIMUM MARKS	4-marks

TECHNOLOGY ARCHITECTURE:

- Technology architecture deals with the deployment of application components on technology components



S.No	Component	Description	Technology
1.	User Interface	Web UI	HTML, CSS
2.	Application Logic-1	Logic for a process in the application	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
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	Flask
9.	External API-2	Purpose of External API used in the application	Flask
10.	Machine Learning Model	Purpose of Machine Learning Model	Supervised learning
11.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, IBM cloud

TABLE-2: APPLICATION CHARACTERISTICS:

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

