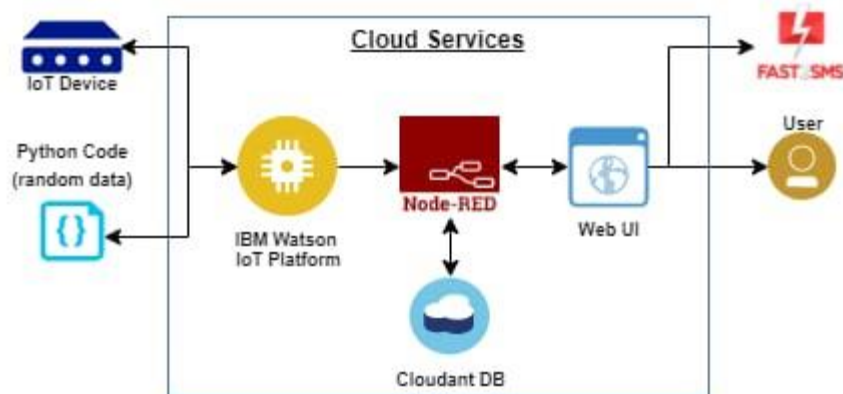


Project Design Phase-II Technology Stack (Architecture & Stack)

Date	30 October 2022
Team ID	PNT2022TMID50701
Project Name	Project – Smart Solutions For Railways
Maximum Marks	4 Marks

Technical Diagram



Guidelines:

1. Include all the processes (As an application logic / Technology Block)
2. Provide infrastructural demarcation (Local / Cloud)
3. Indicate external interfaces (third party API's etc.)
4. Indicate Data Storage components / services
5. Indicate interface to machine learning models (if applicable)

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI	HTML, CSS, JavaScript .
2.	Application Logic-1	View the train details available in the application	Python
3.	Application Logic-2	Logic for a process in the application	IBM Watson STT service
4.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc.
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
6.	External API	Purpose of External API used in the application	IBM Weather API, etc.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Technology of Opensource framework
2.	Scalable Architecture	Justify the scalability architecture (3 – tier, Micro-services)	Technology used
3.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Technology used
4.	Performance	The system responds to the user in a second and the hardware and software works well	Technology used