

PROJECT PHASE -II TECHNOLOGY STACK

Technical Architecture:

Date	21 October 2022
Team ID	PNT2022TMID52217
Project Name	Project – Smart solutions for railways
Maximum Marks	4 Marks

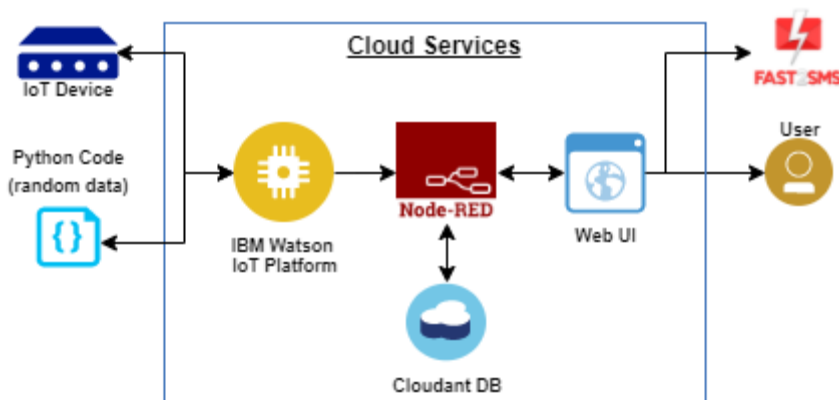


Table-1 :

Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc.	HTML, CSS, JavaScript ,React Js
2.	Database	Data Type, Configurations etc.	MySQL
3.	Cloud services	Database Service on Cloud, where the personnels of passengers are stored	IBM DB2, IBM Cloudant
4.	File Storage	File storage requirements	IBM Block Storage
5.	External API-1	Purpose of External API used in	Scanning Qr code

		the application	
6.	External API-2	Purpose of External API used in the application	Online payment
7.	Machine Learning Model	Purpose of Machine Learning Model	Recommendation system
8.	Infrastructure (Server / Cloud)	Application Deployment on Cloud local serverconfiguration	Cloud Foundry, Kubernetes

Table-2:

Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	React Js
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryptions, IAM Controls, OWASP .
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	3-tier architecture
4.	Availability	Justify the availability of application (e.g. use of load balancers, distributed servers etc.)	Fault tolerant systems