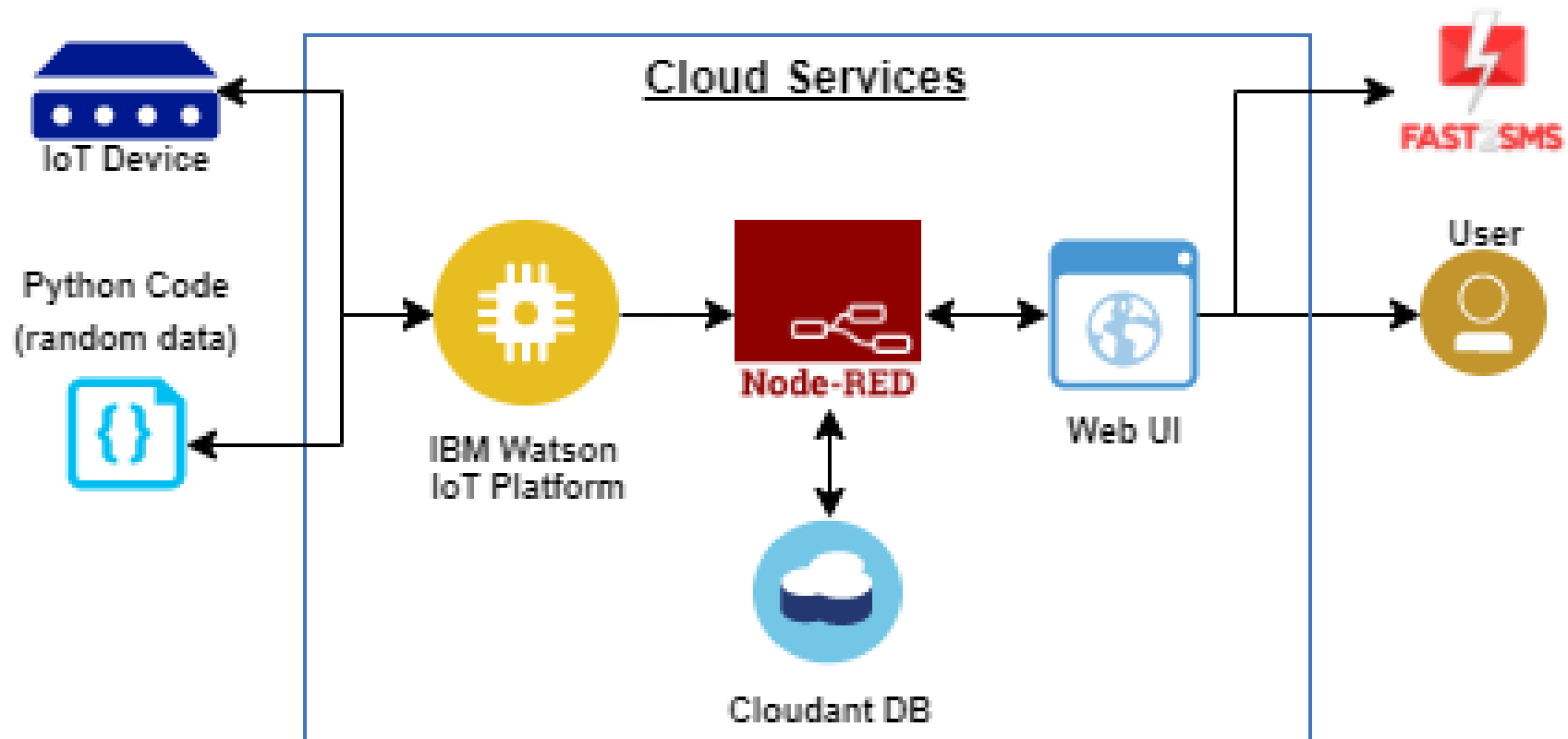


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	03 October 2022
Team ID	PNT2022TMID12354
Project Name	Smart Solutions For Railways
Maximum Marks	4 Marks

**Technical Architecture:**



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

<b>S.No</b>	<b>Component</b>	<b>Description</b>	<b>Technology</b>
1.	User Interface	User interacts with the web application through this particular technology	Node Red , MIT app inverter etc
2.	Application Logic-1	To develop a script for Ticket booking with GPS monitoring system.	Python
3.	Application Logic-2	In order to access the cloud platform	IBM Watson service
4.	Application Logic-3	To build conversational interface with any application and devices.	IBM Watson Assistant
5.	Cloud Database	To store the data in the cloud service	IBM DB2, IBM Cloudant etc
6.	External API-1	To monitor the location of the train in the app	IBM MaaS360
7.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration	Local, IBM cloud , etc.

**Table-2: Application Characteristics:**

<b>S.No</b>	<b>Characteristics</b>	<b>Description</b>	<b>Technology</b>
1.	Security Implementations	In order to avoid the third party access to the application.	Encryption ,One time password protection etc
2.	Availability	Using of available servers and technology	Cloud servers eg: IBM cloud and services
3.	Performance	Different systems are used to represent multiple performance of the application.	Using of systems eg : GPS, QR readers.