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

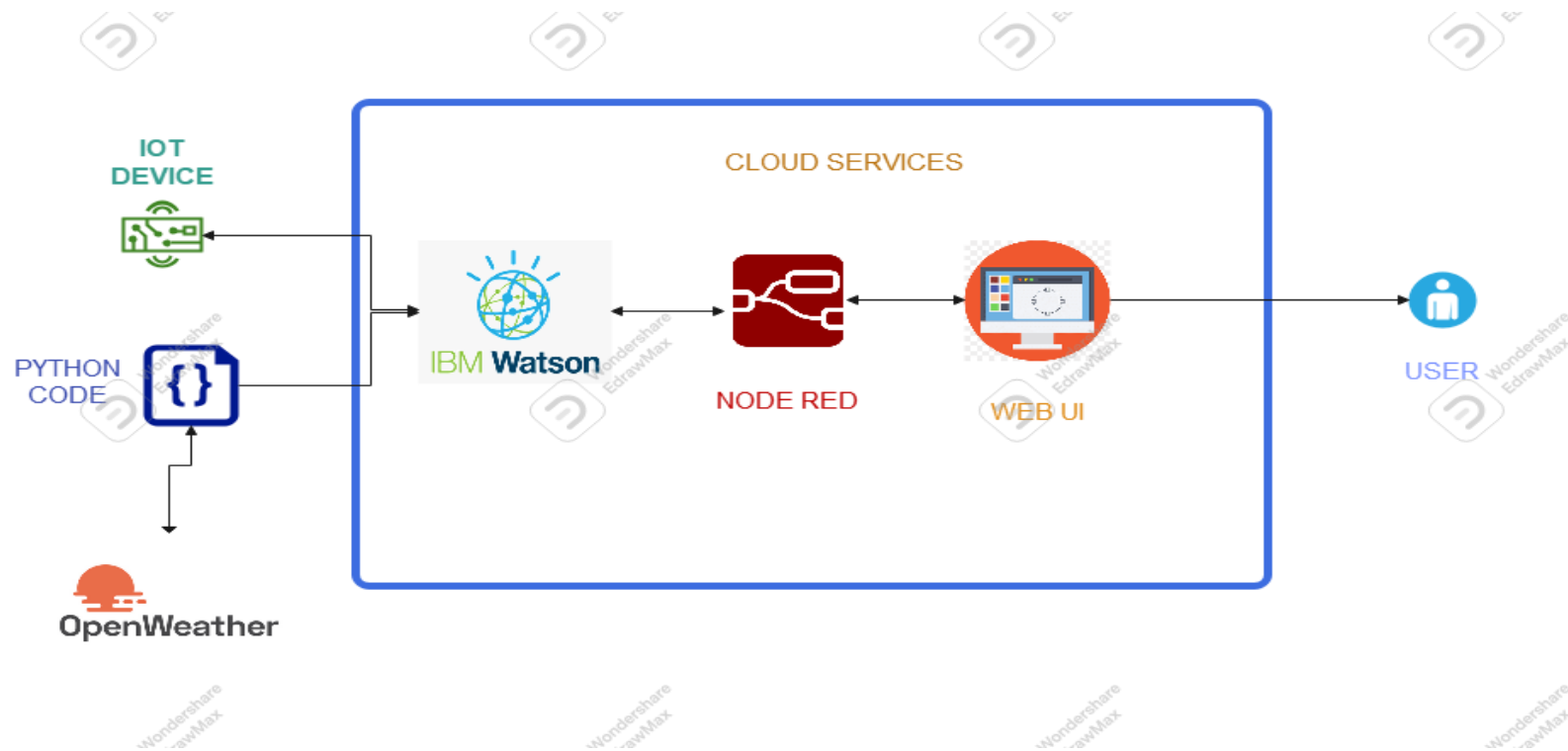| Date	07 NOVEMBER 2022
Team ID	PNT2022TMID21659
Project Name	Project - Signs With Smart Connectivity for Better Road Safety
Maximum Marks	4 Marks

Technical Architecture:

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Mobile App	HTML, CSS, JavaScript
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	MySQL, NoSQL
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:

S.No	Characteristics	Description	Technology
1.	Security Implementations	Security system that fends off against hackers using the IBM cloud security services	Firewall
2.	Scalable Architecture	The Operating range can be expanded by connecting IoT devices from other locations	IOT using internet and WIFI
3.	Availability	Available 24/7 since the system is always active to monitor traffic	IBM Cloud
4.	Performance	Multiple users can use the mobile app at the same time and check the account for any new traffic updates	IBM Cloud