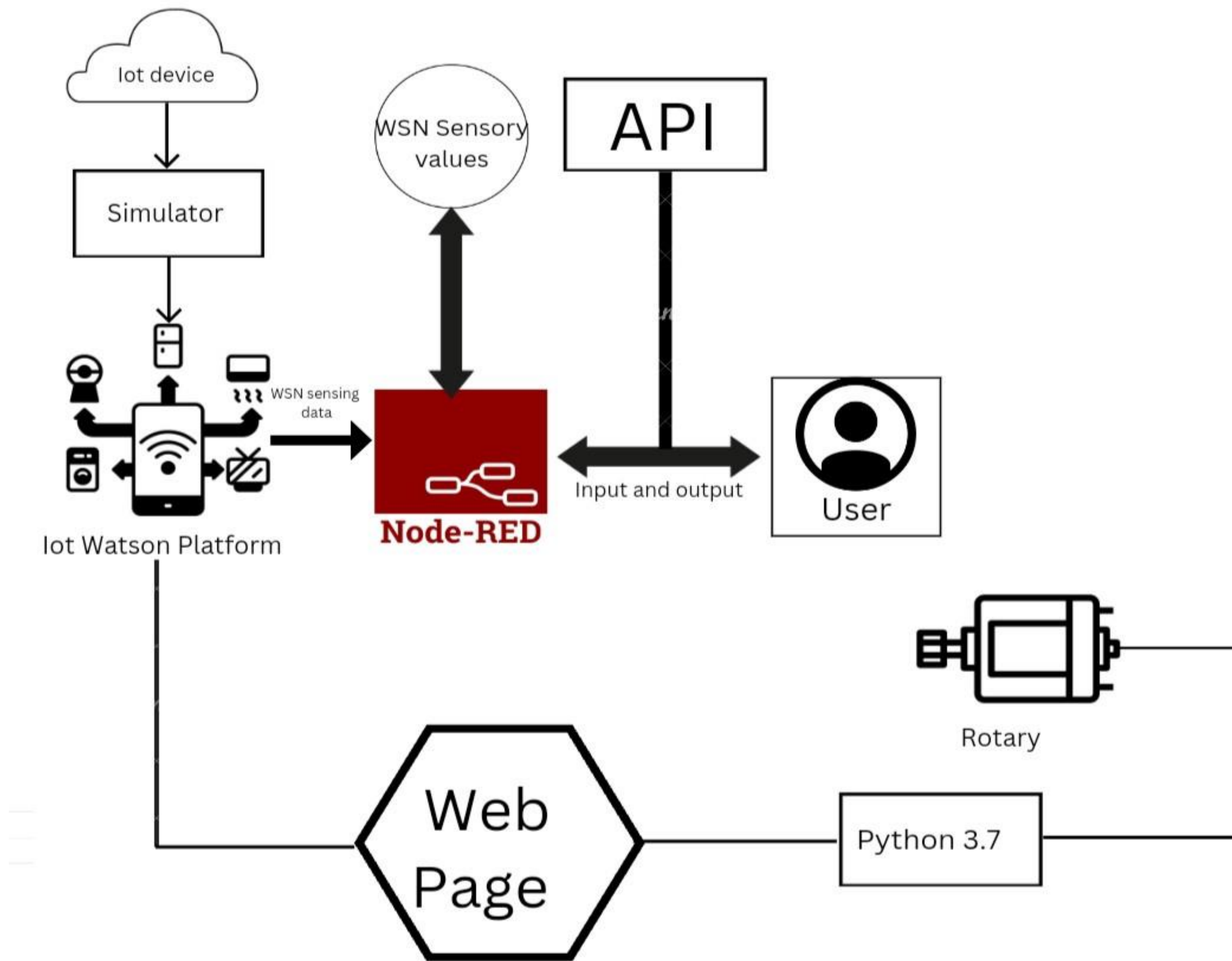


Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	01 October 2022
Team ID	PNT2022TMID50683
Project Name	Project -Real time river water quality monitoringand control system
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2



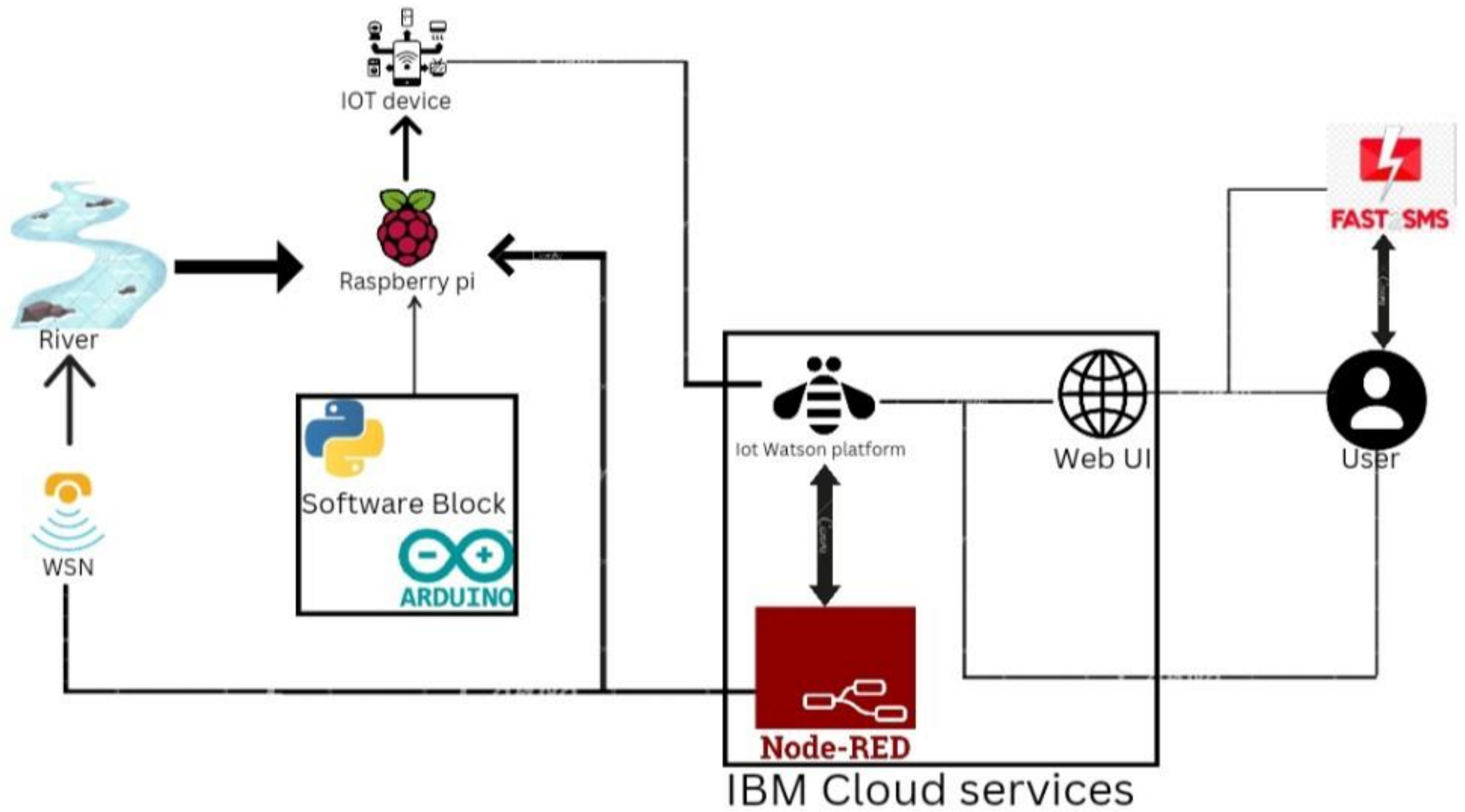


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How client collaborates with application for example Web UI, Portable Application, Chatbot and so forth.	HTML, CSS, JavaScript/Rakish Js/Respond Js and so forth.
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 etc.	MySQL, NoSQL, etc.
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.	Open-Source Frameworks	List the open-source systems utilized	Technology of Opensource framework
2.	Security Implementations	List all the security/access controls carried out, utilization of firewalls and so on.	e.g. SHA-256, Encryptions, IAM Controls, OWASP etc.
3.	Scalable Architecture	Legitimize the adaptability of engineering (3 - level, Miniature administrations)	Technology used
4.	Availability	Legitimize the accessibility of use (for example utilization of burden balancers, circulated servers and so on.)	Technology used
5.	Performance	Plan thought for the exhibition of the application (number of solicitations per sec, utilization of Store, utilization of Cdn's) and so on.	Technology used