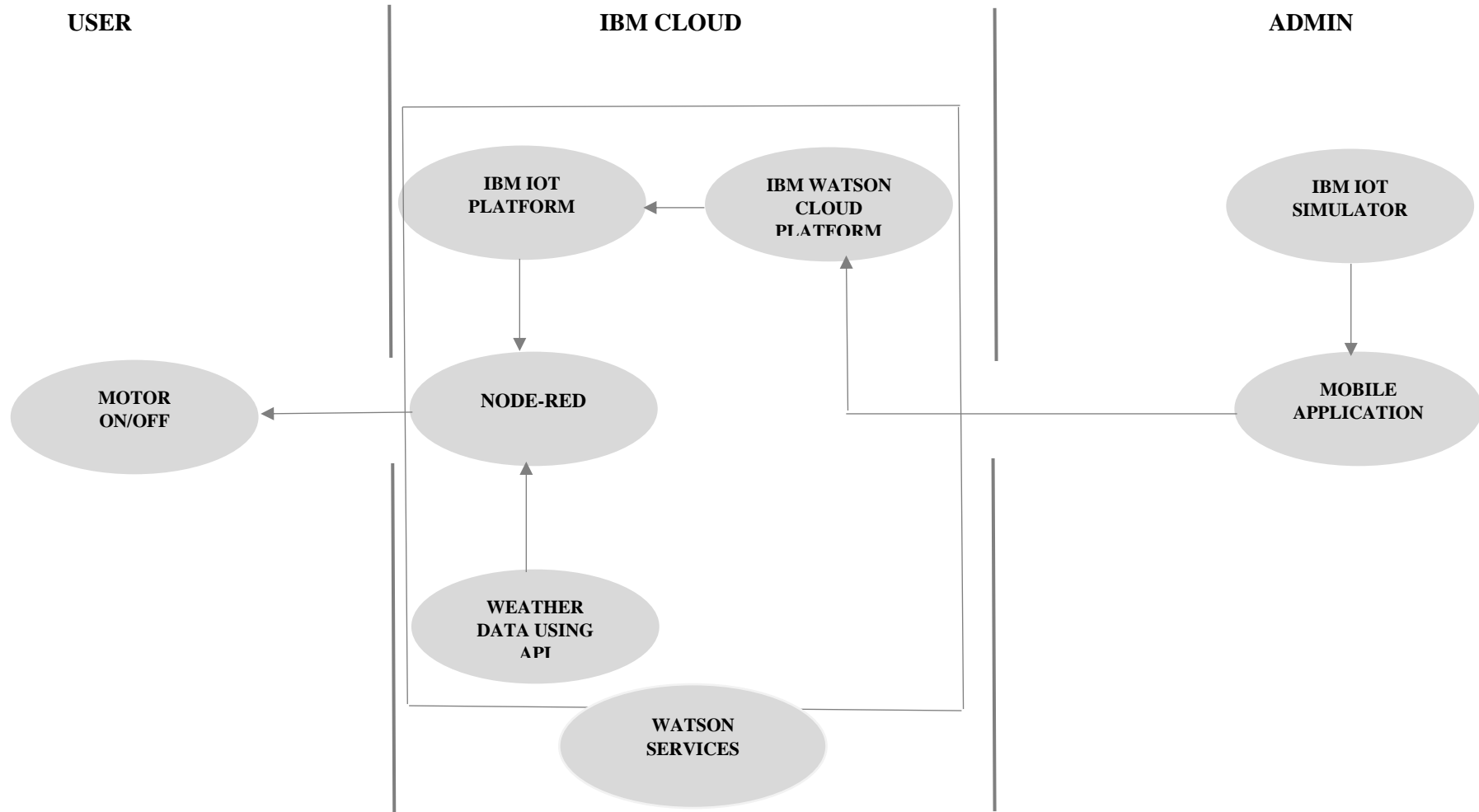


Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID07205
Project Name	Project – SMART FARMER(IoT Enabled Smart Farming Application)
Maximum Marks	4 Marks

Technical Architecture:



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

Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User will interact with application through Web UI or Mobile App.	JavaScript or MIT app inventor
2.	Application Logic-1	To control the motor performance	Python
3.	Application Logic-2	To take weather data from OpenWeather API To take sensor data from the IBM cloud To transfer the motor control data to the cloud	Node-red
4.	Application Logic-3	To perform sensor simulator	IBM IOT PLATFORM
5.	Cloud Database	Database Service on Cloud	IBM Watson Cloud
6.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
7.	External API-1	To get the global weather data	OpenWeather API, etc.
8.	External API-2	To take weather data from OpenWeather API To take sensor data from the IBM cloud To transfer the motor control data to the cloud	Node-red
9.	Infrastructure (Server / Cloud)	Sensor data will be deployed in the cloud and configured through Node-red	IBM WATSON CLOUD.