Solution Architecture

TEAM ID:	PNT2022TMID44437
PROJECT TITLE:	Smart farmer - IOT Enabled smart farming Application
MAXIMUM MARKS:	4 Marks

Temperature and Humidity Sensor

Arduino - UNO

Mobile Apps

Soil Moisture

Python Weather API Script

Users
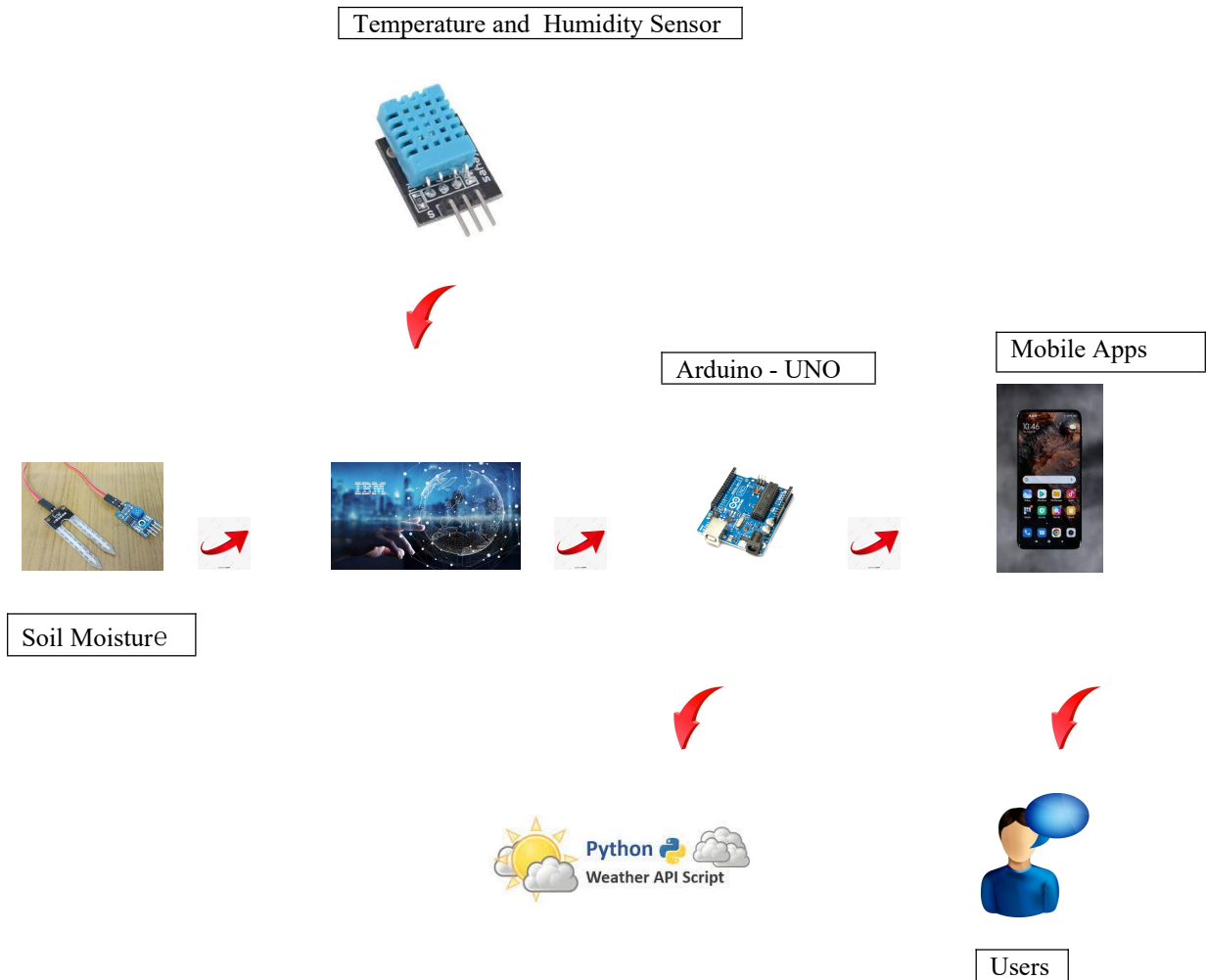
- ❖ Arduino UNO is used as a programming tool to wire the hardware, software,and APIS,the MQTT protocol is followed for communication.

- ❖ The different soil parameters(temperature,humidity,soil moisture) are sensed using different sensors,and obtained value is stored in the IBM Cloud.

- ❖ Node red is used as a programming tool to write the hardware,software,and APIS, the MQTT protocol is followed for communication.

- ❖ All the collected data are provided to the user through a mobile application that was developed using the MIT app inventor.

❖ The user cloud make a decision through an app,whether to water the crop or not depending upon the sensor values.

❖ By using they can remotely operate the motor switch off.