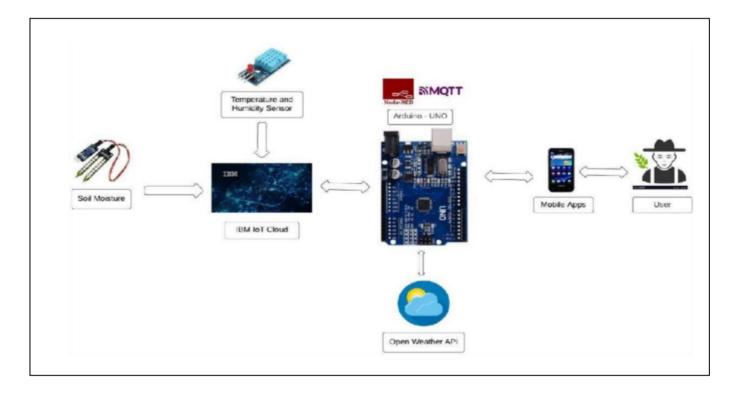
Project Design Phase -

ISolutionArchitecture

Date	11October2022
TeamID	PNT2022TMID30465
ProjectName	SmartFarmer-
	IoTEnabledSmartFarmingApplication
MaximumMarks	4 Marks



- The different soil parameters (temperature, humidity, Soil Moisture) aresensedusingdifferent sensors, and the obtained value is stored in the IBM cloud.
- Arduino UNO is used as a processing unit that processes the data obtained fromsensorsandweatherdatafromweatherAPI.
- Node-red is used as a programming tool to wire the hardware, software, and APIs.TheMQTTprotocolisfollowedforcommunication.
- All the collected data are provided to the user through a mobile application that wasdeveloped using the MIT app inventor. The user could make a decision through anapp, whether to water the crop or not depending upon the sensor values. By usingtheapp,they canremotelyoperate themotorswitch.