SMARTFARMER - IOT ENABLED SMART FARMING APPLICATION

PROBLEM STATEMENT:

To create IoT-based agriculture system that helps the farmer in monitoring different parameters of his field like soil moisture, temperature, and humidity using some sensors.

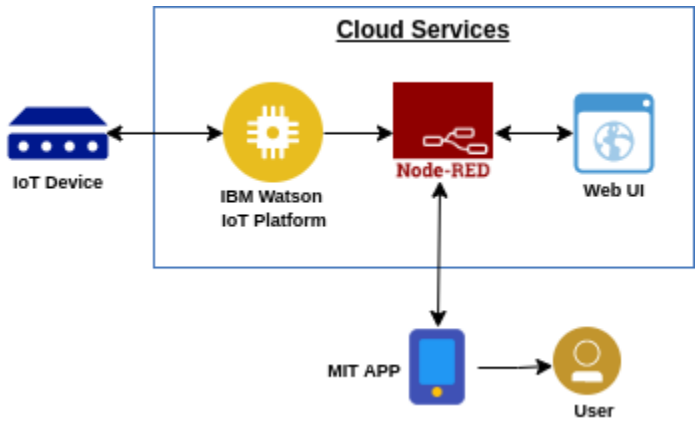
DESCRIPTION:

Remote sensing in agriculture is the revolutionizing the way the data is acquired from different nodes in farm 'IOT-based remote sensing utilizes sensors placed along with the farms like weather stations for gathering data, which is transmitted to analytical tools for analysis. Farmers can monitor the crops from the analytical dashboard and take actions based on the insights.

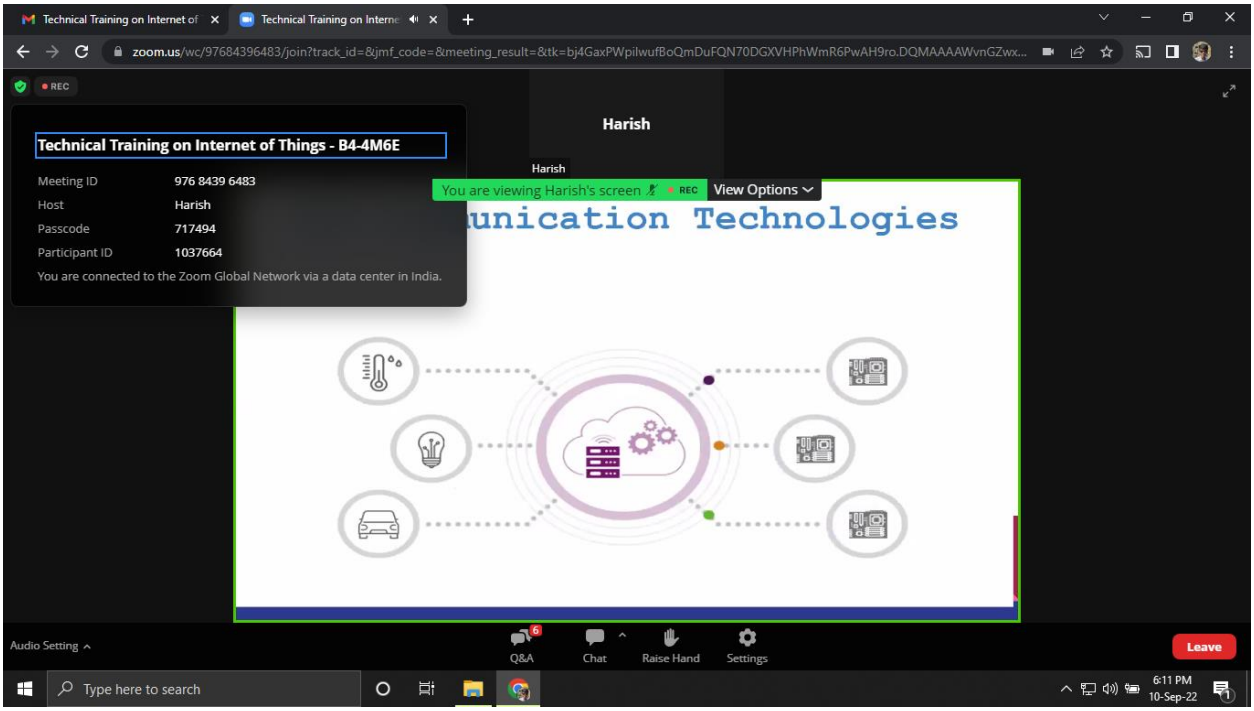
PROJECT OBJECTIVES:

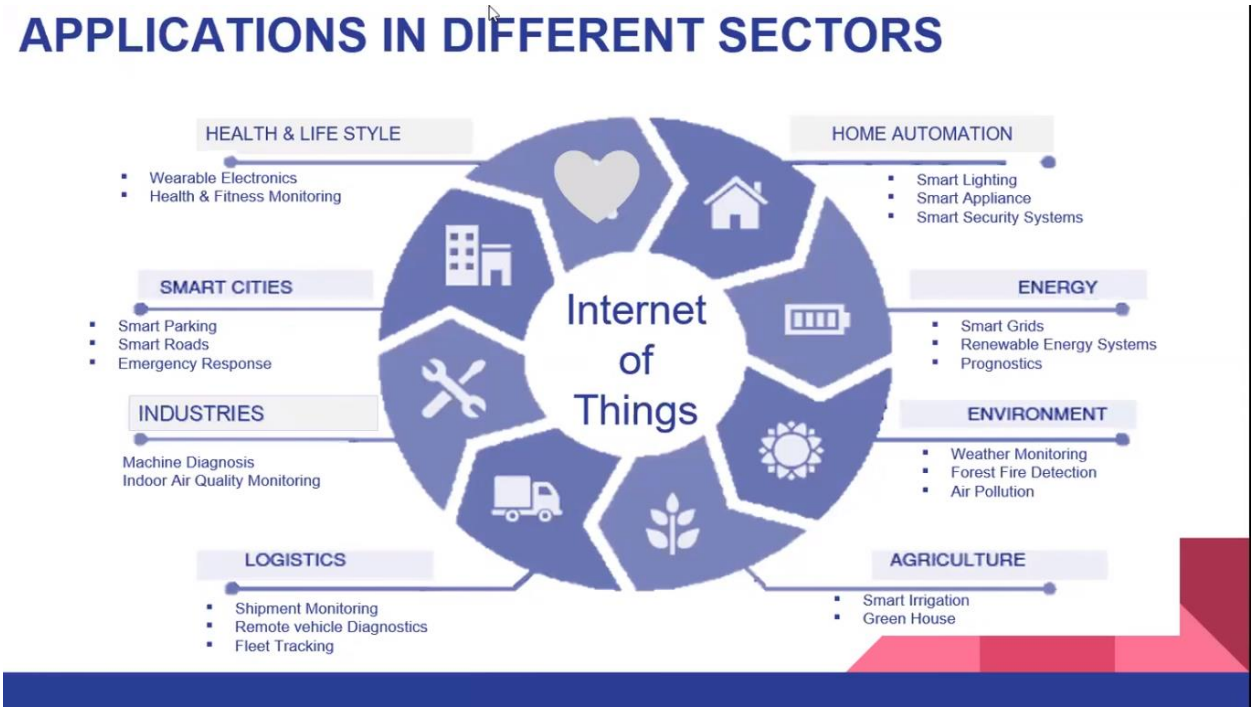
- Gain knowledge of Watson IoT Platform.
- Connecting IoT devices to the Watson IoT platform and exchanging the sensor data.
- Explore python client libraries of Watson IoT Platform.
- Gain knowledge on IBM Cloudant DB
- Configuring APIs using Node-RED for communicating with a mobile application.
- Creating a Mobile Application through which the user interacts with the IoT device.

TECHNICAL ARCHITECTURE:



SCREENSHOTS OF SESSION OUTCOMES:




APPLICATIONS IN DIFFERENT SECTORS
HEALTH & LIFE STYLE
Wearable Electronics
Health & Fitness Monitoring
HOME AUTOMATION
Smart Lighting
Smart Appliance
Smart Security Systems
SMART CITIES
Smart Parking
Smart Roads
Emergency Response
ENERGY
Smart Grids
Renewable Energy Systems
Prognostics
Internet of Things
INDUSTRIES
Machine Diagnosis
Indoor Air Quality Monitoring
ENVIRONMENT
Weather Monitoring
Forest Fire Detection
Air Pollution
LOGISTICS
Shipment Monitoring
Remote vehicle Diagnostics
Fleet Tracking
AGRICULTURE
Smart Irrigation
Green House