Project Objectives

By the end of this project you will:

- * Gain knowledge of Watson IoT Platform.
- * Connecting IoT devices to the Watson IoT platform and exchanging the sensor data.
- * Gain knowledge on IBM Cloudant DB
- * Explore Python client libraries of Watson IoT Platform.
- * Explore Python library for integrating OpenCV for accessing the Live Camera Input
- * Scan the QR code in live streaming and retrieve the QR code details
- * Gain knowledge of web application development.
- * Gain knowledge of storing the data in Cloudant DB
- * Generating QR codes with the required data.

Project Flow:

- * The parameters like hazardous gas levels, fire, humidity, and temperature data are published to the Watson IoT platform
- * The device will subscribe to the commands from the application and take decisions accordingly to switch on the rainwater sprinkler in case of emergencies
- * Sensor data is visualized in the Web Application
- * To accomplish this, we have to complete all the activities and tasks listed below:
- * Create and configure IBM Cloud Services
- * Create IBM Watson IoT Platform and Device
- * Create Node-RED service
- * Develop the Python Script
- * Develop the Python Script
- * Develop a web Application using Node-RED Service.
- * Develop the Web application using Node-RED
- * Testing the Web UI by giving the required inputs