

## Prerequisites

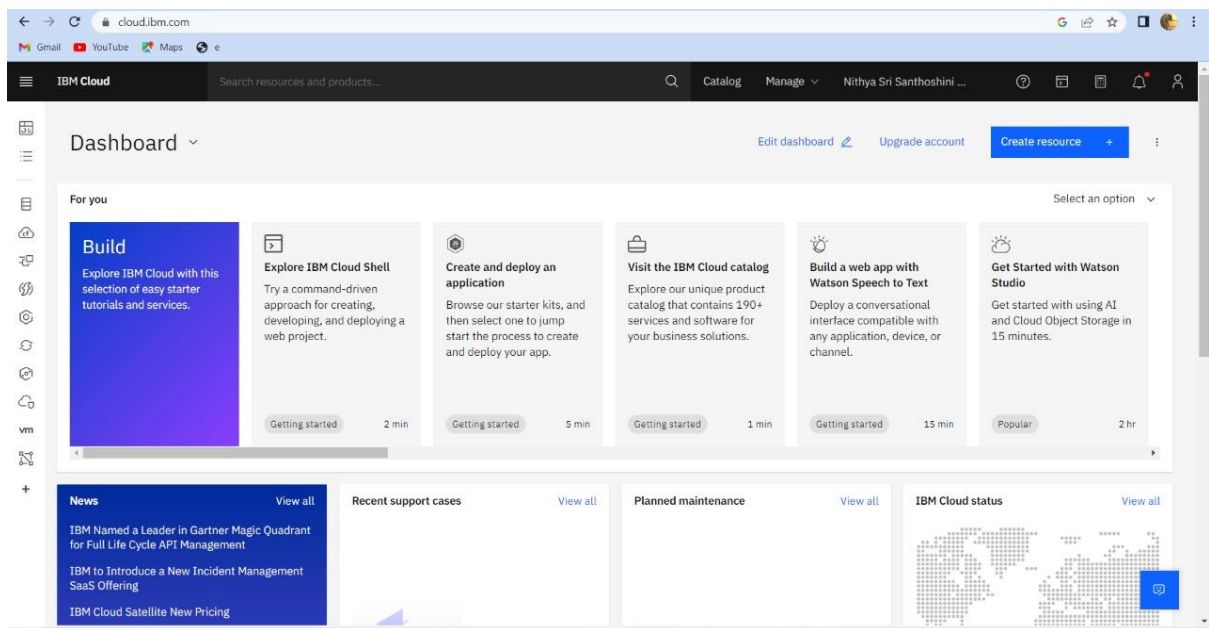
Date	17 November 2022
Team ID	PNT2022TMID47454
Project Name	Smartfarmer-IOT enabled smart farming

### Prerequisites:

To complete this project, the prerequisites are


- IBM Cloud Services
- IBM Watson IOT Platform
- Node-Red Service
- MIT App Inventor
- Software-Python
- Fast2sms

### IBM Cloud Services:






## IBM Watson IOT Platform:

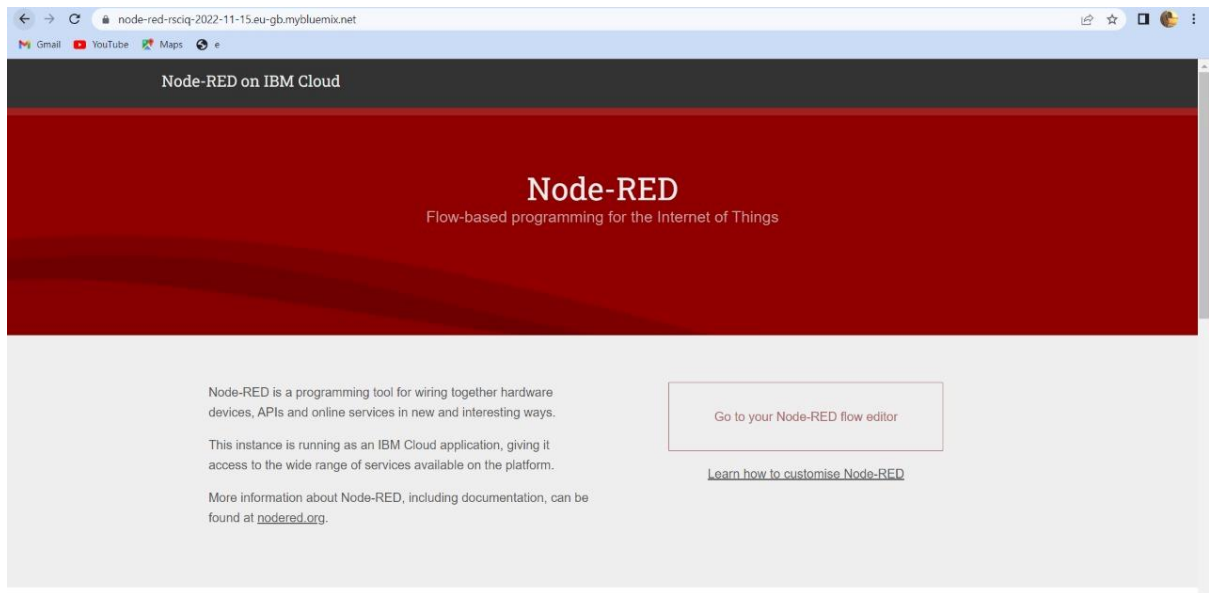
IBM Watson IoT platform acts as the mediator to connect the web application to IoT devices, so create the IBM Watson IoT platform.

Resource list							Create resource +
▼ Name	↑ Group	Location	Product	Status	Tags		
Q Filter by name or IP address...	Filter by group or org...	Filter...	Q Filter...	Q Filter...	Filter...		
▼ Analytics (0)							
▼ Blockchain (0)							
▼ Databases (2+)							
▼ Developer tools (3+)							
▼ Logging and monitoring (0)							
▼ Migration (0)							
▼ Integration (0+)							
▲ Internet of Things (1)							
 Internet of Things Platform-pt	Default	London	Internet of Things Platform	● Active	—		
▼ Security (0)							
▼ Mobile (0)							
▼ Other (0+)							

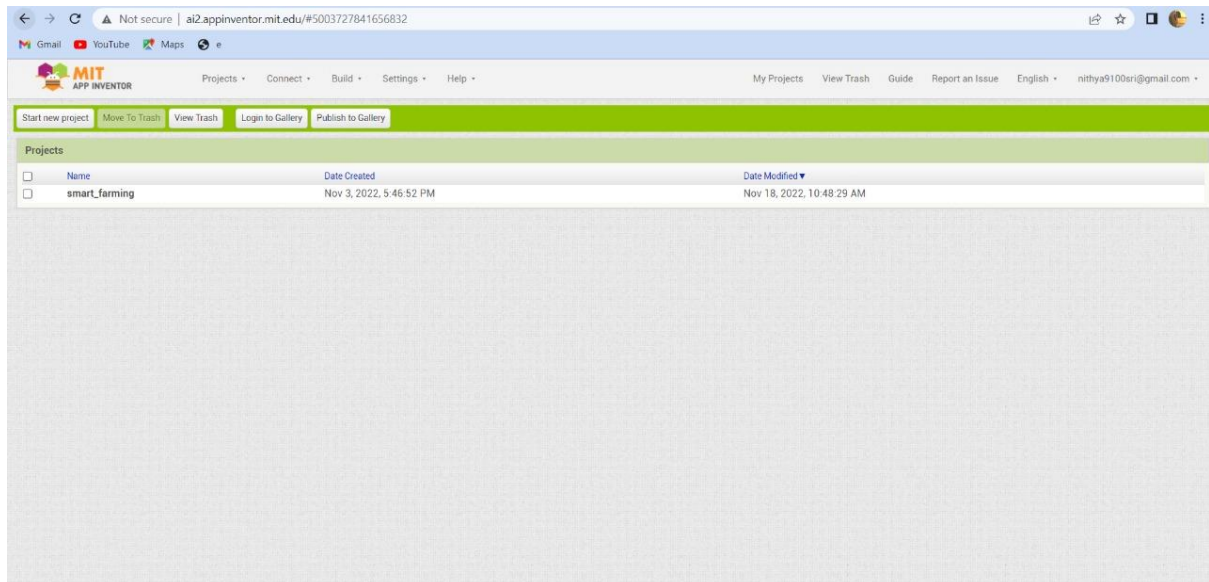
## Node-Red:

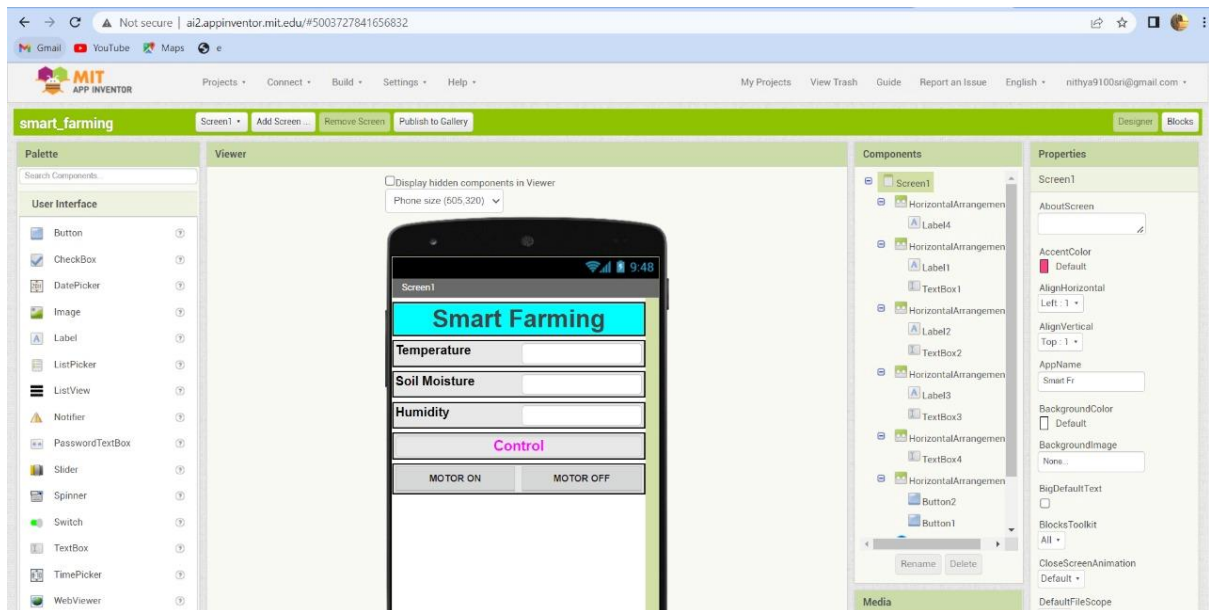
To create a web application, we need to create a Node-RED service.

Resource list							Create resource +
▼ Name	↑ Group	Location	Product	Status	Tags		
Q Filter by name or IP address...	Filter by group or org...	Filter...	Q Filter...	Q Filter...	Filter...		
▼ Analytics (0)							
▼ Blockchain (0)							
▼ Databases (2+)							
▲ Developer tools (3)							
 Continuous Delivery	Default	London	Continuous Delivery	● Active	—		
 Node RED RSCIQ 2022-11-15	Default	Global	Cloud Application	—	—		
 NodeREDRSCIQ2022-11-15	Default	London	Toolchain	—	—		
▼ Logging and monitoring (0)							
▼ Migration (0)							
▼ Integration (0+)							
▲ Internet of Things (1)							

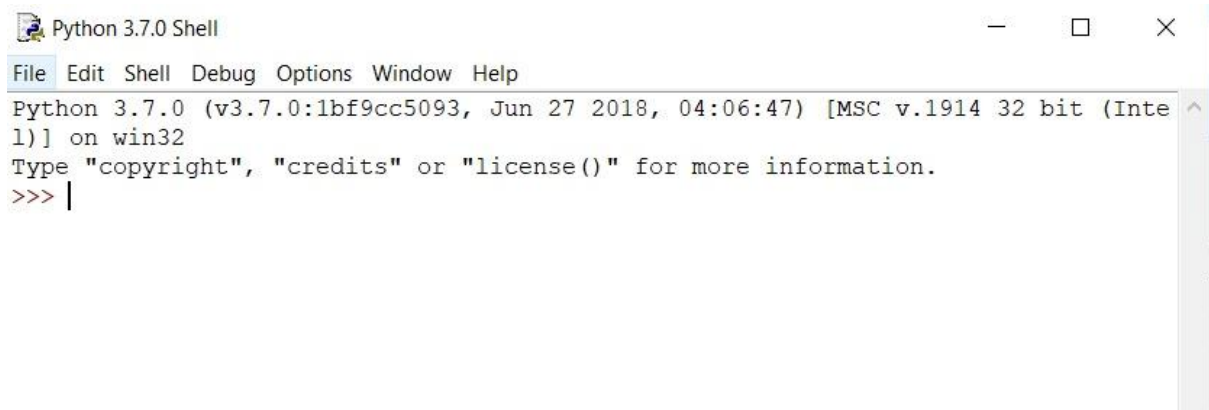


## MIT App inventor:





## Software-Python:



## Fast2sms:

The image shows two screenshots of the Fast2SMS website. The top screenshot is the homepage, which features a dark background with the Fast2SMS logo in the top left. Navigation links for 'Mobile' and 'Password' are in the top right, along with 'Login' and 'Sign Up' buttons. A large central banner reads 'SIGNUP & TEST BULK SMS SERVICE FOR FREE' and includes a 'SIGNUP NOW' button. The bottom screenshot shows the user dashboard after login. The dashboard has a sidebar with options like 'Bulk SMS', 'DLT SMS', 'Quick SMS', 'Address Book', 'Delivery Reports', 'Transactions', 'Dev API', 'Settings', and 'Help'. The main content area is titled 'PROMOTIONAL' and contains a form for sending SMS. The form fields include 'Sender ID' (FastSM), 'Mobile Number' (+91), and 'Message' (Dearuseryourotp:). There are buttons for 'SEND' and 'SCHEDULE'. A 'FEATURES' section on the right lists benefits like 'No DLT Registration Required' and 'SMS Delivery After Approval'.

fast2sms.com

FAST2SMS

Mobile Password Login Sign Up

**SIGNUP & TEST BULK SMS SERVICE FOR FREE**

Our simple platform helps you to Send **DLT SMS**, Promotional, Marketing, OTP & API SMS.  
Test our Bulk SMS Service - **Free ₹50 Credit After Signup**

**SIGNUP NOW**

Or Watch Demo Video

fast2sms.com/dashboard/sms/bulk

FAST2SMS

Account Info 08:43:17 PM NITHYA SRI...

₹55.00 ADD CREDIT

Bulk SMS

DLT SMS

Quick SMS

Address Book

Delivery Reports

Transactions

Dev API

Settings

Help

PROMOTIONAL SERVICE

Sender ID

FastSM

Mobile Number

+91

Message (maximum 60 characters)

Dearuseryourotp:

- Sent via ftwsm

35 / 1 SMS

SEND OR SCHEDULE

**FEATURES**

For Marketing & Promotional SMS

- No DLT Registration Required
- Only for Non DND numbers
- SMS Delivery After Approval
- Send SMS from 10 AM - 9 PM
- Personal SMS not allowed

Python script for generating the random sensor values - Temperature, Flame Level and Gas Level to the IBM Watson IoT Platform.