Smart Farmer- IOT Enabled Smart Farming Application

DESIGN SPRINT – I
DELIVERY OF SPRINT 1

TITLE	**Smart Farmer-IOT Enabled Smart Farming Application**
DOMAIN NAME	INTERNET OF THINGS
TEAM ID	PNT2022TMID14876
LEADER NAME	SAJINA S
TEAM MEMBER NAME	NITHISH S ANTONY SAMY DAVID A KAVIPRASATH V
MENTOR NAME	BOOPATHY S

DELIVERY OF SPRINT 1:

I.   IBM Watson IOT service:

Goal:

- To create an IBM Watson IOT service and create a device using it.

Steps to create an IBM Watson IOT service:

- Click on catalog in IBM cloud account.

- Click on services.

- Enter as Internet of thing platform.

- Enter region and pricing plan.

- Enter service name and click create.

- Click on launch.

- Then IBM Watson OT platform opens.

- Click on sign in.

- Enter IBM Id.

- Enter Password.

- Then you can access IBM Watson IOT platform.

Steps to create a device:

- Click on devices in IBM Watson IOT platform.

- Choose to create a device.

- Enter the device type as Node MCU.

- Enter the device ID as 12345.

- Click next.

- Enter device credentials (optional).

- Click next.

- Enter the authentication token (optional).

- Click on continue.

- Click on next.

- Click finish.

Device is created successfully, and we can see device credentials.

Organization ID	**023f97**
Device Type	Node MCU
Device ID	12345
Authentication Method	Use- token- auth
Authentication Token	CT8N7Sz?giHVFxk-V?

Device Credentials:

Device Credentials

You registered your device to the organization. Add these credentials to the device to connect it to the platform. After the device is connected, you can navigate to view connection and event details.

Organization ID	023f97
Device Type	NodeMCU
Device ID	12345
Authentication Method	use-token-auth
Authentication Token	CT8N7Sz?giHVFxk-V?

II. Creation of Node – Red Service:

Goal:

- To create a Node Red service.

Steps to create a Node-Red service:

- Click on catalog in IBM cloud account.

- Click on services.

- Enter as Node red service.

- Node red app opens click on get started.

- Enter app name as default.

- Enter region as London.

- Choose pricing plan as lite.

- Click create.

- You will be redirected to a new page.

- Click on deploy your app.

- Choose cloud foundry.

- Enter IBM API key (by clicking new+).

- Choose memory size as default.

- Enter region as London.

- Click next.

- Click create.

- Status will be updated after creation.

- Click on App URL.

- Click next.

- Choose not recommended.

- Click next.

- You will see Node red page.

- Go to your node red flow editor.

- In the left panel choose nodes.

- In the right panel choose context mode.

- In hello node red inject node enter the data as string and choose to repeat as none.

- Click done.

- Click debug node.

- Choose to deploy.

- When you click button on inject node you can see the message in debug console.

Account Creation:

Details

App URL	https://node-red-br.eu-gb.mybluemix.net
Source	https://eu-gb.git.cloud.ibm.com/sajupikachu/NodeREDBRMXW202...
Resource group	Default
Deployment target	Node RED BRMXW 2022-11-12
Created	11/12/2022

Interface: