

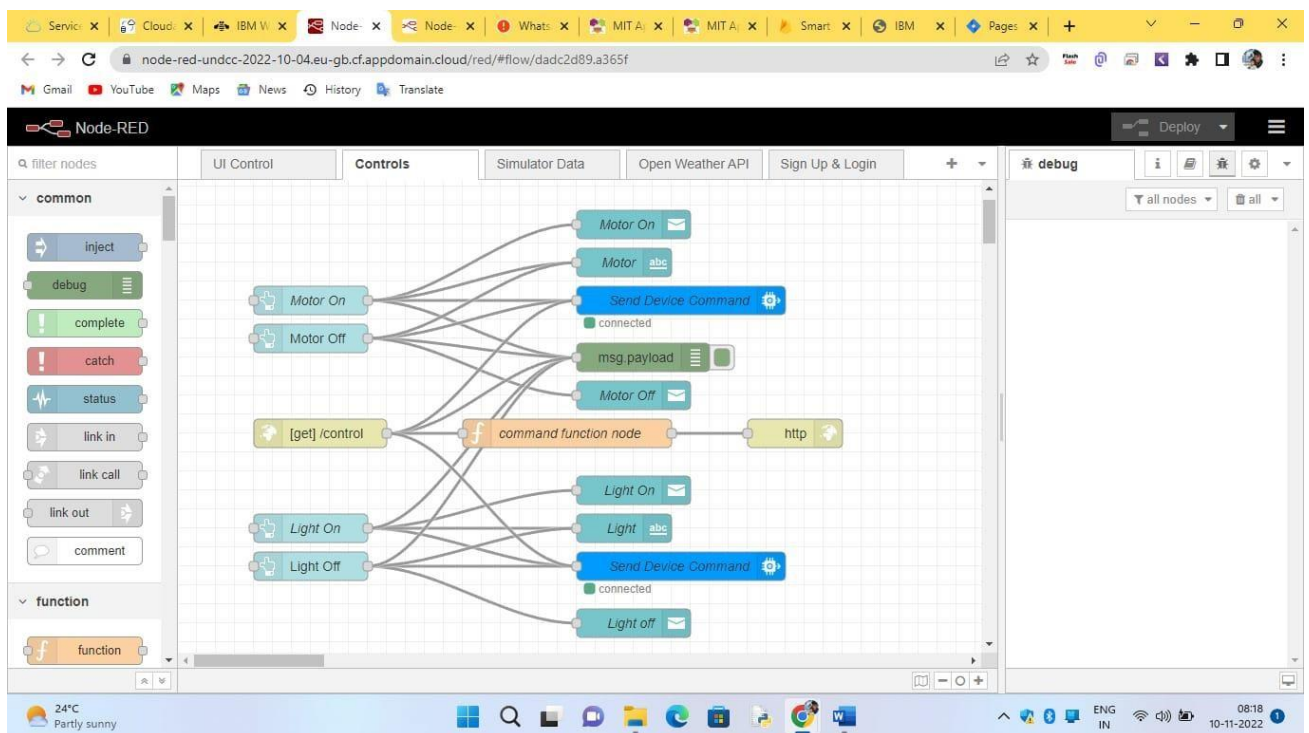
Project Development Phase

Sprint - 4

(Web Application Motor and Light Controls Testing)

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Team ID	PNT2022TMID44926
Project Name	Smart Farmer IOT Enabled Smart Farming Application

Node-RED Dashboard for Motor and Light Control



Press Motor ON Button the Motor ON Comment will send to Node-RED

The top screenshot shows a web interface for a smart home system. It has a blue header with a menu icon and the text 'Controls'. Below the header, there are three sections: 'Motor Controls', 'Light Controls', and 'Home Button'. The 'Motor Controls' section contains two buttons: a green 'MOTOR ON' button and a red 'MOTOR OFF' button. The 'Light Controls' section contains two buttons: a green 'LIGHT ON' button and a red 'LIGHT OFF' button. The 'Home Button' section contains a blue 'HOME' button. Below the buttons, there are two JSON objects: `{ "command": "Motoron" }` and `{ "command": "lightoff" }`. A red box highlights the 'Motor ON' button and the first JSON object. A notification in the top right corner says 'Motor ON command sent'.

The bottom screenshot shows the Node-RED flow editor. The left sidebar has a 'common' section with nodes like 'inject', 'debug', 'complete', 'catch', 'status', 'link in', 'link call', 'link out', and 'comment'. The main workspace shows a flow with several nodes: 'Motor On', 'Motor Off', 'Light On', 'Light Off', 'Send Device Command', 'msg payload', 'command function node', and 'http'. The 'Motor On' button is connected to the 'Send Device Command' node. The 'Send Device Command' node is connected to the 'msg payload' node. The 'msg payload' node is connected to the 'command function node'. The 'command function node' is connected to the 'http' node. A red box highlights the debug console, which shows the message payload: `{ command: "Motoron" }`.

Press Motor OFF Button the Motor OFF Comment will send to Node-RED

The top screenshot displays a web interface for a home automation system. It features a blue header bar with a 'Controls' menu. Below the header, there are four main sections: 'Motor Control', 'Light Controls', 'Home Button', and a 'HOME' button. The 'Motor Control' section contains two buttons: 'MOTOR ON' (green) and 'MOTOR OFF' (red). The 'Light Controls' section contains two buttons: 'LIGHT ON' (green) and 'LIGHT OFF' (red). The 'HOME Button' section contains a blue 'HOME' button. A red box highlights the 'MOTOR OFF' button. Below the buttons, there is a text area showing the command being sent: `{ "command": "motoroff" }`. A notification at the top right of the interface states 'Motor OFF command sent'.

The bottom screenshot shows the Node-RED flow editor. The left sidebar contains a list of nodes: 'common' (inject, debug, complete, catch, status, link in, link call, link out, comment) and 'function' (function). The main workspace shows a complex wiring of nodes. The flow starts with a 'Motor Off' button, which triggers a 'Send Device Command' node. This node is connected to a 'msg.payload' node, which then triggers a 'command function node'. The 'command function node' is connected to an 'http' node. The right sidebar shows a 'debug' console with a log entry: `11/10/2022, 8:18:26 AM node: a17b48e0e0dd58 msg.payload: Object { command: "motoroff" }`. A red box highlights this log entry.

Press Light ON Button the Light ON Comment will send to Node-RED

The image displays two screenshots related to a Node-RED project. The top screenshot shows a web application interface with a 'Controls' section. It features three main categories: 'Motor Controls', 'Light Controls', and 'Home Button'. Under 'Light Controls', there are four buttons: 'MOTOR ON' (green), 'MOTOR OFF' (red), 'LIGHT ON' (green), and 'LIGHT OFF' (red). The 'LIGHT ON' button is highlighted with a red box. Below the buttons, there are two JSON objects: `{ "command": "motoroff" }` and `{ "command": "lighton" }`. A red box also highlights a message in the top right corner: 'Light ON command sent'.

The bottom screenshot shows the Node-RED interface. The 'Controls' tab is selected. The flow contains several nodes: 'Motor On', 'Motor Off', 'Light On', 'Light Off', 'Send Device Command', 'msg.payload', 'command function node', and 'http'. The 'command function node' is highlighted with a red box. The 'debug' console on the right shows three messages, with the last one highlighted by a red box: `{ "command": "lighton" }`.

Press Light OFF Button the Light OFF Comment will send to Node-RED

The image displays two screenshots related to a Node-RED project. The top screenshot shows a web interface with a 'Controls' section. It features four buttons: 'MOTOR ON' (green), 'MOTOR OFF' (red), 'LIGHT ON' (green), and 'LIGHT OFF' (red). The 'LIGHT OFF' button is highlighted with a red box. Below the buttons, the JSON payloads are shown: `{"command": "motoroff"}` for the motor buttons and `{"command": "lightoff"}` for the light buttons. A notification bar at the top right of the interface states 'Light OFF command sent'.

The bottom screenshot shows the Node-RED flow editor. The flow starts with a 'Motor On' button connected to a 'Motor' node, which then connects to a 'Send Device Command' node. Similarly, a 'Motor Off' button connects to a 'Motor Off' node, which also connects to the 'Send Device Command' node. The 'Send Device Command' node is connected to a 'msg.payload' node, which then connects to a 'http' node. A 'command function node' is also connected to the 'http' node. The 'Light On' button connects to a 'Light' node, which connects to a 'Send Device Command' node. The 'Light Off' button connects to a 'Light off' node, which also connects to the 'Send Device Command' node. The 'Send Device Command' node is connected to a 'msg.payload' node, which then connects to a 'http' node. A 'command function node' is also connected to the 'http' node. The 'debug' console on the right shows the following log entries:

```
11/10/2022, 8:18:14 AM node: a17b48e0 e0dd58  
msg.payload : Object  
{ command: "Motoron" }  
11/10/2022, 8:18:26 AM node: a17b48e0 e0dd58  
msg.payload : Object  
{ command: "motoroff" }  
11/10/2022, 8:18:37 AM node: a17b48e0 e0dd58  
msg.payload : Object  
{ command: "lightoff" }
```

The log entry for the 'lightoff' command is highlighted with a red box.