ECE 3502 – IoT Domain Analyst

Week 2

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Aim: Create a Web based application creation using Node Red.

Procedure:

Step 1) Select Nodes.

Step 2) Set properties of the Nodes such as name, message etc and then click Done.
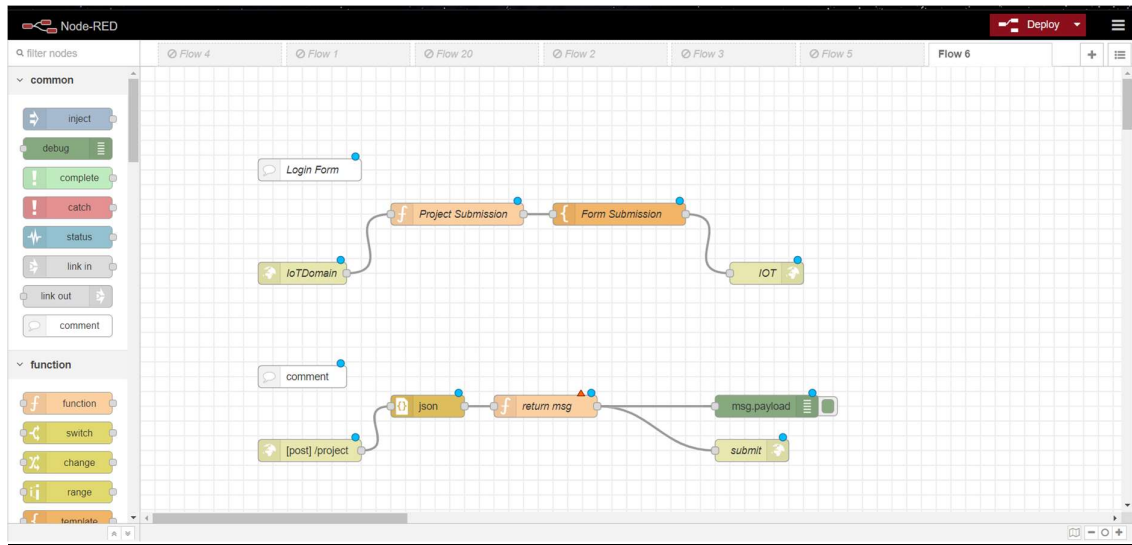
Step 3) Fill requirements and necessary details of all the Nodes.

Step 4) Select and fill form requirements then click Done.

Step 5) Click Deploy and Confirm.

Step 6) The output is visible in the debug menu as well as the ui page.
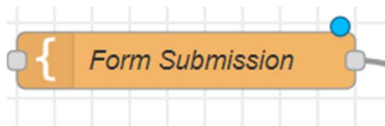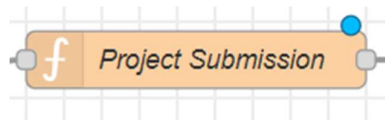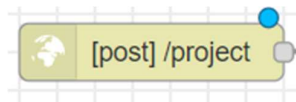
Screenshots of Flow:

Node:

Json Node:

Form Node:

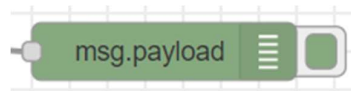### Function Node:

Http Node:

Debug Node:

<u>Debug Window-</u>
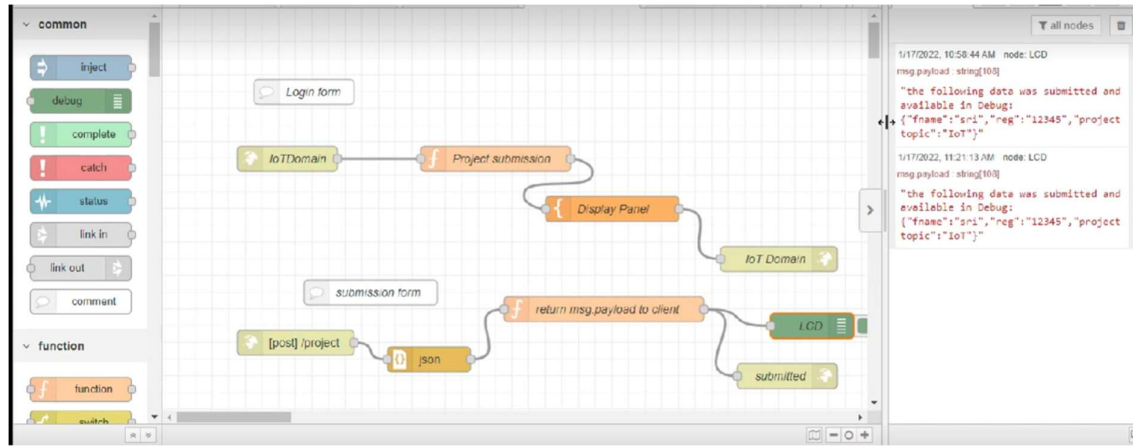
Node Property Window

Edit function node

Delete   Cancel   **Done**

⚙ **Properties**   ⚙   📄   🔲

🏷 Name | Project Submission | 📖▾

| ⚙ Setup | On Start | **On Message** | On Stop |

```
1  msg.url="project";
2  return msg;
```

○ Enabled

Edit http in node

Delete   Cancel   **Done**

⚙ **Properties**   ⚙   📄   🔲

☰ Method | GET   ⌄ |

🌐 URL | /IoTDomain |

🏷 Name | IoTDomain |

○ Enabled

Edit http response node

Delete   Cancel   **Done**

⚙ **Properties**   ⚙ 📄 ▣

🏷 Name   IOT

← Status code   msg.statusCode

☰ Headers

▲

▼

➕ add

The messages sent to this node **must** originate from an *http input* node

○ Enabled

Edit json node

Delete   Cancel   **Done**

⚙ **Properties**   ⚙ 📄 ⛶

⊙ Action   Convert between JSON String & Object ⌄

⋯ Property   msg. payload

🏷 Name   Name

Object to JSON options

☐ Format JSON string

○ Enabled

Edit function node

Delete   Cancel   Done

⚙ Properties   ⚙ 📄 🔲

🏷 Name   return msg   📖▾

⚙ Setup | On Start | **On Message** | On Stop

```
1  msg.payload="the following data was uploaded"
2  and available in the msg.payload "+msg.payload";
3  return msg;
```

○ Enabled

Edit http in node

Delete   Cancel   Done

⚙ Properties   ⚙ 📄 ⬛

≣ Method   POST   ⌄

                ☐ Accept file uploads?

🌐 URL   /project

🏷 Name   Name

○ Enabled

Edit http response node

Delete   Cancel   Done

⚙ **Properties**   ⚙ 📄 ⬚

🏷 Name   submit

← Status code   msg.statusCode

☰ Headers

+ add

The messages sent to this node **must** originate from an *http input* node

○ Enabled

Edit template node

Delete   Cancel   **Done**

⚙ **Properties**   ⚙ 📄 🔲

🏷 Name   Form Submission   📕▾

⋯ Property   ▾ msg. payload

📄 Template   Syntax Highlight: HTML ▾ ⤢

```
 1   <!DOCTYPE html>
 2 ▾ <html>
 3 ▾     <head>
 4         <h1 style="background-color:Dogerblue;">Iot
❌ 5 ▴   </head>
❌ 6 ▾   <body>
 7         <p style="background-color:Tomato"></p>
 8 ▾   <OL>
 9 ▾       <LI>
10             Enter your name
11 ▴       </LI>
12 ▴   ◂
```

</> Format   Mustache template   ▾

→ Output as   Plain text   ▾

○ Enabled

Output-