

ECE 3502 – IoT Domain Analyst

Week 2

Name-Tanmay Mahajan

Reg. no.-19bce1735

Prof.- Dr. Sriramalakshmi P

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.

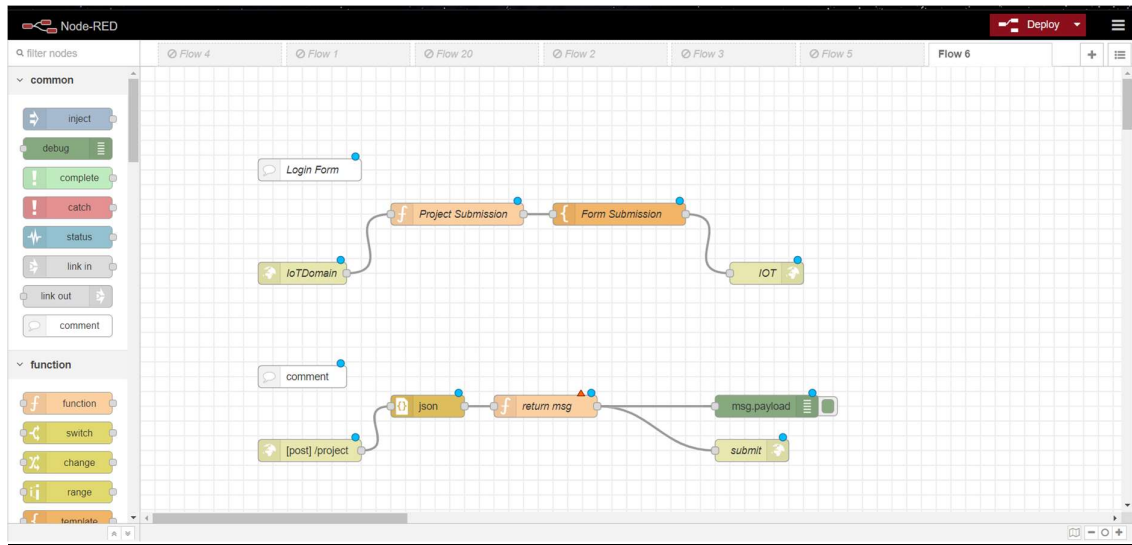
Step 3) Fill requirements and necessary details of all the Nodes.

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:

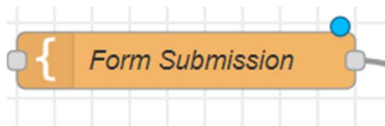


Node:

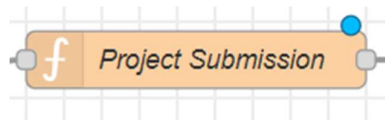
Json Node:



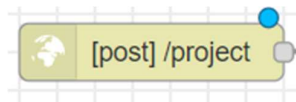
Form Node:



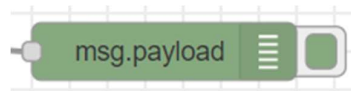
Function Node:



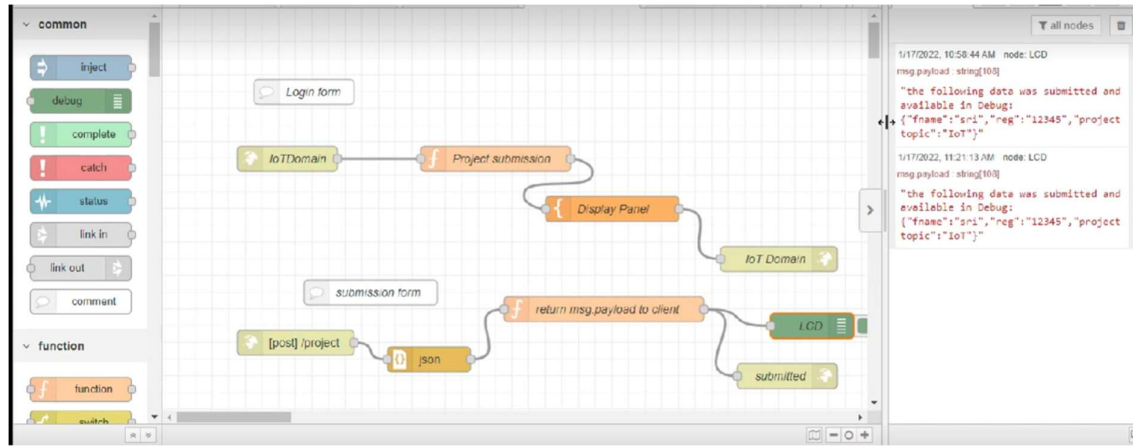
Http Node:



Debug Node:



Debug Window-



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-

IoT Domain

1. Enter your name
2. Registration Number

Project mark

First name:

Reg No:

Project Title:

The screenshot shows the ProjectMark website homepage. The header includes the ProjectMark logo, navigation links for 'For Companies', 'For Professionals', and 'Access Network', and buttons for 'Login' and 'Sign Up Free'. The main content area features the headline 'Construction Marketing Made Easy' and a sub-headline 'Connect your company, project and employee data to provide critical infrastructure and streamlined marketing solutions.' Below this are two buttons: 'Request a Demo' and 'Sign Up Free'. The background of the main content area is a dark blue gradient with several overlapping white and light blue cards. These cards display various data visualizations: a circular network diagram, a bar chart, a line graph, a pie chart showing 75.9%, and a table of data. The bottom right corner of the page has a 'Request a Demo' button and a chat icon.