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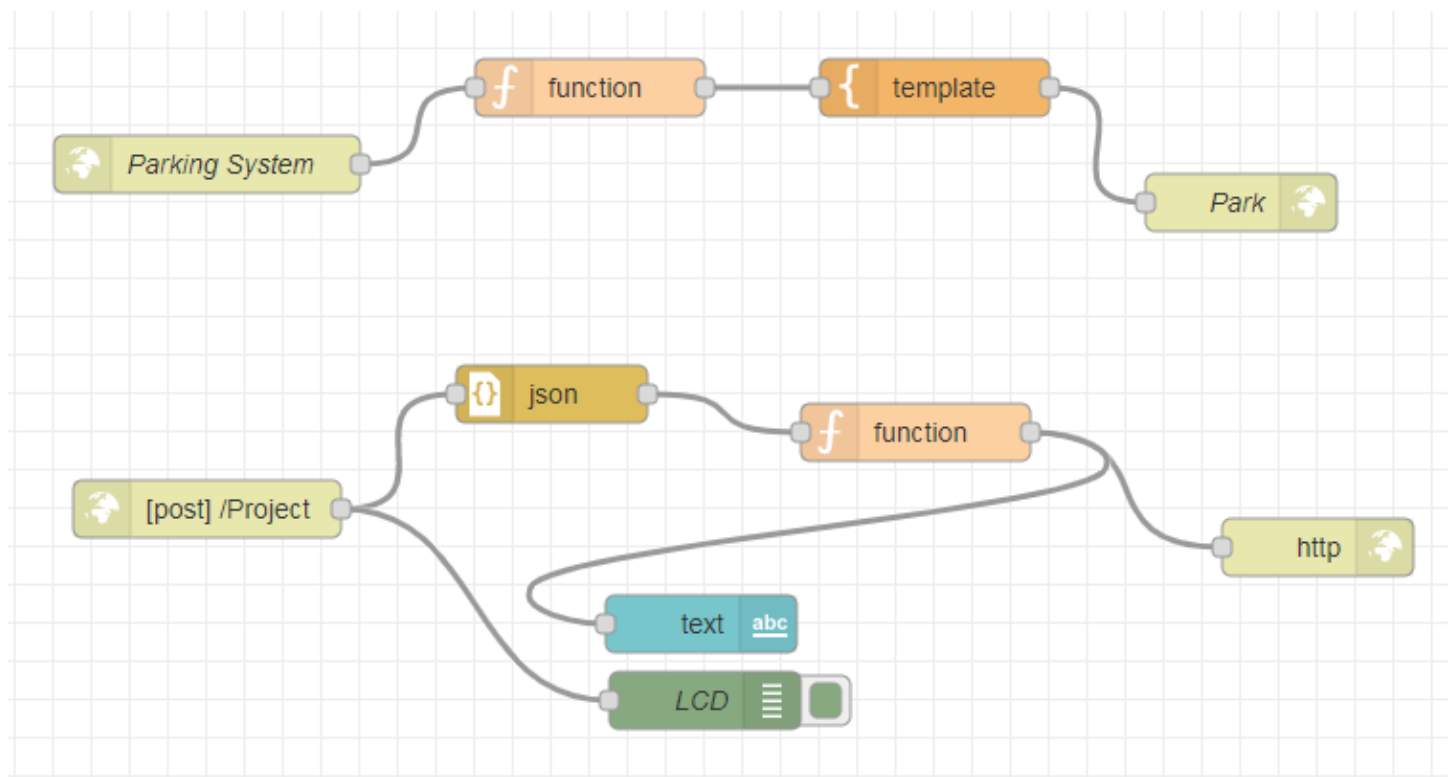
## Lab 2

### Task:

Using node red build a web based application to automate smart parking system in metro station. Create a sreative and stylish form(Through HTML and CSS) to get car owner details to automate the parking system. Display the retrieved details in UI and debug monitor.

Create a hyperlink to know the parking rates of metro station.

### Flow:



## Nodes:

Edit http in node

Delete Cancel Done

⚙ Properties

Method GET

URL /Index

Name Parking System

Edit function node

Delete Cancel Done

⚙ Properties

Name Name

Setup Function Close

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

Edit template node

Delete Cancel Done

⚙ Properties

Name Name

Property msg.payload

Template Syntax Highlight: HTML

```
1 <!DOCTYPE html>
2
3 <html lang="en" >
4
5 <head>
6   <meta charset="UTF-8">
7
8   <title>Smart Parking System</title>
9
10  <meta name="viewport" content="width=device-width"
11
```

</> Format Mustache template

→ Output as Plain text

Edit http in node

Delete
Cancel
Done

Properties

Method
POST

☐ Accept file uploads?

URL
/Project

Name
Name

Edit function node

Delete
Cancel
Done

Properties

Name
Name

Setup
Function
Close

```

1 msg.payload="Data submitted and available debug: "+msg.payload;
2 return msg;

```

### HTML Code:

```

<!DOCTYPE html>
<html lang="en" >
<head>
<meta charset="UTF-8">
<title>Smart Parking System</title>
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/normalize/5.0.0/normalize.min.css">
<style>
@import url(https://fonts.googleapis.com/css?family=Lato:300,400,700);

```

```
body {
background-color: #e6e6e6;
font-size: 100%;
font-family: 'Lato', sans-serif;
font-weight: 400;
}

div, textarea, input {
-moz-box-sizing: border-box;
-webkit-box-sizing: border-box;
box-sizing: border-box;
}

.container {
max-width: 510px;
min-width: 324px;
margin: 50px auto 0px;
background-color: #fff;
border: 1px solid #cfcfcf;
border-bottom: 3px solid #ccc;
}

.row {
width: 100%;
margin: 0 0 1em 0;
padding: 0 2.5em;
}

.row.header {
padding: 1.5em 2.5em;
border-bottom: 1px solid #ccc;
background: url(https://image.shutterstock.com/image-vector/parking-zone-car-area-space-600w-1176392119.jpg) left -80px;
color: #fff;
}

.row.body {
padding: .5em 2.5em 1em;
}

.pull-right {
float: right;
}

h1 {
font-family: 'Lato', sans-serif;
font-weight: 300;
display: inline-block;
font-weight: 100;
```

```
background-color: white;
color: black;
text-shadow: 2px 2px 5px red;
font-size: 3.5em;
border-bottom: 1px solid rgba(255, 255, 255, 0.3);
margin: 0 0 0.1em 0;
padding: 0 0 0.4em 0;
}
```

```
h3 {
font-family: 'Lato', sans-serif;
font-weight: 400;
font-size: 1.25em;
color: black;
text-shadow: 2px 2px 5px red;
margin: 1em 0 0.4em 0;
}
```

```
.btn {
font-size: 1.0625em;
display: inline-block;
padding: 0.74em 1.5em;
margin: 1.5em 0 0;
color: #fff;
border-width: 0 0 0 0;
border-bottom: 5px solid;
text-transform: uppercase;
background-color: #b3b3b3;
border-bottom-color: #8c8c8c;
font-family: 'Lato', sans-serif;
font-weight: 300;
}
```

```
.btn:hover {
background-color: #bfbfbf;
}
```

```
.btn.btn-submit {
background-color: #4f6fad;
border-bottom-color: #374d78;
}
```

```
.btn.btn-submit:hover {
background-color: #5f7db6;
}
```

```
form {
max-width: 100%;
```

```
display: block;
}
form ul {
margin: 0;
padding: 0;
list-style: none;
}
form ul li {
margin: 0 0 0.25em 0;
clear: both;
display: inline-block;
width: 100%;
}
form ul li:last-child {
margin: 0;
}
form ul li p {
margin: 0;
padding: 0;
float: left;
}
form ul li p.right {
float: right;
}
form ul li .divider {
margin: 0.5em 0 0.5em 0;
border: 0;
height: 1px;
width: 100%;
display: block;
background-color: #4f6fad;
background-image: linear-gradient(to right, #ee9cb4, #4f6fad);
}
form ul li .req {
color: #ee9cb4;
}
form label {
display: block;
margin: 0 0 0.5em 0;
color: #4f6fad;
font-size: 1em;
}
```

```
form input {
margin: 0 0 0.5em 0;
border: 1px solid #ccc;
padding: 6px 10px;
color: #555;
font-size: 1em;
}
form textarea {
border: 1px solid #ccc;
padding: 6px 10px;
width: 100%;
color: #555;
}
form small {
color: #4f6fad;
margin: 0 0 0 0.5em;
}
@media only screen and (max-width: 480px) {
.pull-right {
float: none;
}
input {
width: 100%;
}
label {
width: 100%;
display: inline-block;
float: left;
clear: both;
}
li, p {
width: 100%;
}
input.btn {
margin: 1.5em 0 0.5em;
}
h1 {
font-size: 2.25em;
}
h3 {
font-size: 1.125em;
```

```

}
li small {
display: none;
}
}

</style>
</head>
<body>
<!-- partial:index.partial.html -->

<div class="container">
<div class="row header">
<h1>Smart Parking System &nbsp;</h1>
<h3>Fill out the form below to book a slot!</h3>
</div>
<div class="row body">
<p><a href = "Parking rates at metro station.docx" > See the rate list here</a></p>
<form method="post" action="/Project">
<ul>
<li>
<p class="left">
<label for="first_name">first name</label>
<input type="text" name="first_name" placeholder="Alpanshu" />
</p>
<p class="pull-right">
<label for="last_name">last name</label>
<input type="text" name="last_name" placeholder="Kataria" />
</p>
</li>
<li>
<p>
<label for="email">email <span class="req">*</span></label>
<input type="email" name="email" placeholder="alpanshu.kataria@gmail.com" />
</p>
</li>
<li>
<p>
<label for="Mob. No.">Mob. No.<span class="req">*</span></label>
<input type="Mob. No." name="Mob. No." placeholder="Mob. No." />
</p>
</li>

```



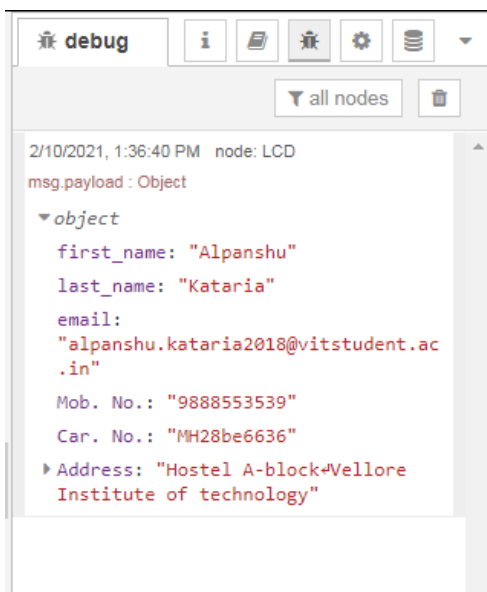
```

</li>
<p>
<label for="Car. No.">Car. No.<span class="req">*</span></label>
<input type="Car. No." name="Car. No." placeholder="Car. No." />
</p>
</li>
<li><div class="divider"></div></li>
<li>
<label for="Address">Address</label>
<textarea cols="46" rows="3" name="Address"></textarea>
</li>
<li>
<input class="btn btn-submit" type="submit" value="Submit" />
<small>or press <strong>enter</strong></small>
</li>
</ul>
</form>
</div>
</div>

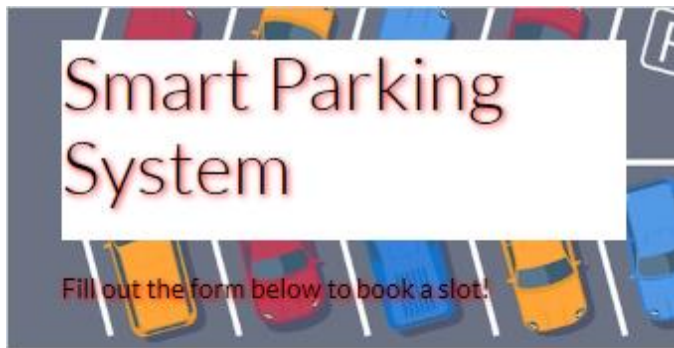
<!-- partial -->
</body>
</html>

```

### **Debug monitor:**



## Web Page:



[See the rate list here](#)

first name last name

Alpanshu Kataria

email \*

alpanshu.kataria2018@vit

Mob. No.\*

9888553539

Car. No.\*

MH28be6636

Address

Hostel A-block  
Vellore Institute of technology

**SUBMIT** or press enter

Hyperlink to open Rate list

## Rate list document:

*Parking rates at metro station:*

Vehicle	Charges(per hour)
1.Car	Rs. 80
2. Bike	Rs. 40
3. Cycle	Rs. 15

**Dashboard:**

Lab2		
	<div>Data submitted and available debug: { "first_name": "Alpanshu", "last_name": "Kataria", "email": "alpanshu.kataria2018@vitstudent.ac.in", "Mob. No.": "9888553539", "Car. No.": "MH28be6636", "Address": "Hostel A-block\r\nVellore Institute of technology" }</div>	