Week 10 - Lab Task (MVC Architecture & Route Handling using Express)

Task1:

Code:

App.js:

```
const express = require('express')
const app = express()

app.get('/winter', function (req, res) {

  res.sendFile('/winter.html',{root:__dirname})
});

app.get('/spring', function (req, res) {

  res.sendFile('/spring.html',{root:__dirname})
});

app.get('/summer', function (req, res) {

  res.sendFile('/summer.html',{root:__dirname})
}).listen(3111);
```

Winter.html:

```
<html>
<head>
<title>Winter</title>
</head>
<body>

<h1>Winter</h1>
<p>SNOW SNOW SNOW I love winter because of SNOW but the fever and
    human body unable to handle it I kinda feel sick...
</p>

</body>
</html>
```

Summer.html:

```html
<html>
<head>
<title>Summer</title>
</head>
<body>

<h1>Summer</h1>
<p>I hate as well as like summer because of its hot weather I hate it
    and due to its different varities of fruits I love it
</p>

</body>
</html>
```

Spring.html:

```html
<html>
<head>
<title>Page Title</title>
</head>
<body>

<h1>Spring</h1>
<p>Spring always brings cool air and some leaves falling down</p>

</body>
</html>
```
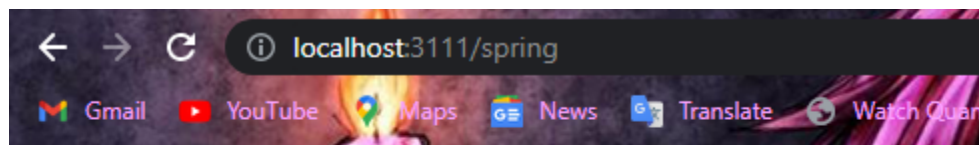
Output Command:

```
PS C:\Users\Hyder\Desktop\Web Lab 10\Task1> node app.js
```
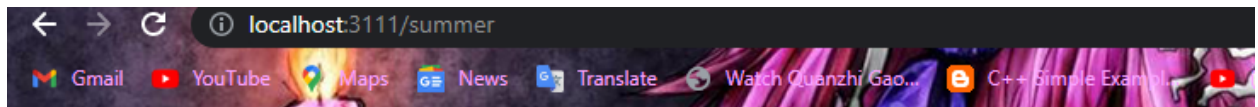
Output:

Winter

SNOW SNOW SNOW I love winter because of SNOW but the fever and human body unable to handle it I kinda feel sick...

Summer

I hate as well as like summer because of its hot weather I hate it and due to its different varities of fruits I love it

Task2:

Code:

```
const express = require('express')
const app = express()

app.get('/proj', function (req, res) {
  res.sendFile('/proj.html',{root:__dirname});
});

app.get('/project', function (req, res) {
    res.redirect('/proj');
});

app.get('/my-project', function (req, res) {
res.redirect('/proj');
});

app.get('/myproject', function (req, res) {
    res.redirect('/proj');
});
app.use(function(req,res){

    res.sendfile('/404.html', {root:__dirname});
})
app.listen(3111)
```

404.html:

```html
<html>
<head>
<title>Error Page</title>
</head>
<body>
    <h1>404 Web Page Not Found</h1>
</body>
</html>
```

Proj.html:

```html
<html>
<head>
<title>Project Name with My Information</title>
</head>
<body>

<p>Name: Muhammad Hyder Ali</p>
<p>Roll No: 19F-0904</p>
<p>Project: Automobile Spare Parts Selling</p>
</body>
</html>
```
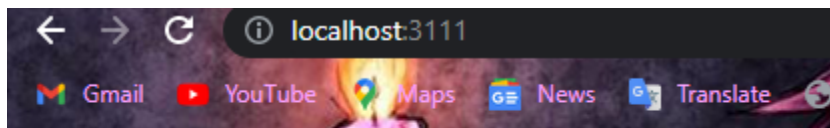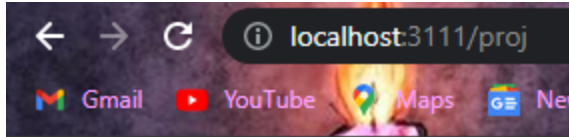
Output Command:

```
PS C:\Users\Hyder\Desktop\Web Lab 10\Task2> node app.js
```

Output:

localhost:3111

Gmail   YouTube   Maps   News   Translate

404 Web Page Not Found
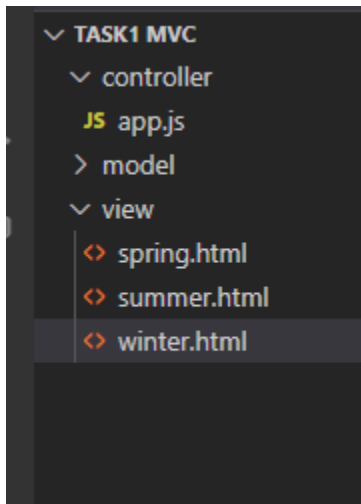
Name: Muhammad Hyder Ali

Roll No: 19F-0904

Project: Automobile Spare Parts Selling

Either way we put myproject or my-project or project it will redirect to the same localhost:3111/proj and if the three aren't entered than 404.html page will load

Task3:

TASK1 MVC:

Code:

App.js:

```js
const express = require('express')
const app = express()

app.get('/winter', function (req, res) {
  res.sendFile('C:/Users/Hyder/Desktop/Web Lab 10/Task3/Task1
MVC/view/winter.html')
});

app.get('/spring', function (req, res) {
  res.sendFile('C:/Users/Hyder/Desktop/Web Lab 10/Task3/Task1
MVC/view/spring.html')
});
```

```
app.get('/summer', function (req, res) {
  res.sendFile('C:/Users/Hyder/Desktop/Web Lab 10/Task3/Task1
MVC/view/summer.html')
}).listen(3111);
```

Winter.html:

```
<html>
<head>
<title>Winter</title>
</head>
<body>

<h1>Winter</h1>
<p>SNOW SNOW SNOW I love winter because of SNOW but the fever and
    human body unable to handle it I kinda feel sick...
</p>

</body>
</html>
```

Summer.html:

```
<html>
<head>
<title>Summer</title>
</head>
<body>

<h1>Summer</h1>
<p>I hate as well as like summer because of its hot weather I hate it
    and due to its different varities of fruits I love it
</p>

</body>
</html>
```

Spring.html:

```
<html>
<head>
<title>Page Title</title>
</head>
<body>
```
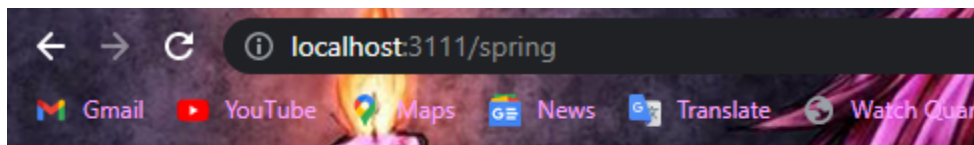
```
<h1>Spring</h1>
<p>Spring always brings cool air and some leaves falling down</p>

</body>
</html>
```

Output Command:

```
PS C:\Users\Hyder\Desktop\Web Lab 10\Task3\Task1 MVC> cd 'c:\Users\Hyder\Desktop\Web Lab 10\Task3\Task1 MVC\controller'
PS C:\Users\Hyder\Desktop\Web Lab 10\Task3\Task1 MVC\controller> node app.js
```
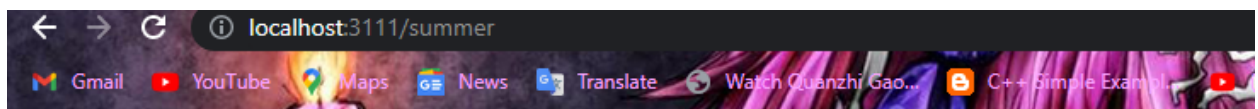
Output:

Spring

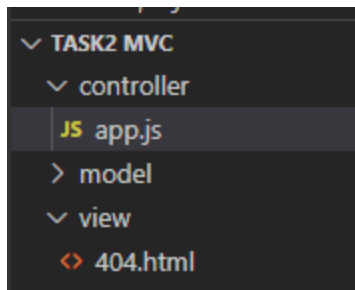Spring always brings cool air and some leaves falling down

Winter

SNOW SNOW SNOW I love winter because of SNOW but the fever and human body unable to handle it I kinda feel sick...

Summer

I hate as well as like summer because of its hot weather I hate it and due to its different varities of fruits I love it

TASK2 MVC:

Code:

App.js:

```js
const express = require('express')
const app = express()

app.get('/proj', function (req, res) {
  res.sendFile('C:/Users/Hyder/Desktop/Web Lab 10/Task3/Task2
MVC/view/proj.html');
});

app.get('/project', function (req, res) {
    res.redirect('C:/Users/Hyder/Desktop/Web Lab 10/Task3/Task2
MVC/view/proj.html');
});

app.get('/my-project', function (req, res) {
res.redirect('C:/Users/Hyder/Desktop/Web Lab 10/Task3/Task2 MVC/view/proj.html');
});

app.get('/myproject', function (req, res) {
    res.redirect('C:/Users/Hyder/Desktop/Web Lab 10/Task3/Task2
MVC/view/proj.html');
});
app.use(function(req,res){

    res.sendfile('C:/Users/Hyder/Desktop/Web Lab 10/Task3/Task2
MVC/view/404.html');
})
app.listen(3111)
```

404.html:

```html
<html>
<head>
```

```
<title>Error Page</title>
</head>
<body>
    <h1>404 Web Page Not Found</h1>
</body>
</html>
```

Proj.html:
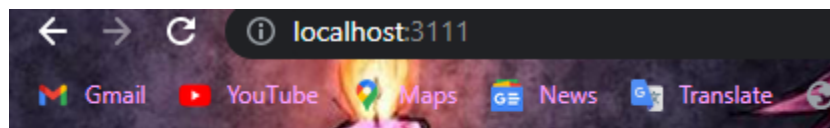
```
<html>
<head>
<title>Project Name with My Information</title>
</head>
<body>

<p>Name: Muhammad Hyder Ali</p>
<p>Roll No: 19F-0904</p>
<p>Project: Automobile Spare Parts Selling</p>
</body>
</html>
```
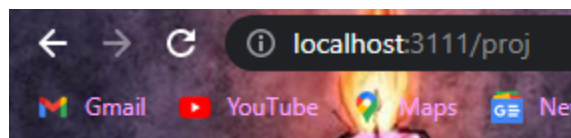
Output Command:

```
PS C:\Users\Hyder\Desktop\Web Lab 10\Task3\Task2 MVC> cd 'c:\Users\Hyder\Desktop\Web Lab 10\Task3\Task2 MVC\controller'
PS C:\Users\Hyder\Desktop\Web Lab 10\Task3\Task2 MVC\controller> node app.js
```

Output:

404 Web Page Not Found

Name: Muhammad Hyder Ali

Roll No: 19F-0904

Project: Automobile Spare Parts Selling

Either way we put myproject or my-project or project it will redirect to the same localhost:3111/proj and if the three aren't entered than 404.html page will load

--END--