

### Lesson 10 Demo 02

# **Demonstrating Error Handling Commands**

**Objective:** To demonstrate the use of error handling commands for routing, local variables, rendering views, and server setup in Express.js

Tools Required: Ubuntu and Visual Studio

Prerequisites: Knowledge of JavaScript and Node.js

#### Steps to be followed:

- 1. Install Postman in the system for checks
- 2. Use app.routes in Express.js
- 3. Use app.locals in Express.js
- 4. Use app.render() in Express.js
- 5. Use app.listen() in Express.js

## Step 1: Install Postman in the system for checks

1.1 Check the response method using the Postman application and run the following command in the system terminal to install Postman:

#### sudo snap install postman



# Step 2: Use app.routes() in Express.js

2.1 Open the Expressjs folder in VS Code and write the following code in the index.js file:

```
var express = require('express');
var app = express();
var PORT = 3000;
```



```
app.route('/routerexample')
.get((req, res, next) => {
  console.log("GET request called");
  res.send('GET request called');
})
.post((req, res, next) => {
  console.log("POST request called");
  res.send('POST request called');
})

app.listen(PORT, function(err){
  if (err) console.log(err);
  console.log("Server listening on PORT", PORT);
});
```

```
Js index.js >
Js index.js >...

1     var express = require('express');
2     var app = express();
3     var PORT = 3000;
4     app.route('/routerexample')
5     .get((req, res, next) => {
6         console.log("GET request called");
7         res.send('GET request called');
8     })
9     .post((req, res, next) => {
10         console.log("POST request called");
11     res.send('POST request called');
12     })
13     app.listen(PORT, function(err){
14         if (err) console.log(err);
15         console.log("Server listening on PORT", PORT);
16     });
```

2.2 Run the **node index.js** command in the terminal

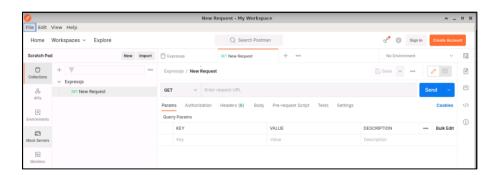
```
PROBLEMS OUTPUT DEBUG CONSOLE

labuser@ubuntu2204:~/Expressjs$ node index.js

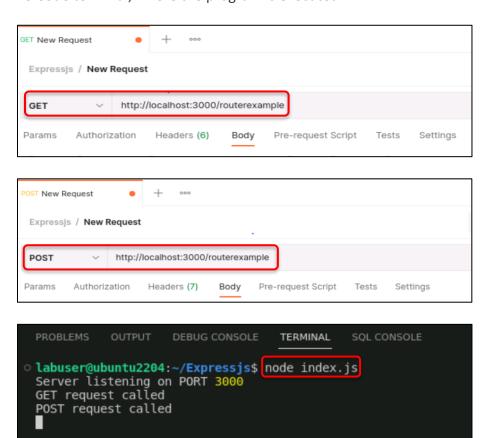
Server listening on PORT 3000
```



2.3 Open Postman, create an account, or skip it. In the Postman workspace, run a collection of Express.js requests to check function responses, and subsequently add a new request to the collection



2.4 Make the GET and POST requests to http://localhost:3000/, and check the output in the VS Code terminal, where the program is executed





### Step 3: Use App.locals() in Express.js

```
3.1 Add the following code in the index.js file:
    var express = require('express');
    var app = express();

// Setting single locals variable
    app.locals.name = 'app.locals demo'

console.log(app.locals.name);
```

```
Js index.js x

Js index.js > ...

1    var express = require('express');
2    var app = express();
3
4    // Setting single locals variable
5    app.locals.name = 'app.locals demo'
6
7    console.log(app.locals.name);
8
```

3.2 Run the **node index.js** command in the terminal

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE

● labuser@ubuntu2204:~/Expressjs$ node index.js
app.locals demo

○ labuser@ubuntu2204:~/Expressjs$
```

# Step 4: Use app.render() in Express.js

```
4.1 Add the following code to the index.js file:
    var express = require('express');
    var app = express();
    var PORT = 3000;

    // View engine setup
    app.set('view engine', 'ejs');

app.render('index', function (err, html) {
    if (err) console.log(err);
```



```
console.log(html);
});

app.listen(PORT, function(err){
  if (err) console.log("Error in server setup");
  console.log("Server listening on Port", PORT);
});
```

```
Js index.js x

Js index.js > ② app.render('index') callback

1     var express = _require('express');
2     var app = express();
3     var PORT = 3000;
4

5     // View engine setup
6     app.set('view engine', 'ejs');
7

8     app.render('index', function (err, html) {
9         if (err) console.log(err);
10         console.log(html);
11     });
12
13     app.listen(PORT, function(err){
14         if (err) console.log("Error in server setup");
15         console.log("Server listening on Port", PORT);
16     });
17
```

4.2 Run the following command in the terminal to add **ejs** to the project: **npm install ejs** 

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE

• labuser@ubuntu2204:~/Expressjs$ npm install ejs
added 16 packages, and audited 74 packages in 3s

9 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
• labuser@ubuntu2204:~/Expressjs$
```

4.3 Create a folder named views, and in that folder, create an index.ejs file and add the following code to that file:



#### </html>

4.4 Run the **node index.js** command in the terminal

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE

• labuser@ubuntu2204:~/Expressjs$ node index.js

<!DOCTYPE html>
<html>
<head>
<title>Error Handling command</title>
</head>
<body>
<hl>app.render() is working</hl>
</hody>
</html>

Server listening on Port 3000
```

### Step 5: Use app.listen() in Express.js

5.1 Open the Express.js folder created in VS code and write the below code in the **index.js** file:

```
var express = require('express');
var app = express();
var PORT = 3000;
app.listen(PORT, function(err){
  if (err) console.log("Error in server setup")
    console.log("Server listening on Port", PORT);
})
```



```
Js index.js X

Js index.js \times ...

1     var express = require('express');
2     var app = express();
3     var PORT = 3000;
4
5     app.listen(PORT, function(err){
6         if (err) console.log("Error in server setup")
7         console.log("Server listening on Port", PORT);
8     })
9
```

5.2 Run the **node index.js** command in the terminal

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL SQL CONSOLE

• labuser@ubuntu2204:~/Expressjs$ node index.js

Server listening on Port 3000
```

By following these steps, you have successfully implemented and understood errorhandling commands for routing, local variables, view rendering, and server setup.