Homework - Express Generator

Express Generator + Router

Developer Note:

Create a new project structure and run install express-generator

Exercise #1 – Express Generator

- 1. Create a folder named Lab
- 2. Open a command prompt create a directory for exercise-1
- 3. Open Visual Studio Code and open the folder exercise-1
- 4. Run the following to install the express application generator

```
npm install express-generator -g
```

5. The following creates an Express app named *myapp*. The app will be created in a folder named *myapp* in the current working directory and the view engine will be set to <u>Pug</u>

```
express --view=pug myapp
```

The result will be the following file skeleton application structure being created in myapp.

```
create : myapp\
create : myapp\public\
create : myapp\public\javascripts\
create : myapp\public\images\
create : myapp\public\stylesheets\
create : myapp\public\stylesheets\style.css
create : myapp\routes\
create : myapp\routes\index.js
create : myapp\routes\users.js
create : myapp\views\
create : myapp\views\error.pug
create : myapp\views\index.pug
create : myapp\views\layout.pug
create : myapp\app.js
create : myapp\package.json
create : myapp\bin\
create : myapp\bin\www
```

6. Change directory to the *myapp* and then install the application dependencies

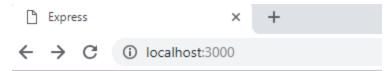
7. Navigate to the *package.json* file and review the following scripts section. A CLI *start script command* has been generated so that node will execute a file from the bin/www folder. https://docs.npmis.com/cli/run-script

```
"scripts": {
    "start": "node ./bin/www"
},
```

8. Run the npm start CLI command to start the web server on port 3000

```
npm start
```

9. Navigate the browser to the following URL and view the response from node.



Express

Welcome to Express

Exercise #2 - Routes + Body Parser

1. In the same **exercise-1** directory, stop the running node application and install the following body-parser middleware.

https://www.npmjs.com/package/body-parser

```
npm install body-parser --save
```

2. In the directory structure navigate to the router folder.



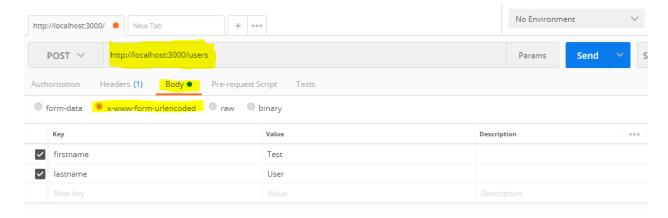
3. In the *user.js file* add the following code to include the *body-parser* middleware and set up the router to use the body-parser. Modify the code to reflect the following:

```
var express = require('express');
var bodyParser = require('body-parser')

var router = express.Router();

router.use(bodyParser.urlencoded({ extended: true }));
```

- 4. Remember to stop the running application and then rebuild the application with **node app.js** and then run the application with **npm start**
- 5. Using POST API Testing Tool build some post parameters and the following POST URL



6. Write a route in the *user.js* that handles the POST submission and uses *body-parser* middleware to pull the request parameters from the form and display them in the console log.

```
First name: Test
Last name: User
POST /users 200 3.995 ms - 13
```

The response sent to client ie. POSTMAN from the user route should be the following 'POST received!' message:

