**COMP229 – Web Application Development**

# Week 2 - Lab

**Due**: Week 2 Friday@ midnight

## Value 0.5% (Bonus)

Week 2 - Lab **Maximum Mark:** **100**

**Overview**: Using your knowledge of **JavaScript** and **NodeJS** create a new **Nodejs** application that listens to HTTP requests on port 3000 and return 3 different HTTP responses as follows:

|  |  |  |
| --- | --- | --- |
| Request URL | HTTP Response | Content-Type |
| <http://localhost:3000/> | “Hello from NodeJS Application” | text/plain |
| <http://localhost:3000/html> | “<h1> Hello from NodeJS Application as html</h1> | text/html |
| <http://localhost:3000/json> | {  “message”: “Hello from NodeJS Application as json”  } | application/json |

**Instructions:**

1. Create a folder named “COMP229-F2022-WEEK2-LAB”
2. Run **npm init** to create the structure for a new NodeJS Application from the command-line (windows command-prompt or power-shell)
3. Initiate a git repository on the same folder from the command-line interface
4. Change your **“main”** attribute on ***package.json*** file from **index.js** to **server.js**
5. Install **connect** third-party npm module from the command line
6. Implement the node web server as defined on the table above, using connect module, on your **server.js file**
7. Run your **NodeJS** application from the command-line using “**node server.js**”.
8. Open your browser and evaluate all 3 request URLs
9. Add all files to your git repository
10. Commit your changes to git repository
11. Create a new online repository on Github.com named **COMP229-F2022-WEEK2-LAB-[YourStudentID]** (replace YourStudentID with your Centennial ID).
12. Push your local repository to the newly create remote repository on Github.com

**SUBMITTING YOUR WORK**

Your submission should include:

1. A zip archive of your website’s **Project files**.
   * Ensure to Name your project files COMP229-F2022-WEEK2-LAB-[YourStudentID].zip e.g., COMP229-F2022-WEEK2-LAB-300818557.zip
   * Please **do not** create a RAR archive of your project files.
2. A link to your GitHub repository.
   * Ensure to Name your GitHub repo: COMP229-F2020-Midterm-[YourStudentID] e.g., COMP229-F2022-WEEK2-LAB-300818557)

|  |  |  |
| --- | --- | --- |
| **Feature** | **Description** | **Marks** |
| GUI / Interface Design | Display elements meet requirements. Appropriate spacing, graphics, colour, and typography used. | 5 |
| Functionality | Application deliverables are met. No errors, including submission of user inputs. | 75 |
| Internal Documentation | File header present, including site & student name & description. Functions and classes include headers describing functionality & scope. Inline comments and descriptive variable names included. | 5 |
| Version Control | GitHub commit history demonstrating regular updates. | 15 |
| **Total** |  | **100** |