COMP2068 – JavaScript Frameworks

Assignment 1 - Express Portfolio Site
Value 20% - Maximum Mark: 40

Overview: Create your Personal Portfolio Website using **ExpressJS** and implementing the **Handlebars templating engine**. Your site must be hosted live on a cloud service such as **Heroku (recommended), Microsoft Azure, AWS,** or **Digital Ocean**.

All work must be your own with the following conditions:

External code (e.g., from the internet or other sources) can be used for student submissions within the following parameters:
1. The code source (i.e., where you got the code and who wrote it) must be cited in your internal documentation.
2. It encompasses a maximum of 10% of your code (any more will be considered cheating).
3. You must understand any code you use and include documentation (comments) around the code that explains its function.
4. You must get written approval from me via email.

All submissions are subject to a code review where you may be asked to explain any of the code included in your project.

Sample Student Portfolios:
- http://www.jessicagilfillan.ca/
- https://nvimai.com/

Instructions:
This Express site must include the pages from your Personal Portfolio 4 pages – your **Home page**, an **About Me** page, a **Projects page**, and a **Contact Me** page.

1. Your Portfolio site will use **ExpressJS** and **NodeJS** and your web pages have been split to use different **View templates** and partials by implementing the **Handlebars templating engine** and Express Routes **(4 Marks: GUI, 4 Marks: Functionality):**
   a. You need minimum 1 view template (4 Marks: Functionality, 4 Marks: GUI).
   b. An Express Route must exist for each page of your site. **Note**: You will need to use the **app.get(path, callback(req, res, next))** method structure with a **res.render(view, locals)** method call to render each view (4 Marks: Functionality).

2. Your site will use the new structure created by the **Express Generator**. Your site files will be migrated to work within the **public**, **controllers** (or **routes)** and **views** folders **(20 Marks: Site Structure):**

   a. Generate your site structure with the Express Generator. **Note**: You must use the **--views=hbs** option to ensure that you implement the **Handlebars templating engine** for Express (3 Marks: Site Structure).

   b. Your **JavaScript**, **CSS and Multimedia Asset Files** should be moved to separate folders within the **public** folder. Using the Twitter Bootstrap CSS framework or a 3rd party theme (must reference the source) is strongly recommended. **Note:** the **public** folder is part of the path and does not have to be referenced (3 Marks: Site Structure).

   c. You will define routes for all of your pages in the **index.js** file in your **controllers** folder (1 Mark: Site Structure).

   d. Your **views** folder will contain your **HBS page templates**. Use a layout template to add a shared header and footer to your site. Footer should include links to your GitHub and LinkedIn pages. (6 Marks: Site Structure).

   e. All Your Code (HTML, CSS, JavaScript, jQuery, etc.) is error free (2 Marks: Site Structure).

   f. The latest version of your site will be hosted live and error free on a Cloud Hosting Service (5 Marks: Site Structure).

3. Share your files on **GitHub** to demonstrate Version Control Best Practices and push your site to a cloud host **(4 Marks: Version Control, 4 Marks: Cloud Hosting).**

   a. Your repository must include **your code** and be well structured (2 Marks: Version Control).

   b. Your repository must be private, and you must add me – @eduardojaime – as a collaborator. Include **commits** that demonstrate the project being updated at different stages of development – each time a major change is implemented (2 Marks: Version Control).

   c. You must deploy your site to your Cloud Server using **git** (4 Marks: Cloud Hosting).

Optional Site Features (i.e., Potential Bonus Marks).
   A. Use the **Angular or React** front-end framework to improve interactivity and to implement the MVC design pattern (4 Bonus Marks).
   B. Create a working **contact form** on the Contact Me page using **node.js** and appropriate node packages (2 Bonus Marks).
   C. Create an external document (MS Word or PDF) that includes page wireframes, an explanation of the technologies used, and a Style Guide that details visual elements such as fonts and colours (2 Bonus Marks).

D. Attach a full domain name to your site (e.g., http://www.eduardojaime.ca). You get 1 free domain name for 1 year with your GitHub Student Pack account. (1 Bonus Mark).

SUBMITTING YOUR WORK
Your submission should include:
1. A link to a private GitHub repository – invite me – @eduardojaime – as a collaborator.
2. A link to your live portfolio site hosted with a Cloud provider (likely Heroku)

Feature	Description	Marks
GUI / Interface Design	Display elements meet requirements. Appropriate spacing, graphics, colour, and typography used. Portfolio conveys a professional appearance.	4
Functionality	Site deliverables are met, and site functions are met. No errors, including submission of user inputs.	4
Site Structure	Well organized site files. Separate HTML and CSS. Appropriate links to external documents and code. Code is error free.	20
Version Control	GitHub commit history demonstrating regular updates. 2 marks for 2 commits by Feb 18	4
Cloud Deployment	Deploy site to Cloud Service.	4
Total		**36**

This assignment is weighted **25%** of your total mark for this course.

Late submissions:
- 20% deducted for each day late.