

COMP 308 – Emerging Technologies – Winter 2016 – Section 3

Assignment 1 – Express Portfolio Site

Due: Sunday, February 14, 2016 @ 11:59 PM

Weight: 10%

Maximum Mark: 40

Overview: Create your Personal Portfolio Website using Node.js, Express, and implementing the EJS templating engine.

Sample Student Portfolios:

- <http://www.angad-dubey.com/>
- <http://www.jessicagilfillan.ca/>

Instructions:

This Express site must include 5 pages as your Personal Portfolio – your **Home** page, an **About Me** page, a **Projects** page, a **Services** page, and a **Contact Me** page.

1. Your Portfolio site will use **Express** and **Node.js** and your web pages have been split to use different **View templates** by implementing the **EJS templating engine** and Express routes (5 Marks: GUI, 10 Marks: Functionality):
 - a. Your site should include at least 2 View templates – one for your **Home Page** and one for your **Contact Me** page. **Note:** You may include additional templates as needed to accommodate other site pages (5 Marks: Functionality, 5 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, data)** method call to render each view (5 Marks: Functionality).
2. Your site will use the horizontal file structure. Your site files will be working within the **public**, **routes** and **views** folders (15 Marks: Site Structure):
 - a. Create a horizontal site structure (5 Marks: Site Structure).
 - b. You will define routes for all of the pages of your site in the **index.js** file in your **routes** folder. Your **views** folder will contain your **EJS page templates**. (5 Marks: Site Structure).
 - c. Your **JavaScript**, **CSS** and **Multimedia Asset Files** should be moved to separate folders within the **public** folder. Using the Twitter Bootstrap CSS framework is strongly recommended. **Note:** the **public** folder is part of the path and does not have to be referenced (5 Marks: Site Structure).

3. Include **Internal Documentation** for your site (**5 Marks: Internal Documentation**):
 - a. Ensure you include a **comment header** for your **HTML, CSS and JavaScript files** that indicate: the **File name, Author's name, web site name, and file description** (2 Marks: Internal Documentation).
 - b. Ensure you include a **section headers** for all of your **HTML structure, CSS style sections, and any JavaScript functions** (1 Marks: Internal Documentation)
 - c. Ensure all your code uses **contextual variable names** that help make the files human-readable (1 Marks: Internal Documentation).
 - d. Ensure you include **inline comments** that describe your GUI Design and Functionality.
Note: Please avoid “over-commenting” (1 Marks: Internal Documentation)
4. Attractive GUI/UI, using Bootstrap, and adding additional elements to enhance functionality and usability (**5 Marks: Creativity**).
5. Create a working **contact form** on the Contact Me page using **node.js** and appropriate node packages (**5 Marks: Bonus**).

Feature	Description	Marks
GUI / Interface Design	Display elements meet requirements. Appropriate spacing, graphics, color, and typography used.	5
Functionality	Site deliverables are met and site functions are met. No errors, including submission of user inputs.	10
Site Structure	Well organized site files. Separate EJS, HTML, and CSS. Code is error free.	15
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
Creativity	The program's GUI/UI is attractive. Using Twitter Bootstrap. Adding additional elements outside of the scope of the site requirements that enhance functionality and usability.	5
Total		40

SUBMITTING YOUR WORK

This assignment must be completed individually.

You will have to demonstrate your solution in a scheduled lab session, and submit a zip archive of your website using the assignment link on Dropbox.

This assignment is weighted 10% of your total mark for this course.

Late submissions: 20% will be deducted for each day late.

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.