WEB322 Assignment 2

Submission Deadline:

Friday, May 26th, 2017 @ 11:59 PM

Assessment Weight:

5% of your final course Grade

Objective:

Create and publish a web app that uses multiple routes which serve static files (HTML & CSS). This will serve as the "scaffolding" for future assignments.

Specification:

This assignment will involve creating multiple routes that serve specific HTML pages, styled using CSS.

Step 1: Development Environment

- Create a folder called **web322-app**. This will serve as our main application that we will be updating and modifying throughout this course.
- Inside this folder, initialize a local Git repository (using git init from the integrated terminal)
- Add the file server.js
- Create a **package.json** file using **npm init**. Ensure that your "entry point" is **server.js** (this should be the default), and "author" is your full name, ie: "John Smith"
- Obtain the Express.js module using npm install express --save
- Commit your changes your local git repository (using the source control icon displaying a (99+) icon) with the message "initial commit"

Step 2: Adding Files / Folders

- Add the folder views this will be the location of the static pages (.html) and
 CSS (.css) files that we will be using in our application
- Inside the views folder, add the files home.html and about.html
- Inside the views folder add the folder css
- Inside the views/css folder add the file site.css (this will serve as the main .css file for our app)
- Your folder structure should now look like the image to the right:

■ WEB322-APP
 ▶ node_modules
 ■ views
 ■ css
 site.css
 about.html
 home.html
 package.json
 server.js

Step 3: Quick Modification of Files

- Before starting on your server.js file, add some content to home.html, about.html and site.css, ie:
- home.html:

about.html

style.css

```
h3{
  color: red;
}
```

Step 4: Update server.js & testing app

- Now that all the files are in place, update your **server.js** file according to the following specifications (**HINT**: Refer to the sample code from **week 2** for reference):
 - o The server must make use of the "express" module
 - The server must listen on process.env.port | 8080
 - The server must output: "Express http server listening on port" to the console, where port is the port the server is currently listening on (ie: 8080)
 - O The route "/" must return the home.html file
 - o The route "/about" must return the about.html file from the views folder
 - NOTE: for your server to correctly return the "css/site.css" file, the "static" middleware must be used: in your server.js file, add the line: app.use(express.static('views')); we will discuss this in greater detail in Week 4
 - o From the integrated terminal, enter the command **node server.js** and verify the following:
 - The integrated terminal shows "Express http server listening on 8080"
 - The url: http://localhost:8080 shows the text "Home" in red
 - The url: http://localhost:8080/about shows the text "About" in red

Step 5: Updating Views

• Now that we have verified that the server is functioning properly, we need to update our views to show something a little more like a real website:

o home.html

- Update your home.html file to use the HTML & CSS from the 2-column layout from WEB222 (located here: https://scs.senecac.on.ca/~patrick.crawford/shared/winter-2017/web222/lecture9/pt2/layout-2-column-grid.html).
- HINT: right-click on the page and choose "View Page Source"
- NOTE: Any CSS present on the HTML page (between <style> tags) must be placed into your own views/css/style.css file.
- Change the <title> element to read "Home"
- Change the links in the <nav> element from "Seneca College", "ICT" and "Google" to "Home" (url: "/") and "About" (url: "/about")
- Change the top heading to read "myApp" instead of "HTML5 Structural Elements"
- Update the left column <h3> element to read "Coming Soon" and add a short message to the user
- Update the right column <h2> element to read "Welcome"
- Update the <footer> element to read © 2017 Student Name (where "Student Name" is your name)
- When completed, the page should look like:

myApp

HOME ABOUT

Coming Soon

Stay tuned for new JS examples and

Welcome

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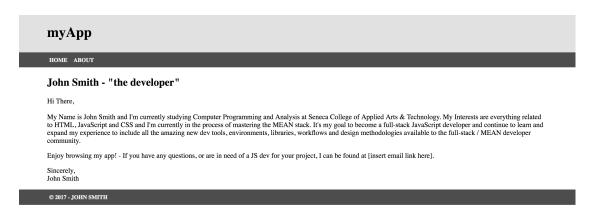
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© 2017 - JOHN SMITH

o about.html

- Update your about.html file to use the HTML & CSS from the 1-column layout from WEB222 (located here: https://scs.senecac.on.ca/~patrick.crawford/shared/winter-2017/web222/lecture9/pt2/layout-1-column-grid.html).
- HINT: right-click on the page and choose "View Page Source"
- NOTE: Any CSS present on the HTML page (between <style> tags) must be placed into your own views/css/style.css file (this should be the same as "home.html").
- Change the <title> element to read "About"
- Change the links in the <nav> element from "Seneca College", "ICT" and "Google" to "Home" (url: "/") and "About" (url: "/about")
- Change the top heading to read "myApp" instead of "HTML5 Structural Elements"
- Change the <h2> element in the main column (<article> element) to read "FirstName LastName
 the developer" where FirstName and LastName are your first Name & Last Name
- Update the <footer> element to read © 2017 Student Name (where "Student Name" is your name)
- Write a short blurb about yourself, ie what year you're in, what you would like to do when you have graduated, etc.
- When completed, the page should look like:



style.css

Feel free to update style.css to provide additional style to the pages in your app. Black, White and Gray is boring, so why not add some cool colors and fonts (maybe something from Google Fonts)?

Step 6: Pusing to Heroku

- Once you are satisfied with your application, deploy it to Heroku:
 - o Ensure that you have checked in your latest code using git (from within Visual Studio Code)
 - o Open the integrated terminal in Visual Studio Code
 - o Log in to your Heroku account using the command heroku login
 - o Create a new app on Heroku using the command heroku create
 - Push your code to Heroku using the command git push heroku master
- **IMPORTANT NOTE:** Since we are using an "**unverified**" **free** account on Heroku, we are limited to only **5 apps**, so if you have been experimenting on Heroku and have created 5 apps already, you must delete one (or verify your account with a credit card). Once you have received a grade for Assignment 1, it is safe to delete this app (login to the Heroku website, click on your app and then click the **Delete app...** button under "**Settings**").

Assignment Submission:

P	Add the following declaration at the top of your server.js file:				
/	*********	**********************			
*	* WEB322 – Assignment 02				
k	I declare that this assignment is my own work in accordance with Seneca Academic Policy. No part				
k	* of this assignment has been copied manually or electronically from any other source				
* (including 3rd party web sites) or distributed to other students.					
×	k	·			
*	* Name:	Student ID:	Date:		
*	,				
* Online (Heroku) Link:					
*	k				
*	***************************************				
(Compress (.zip) your web322-app folder and submit the .zip file to My.Seneca under				

Important Note:

Assignments -> Assignment 2

- NO LATE SUBMISSIONS for assignments. Late assignment submissions will not be accepted and will receive a grade of zero (0).
- After the end (11:59PM) of the due date, the assignment submission link on My.Seneca will no longer be available.