CSCI 406 – Advanced Web Development

Lab 1 – My First MEAN Project

For this lab you must create your first MEAN project from the ground up according to a simple specification of the user experience and technical requirements.

DUE DATE: *This lab is due to the instructor by Monday, September 14th at 11:59pm.*

Instructions:

1. Using your Amazon Lightsail MEAN instance, develop a new application (suggest you call it myapp or lab1).

   Important Suggestion: Rather than coding your entire application by hand, you may want to take a look at a package called "Express Generator" which can be used to easily generate the skeleton of an Express application which you then simply extend. Express Generator may be found here: https://expressjs.com/en/starter/generator.html

2. Your web application is a standard Express application that adheres to the following specification:

Specification:

i. **Port 3000:** Your application must load from a browser via port 3000, which is the typical "development" port for an Express application.

ii. **Index page:** The index (aka default) page will be driven by a view that renders a page as follows:

   a. **Title –** The HTML **title** of the page shall be your name.

   b. **H1 –** The H1 tag of the page shall also be your name.

   c. **First paragraph –** The first paragraph of the page should be an introduction.

   d. **Second paragraph –** The second paragraph of the page should include a hyperlink to the biography (aka "bio") page and view.

iii. **Bio page:** Your app shall also include a biography page that includes some information about yourself and is constructed as follows:

   a. **Title –** The HTML **title** of the page shall be the word "Biography"

   b. **H1 –** The H1 tag of the page shall also be the word "Biography"

c. **First paragraph –** The first paragraph of the page should be text that indicates this is your biography page.

d. **Second paragraph –** The second paragraph shall include whatever biographical information about yourself you wish to include, nicely formatted.

iv. **App Runs when Disconnected:** Your application must be setup to run even with your MEAN instance is not connected.

v. **Sample:** Below is the instructor's example:

http://13.58.205.86:3000/

3. Get your application working by developing and updating the needed views, routes, and updating app.js as required.

4. Once you have the application working and it is available via port 3000 even when disconnected from your MEAN instance please send the full URL to the instructor via email with subject of "Lab1":

mailto:thomas.rogers@millersville.edu?subject=Lab1