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Professor Reep

SWE 432: Web Application Development

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#### Iteration 4: Write-up

### 1. Server-Side Setup and Configuration (40 points)

#### a. Node.js Setup (20 points):

- i. Successfully installed Node.js, initialized their project, and installed necessary packages.

As demonstrated on video, Node.js is installed with all its required accessories such as npm and npx. In addition, necessary packages such as express were installed to the project directory as well.

#### b. Server Configuration (20 points):

- i. Must set up an Express server in a file (e.g., 'app.js' or 'server.js') and configure it to use EJS as the templating engine.

Shown in the app.js code, an express server is created, and routes are configured to use the EJS templating engine. Specifically, the calls to `app.set('views', ...)`; and `app.set('view engine', 'ejs')`; complete these tasks.

- ii. They have organized their project directory properly, separating routes, views, and static files.

Different EJS views were separated into their own files located inside the views folder. Static content, such as images, stylesheets, and JavaScript were included in their own folders inside the public/ folder.

### 2. EJS Implementation (40 points)

#### a. EJS Syntax (20 points):

- i. Example: The student demonstrates a good understanding of EJS syntax

The use of the EJS syntax: `<% %>` and the for loop `<% for (let station in topStations %>` in the home.ejs file demonstrate a knowledge of the EJS syntax and its use in framing dynamic content.

#### b. Data Passing (10 points):

- i. Passing data from their server to their EJS templates successfully.

Data was passed successfully to create the different divisions for the radio stations displayed on each page. In the future, after we implement databases, these JSON objects can be manipulated and converted from content stored in a database. Specifically, img locations and station names/djs were passed.

#### c. EJS Views (10 points):

- i. Created dynamic EJS views for their radio station application, utilized EJS layouts to create all pages.

All the separate original pages from other iterations were successfully implemented as dynamic EJS views in some capacity. They each have their own routes and are displayed at their sub folders named relatively. For example, home is under the root and likes.ejs is under <http://localhost:8080/likes>

3. Functionality (20 points) - All features of the application are working as expected. Links lead to the correct pages, buttons perform their intended actions, and data is displayed correctly.

The website functions as intended serving dynamic station content and returning a dynamic station based on what was clicked. There are still a few features to be implemented such as audio data transfer among others. Over all, the site is progressing well.