WEB322 Assignment 2

Assessment Weight:

9% of your final course Grade

Objective:

Create and publish an eCommerce web app that uses multiple routes, serves static files (HTML & CSS) and a "store service" module for accessing data. This will serve as the "scaffolding" for ALL future assignments, so you’ll want to get perfect!

Specification:

This assignment will involve creating multiple routes that serve a specific HTML page with JSON data.

Part 1: Dev Environment, Files & Folder Structure

**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, i.e. "John Smith"
* Add the file **store-service.js**
* Add the file **.gitignore** containing the single line**: /node\_modules**(This will prevent git from tracking changes in the node\_modules folder)
* Obtain the **Express.js** module using **npm install express**
* **Commit** your changes to your **local git repository** (using the source control icon showing the number of changes, i.e. 5) with the message "initial commit"

**Step 2:** Adding Files / Folders

* Add the folder **views** - this will be the location of the .html files that we will be using in our application
* Add the folder **public** - this will be the location of the .css, client side .js & image files that we use in our application
* Add the folder **data** - this will be a temporary source of static data (JSON) for our application
* Inside the **views** folder, add the file **about.html**
* Inside the **public** folder, add the folder **css**
* Inside the **public/css** folder - add the file **main.css** (this will serve as the main .css file for our app)
* Once you commit your latest changes, your folder structure should look  
  like the image to the right:

**Step 3:** Adding Static Content (about.html)

* Before starting on your **server.js** file, add some html **about.html** using the template included at the bottom of this page- this leverages the Bootstrap 4 & jQuery libraries (discussed in detail during Week 11)
* At this point, we must make some changes to the page (what's currently there is only a starting point)
  + Update "Link 1" to read "Shop" and change the link's "href" property from "#" to "/shop"
  + Update "Link 2" to read "About" and change the link's "href" property from "#" to "/about"
  + Update the page "title" to read "About"
  + Ensure the heading (h2) for the left column reads "About"
    - **NOTE**: Please feel free to update the "Lorem Ipsum" text to something more personal, i.e. what you're currently studying, interests, goals, etc.
  + Ensure the heading (h2) for the right column reads "Coming Soon"
    - **NOTE:** You may also update the sample text for something more fun, i.e. "Stay tuned for future updates…", etc.
  + Modify the "navbar-brand" span element to read "WEB322 - Student Name" where "Student Name" is your name, i.e. "John Smith", etc.
  + Update "Link 3" to read "Items" and change its "href" property from "#" to "/items"
  + Update "Link 4" to read "Categories" and change its "href" property from "#" to "/categories"

**Step 4:** Update server.js & testing the 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):
  + 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 (i.e. 8080)
  + The route "**/**" must **redirect** the user to the "**/about**" route – this can be accomplished using **res.redirect()** (see [week 4](https://web322.ca/notes/week04) "Response object")
  + The route "**/about**" must return the **about.html** file from the **views** folder
  + **NOTE**:for your server to correctly return the "/css/main.css" file, the "**static**" middleware must be used: in your **server.js** file, add the line: **app.use(express.static('public'));** before your "routes" (see [week 4](https://web322.ca/notes/week04) "Serving static files")
  + 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**](http://localhost:8080)should redirect to the "About" page:
  + **NOTE**: At this point, if you wish to make any updates to the look and feel of the site, please feel free to update your **main.css** to personalize it.
  + You can also **use a different Bootstrap theme** by browsing to <https://bootswatch.com/>

Part 2: Store Service, Shop, Items & Categories

**Step 1:** Obtaining the Data

* Create 2 new files inside the "data" folder: **items.json** and **categories.json**
* Using the Categories Template at the end of this document, copy the contents of the JSON to your own categories.json file (within the "data" folder).
* Next, using the Items Template at the end of this document, copy the entire contents of the JSON file to your own items.json file (within the "data" folder) - this should be an array of 30 "item" objects

**Step 2:** Updating the custom store-service.js module

* The file that we added at the beginning of this assignment ("store-service.js") is going to be a module that we will use within our server.js file.
* Your first step is to "**require**" this module at the top of your **server.js** file so that we can use it to interact with the data from server.js

**Step 3:** Adding additional Routes:

For now, we will be making use of this store data by sending it back to the client using specific routes. One route (i.e. the "/shop" route) will serve as the public-facing part of our application (along with "/about"), whereas other routes will be used in the future for dealing with managing the store (i.e. creating / editing items, adding categories, etc.) in a private area (later protected by a login page & user authentication).

Inside your server.js add routes to respond to the following "get" requests for the application. Once you have written the routes, test that they work properly by returning a confirmation string using **res.send()** and testing the server using localhost:8080.

For example, **localhost:8080/shop** could be set up to return something like **"TODO: get all items who have published==true"**. This will help to confirm that your routes are set up properly *before* they return real data.

/shop

* This route will return a JSON formatted string containing all of the items within the items.json file whose **published** property is set to **true** (i.e. "published" items).

/items

* This route will return a JSON formatted string containing all the items within the items.json files

/categories

* This route will return a JSON formatted string containing all the categories within the categories.json file

[ no matching route ]

* If the user enters a route that is not matched with anything in your app (i.e. http://localhost:8080/app) then you must return the custom message "**Page Not Found**" with an HTTP status code of **404**.
* **Note:** at this point, you may wish to send a custom 404 page back to the user (completely optional, but everyone loves a good 404 page. Here’s some ***inspiration*** for your own designs:<https://www.creativebloq.com/web-design/best-404-pages-812505>

**Step 4:** Writing the store-service.js module:

The promise-driven store-service.js module will be responsible for reading the items.json and categories.json files from within the "data" directory on the server, parsing the data into arrays of objects and returning elements (i.e. "item" objects) from those arrays to match queries on the data.

Essentially the store-service.js module will encapsulate all the logic to work with the data and only expose accessor methods to fetch data/subsets of the data.

**Module Data**

The following two arrays should be declared "globally" within your module:

* **items** - type: **array**
* **categories** - type: **array**

**Exported Functions**

Each of the below functions are designed to work with the items and categories datasets. Unfortunately, we have no way of knowing how long each function will take (we cannot assume that they will be instantaneous, i.e. what if we move from .json files to a remote database, or introduce hundreds of thousands of objects into our .json dataset? - this would increase lag time).

Because of this, **every one of the below functions must return a promise** that **passes the data** via its "**resolve**" method (or - if **no data was returned**, passes an **error message** via its "**reject**" method).

When we access these methods from the server.js file, we will be assuming that they return a promise and we will respond appropriately with **.then()** and .**catch()** (see "Updating the new routes…" below).

initialize()

* This function will read the contents of the "./data/items.json" file  
    
  **Hint**: see the [fs module](https://nodejs.org/api/fs.html#fs_file_system) & the fs.readFile method, i.e. (from the documentation):  
    
  const fs = require("fs"); // required at the top of your module  
    
  fs.readFile('somefile.json', 'utf8', (err, data) => {  
   if (err) throw err;  
   console.log(data);  
  });

Do not forget convert the file's contents into an array of objects instead of plain text (**hint**: see [JSON.parse](https://developer.mozilla.org/en/docs/Web/JavaScript/Reference/Global_Objects/JSON/parse)) , and assign that array to the **items array** (from above).

* Only once the read operation for "./data/items.json" has completed successfully (not before), repeat the process for the "./data/categories.json" and assign the parsed object array to the **categories** **array** from above.
* Once these two operations have finished successfully, invoke the **resolve** method for the promise to communicate back to server.js that the operation was a success.
* If there was an error at any time during this process, **instead** of throwing an error, invoke the **reject** method for the promise and pass an appropriate message, i.e. reject("unable to read file").

getAllItemss()

* This function will provide the full array of "items" objects using the **resolve** method of the  
  returned promise.
* If for some reason, the length of the array is 0 (no results returned), this function must invoke the **reject** method and pass a meaningful message, i.e. "no results returned".

getPublishedItems()

* This function will provide an array of "items" objects whose **published** property is **true** using the **resolve** method of the returned promise.
* If for some reason, the length of the array is 0 (no results returned), this function must invoke the **reject** method and pass a meaningful message, i.e. "no results returned".

getCategories()

* This function will provide the full array of "category" objects using the **resolve** method of the  
  returned promise.
* If for some reason, the length of the array is 0 (no results returned), this function must invoke the **reject** method and pass a meaningful message, i.e. "no results returned".

**Step 5:** Updating the code surrounding app.listen()

Before we start updating the routes in server.js to use our new store-service module, we must make a small update to the code ***surrounding*** the app.listen() call at the bottom of the server.js file. This is where the **initialize()** method from our store-service.js module comes into play.

Fundamentally, initialize() is responsible for reading the .json files from the "data" folder and parsing the results to create the "global" (to the module) arrays, "items" and "categories" that are used by the other functions. However, it also returns a **promise** that will only **resolve** successfully once the files were read correctly and the "items" and "categories" arrays were correctly loaded with the data.

Similarly, the promise will **reject** if any error occurred during the process. Therefore, we must **only call app.listen()** if our call to the **initialize()** method is successful, i.e. .**then(() => { //start the server })**.

If the initialize() method invoked **reject**, then we should not start the server (since there will be no data to fetch) and instead a meaningful error message should be sent to the console, i.e. **.catch(()=>{ /\*output the error to the console \*/})**

**Step 6:** Updating the new routes to use store-service.js

Now that the store-service.js module is complete, we must update our new routes (i.e. /shop, /items & /categories) to make calls to the service and fetch data to be returned to the client.

Since our store-service.js file exposes functions that are guaranteed to return a **promise** that (if resolved successfully), will contain the requested data, we must make use of the **.then()** method when accessing the data from within our routes.

For example, the **/categories** route must make a call to the **getCategories()** method of the store-service.js module to fetch the correct data. If **getCategories()** was successful, we can use **.then((data) => { /\* send data to the client \*/ })** to access the data from the function and send the response back to the client.

If any of the methods were unsuccessful however,the **.then()** method will not be called - the **catch()** method will be called instead. If this is the case, the server **must** return a simple object with 1 property: "message" containing the message supplied in the **.catch()** method, i.e. **.catch((err) => { /\* return err message in the format:** {message: ***err***} **\*/** **})**.

By **only** calling **res.send()** (or **res.json()**)from within **.then()** or **.catch()** we can ensure that the data will be in place (no matter how long it took to retrieve) before the server sends anything back to the client.

**Step 7:** Pushing code to a GitHub repository and Deploying to Cyclic

Once you have committed your code to your local git repository, you must also push it to a remote repository and finally deploy it to Cyclic:

* Create a new **public** repository in GitHub and name it **web322-app** (after deploying to Cyclic make sure this repository is changed to a **private** repository)
* Follow the [Cyclic Guide on web322.ca](https://web322.ca/getting-started-with-cyclic) for more details on pushing to GitHub and linking your app to Cyclic for deployment
* **IMPORTANT NOTE:** Since we are using a **free** account on Cyclic, we are limited to only **1 app**, so if you have been experimenting on Cyclic and have created apps already, you must delete one. Once you have received a grade for Assignment 1, it is safe to delete this app (login to the Cyclic website, click on your app and then click **Advanced** and finally, **Delete App**).

Assignment Submission:

* If you haven't already, please consider updating **main.css** to or using one of the themes from <https://bootswatch.com/3> to provide additional style to the pages in your app. Black, White and Gray can be boring, so why not add some cool colors and fonts (maybe something from [Google Fonts](https://fonts.google.com/))? This is your app for the semester, feel free to personalize it!
* Next, Add the following declaration at the top of your **server.js** file:

/\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
\* WEB322 – Assignment 02  
\* I declare that this assignment is my own work in accordance with Seneca Academic Policy. No part \* of this assignment has been copied manually or electronically from any other source   
\* (including 3rd party web sites) or distributed to other students.  
\*   
\* Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student ID: \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
\*  
\* Online (Cyclic) Link: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
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* Compress (.zip) your web322-app folder and submit the .zip file to My.Seneca under   
  **Assignments** -> **Assignment** 2
* Submit the URL to your app on Cyclic as an assignment comment (not just within the file, but also in the comment section when you are submitting the assignment)
* You need to create a 3-5 min video in which you demo/test your code and explain it as you do your testing. For example, when you press on a link and it takes you to a new page, you show the pieces of code that were included in this action and explain the steps it followed.
* Make sure that the video is not zipped with your project. It must be a separate file. If the video is zipped in the project you are going to loose up to 30% of your grade.

Important Note:

* **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.
* Submitted assignments must run locally, ie: start up errors causing the assignment/app to fail on startup will result in a **grade of zero (0)** for the assignment.

Templates  
  
HTML Template

|  |
| --- |
| <!DOCTYPE html> <html lang="en">  <head>  <meta charset="UTF-8" />  <meta name="viewport" content="width=device-width, initial-scale=1.0" />  <meta http-equiv="X-UA-Compatible" content="ie=edge" />  <!-- Latest compiled and minified Bootstrap 5 CSS -->  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-KK94CHFLLe+nY2dmCWGMq91rCGa5gtU4mk92HdvYe+M/SXH301p5ILy+dN9+nJOZ" crossorigin="anonymous" />  <link rel="stylesheet" href="/css/main.css" />   <title>WEB322 - Assignment Template</title>  </head>  <body>  <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">  <div class="container-fluid">  <!-- Brand and toggle get grouped for better mobile display -->  <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">  <span class="navbar-toggler-icon"></span>  </button>  <a class="navbar-brand" href="#">WEB322 - Assignment Template</a>   <!-- Collect the nav links, forms, and other content for toggling -->  <div class="collapse navbar-collapse" id="navbarNav">  <ul class="navbar-nav">  <li class="nav-item">  <a class="nav-link" href="#">Link 1</a>  </li>  <li class="nav-item active">  <a class="nav-link" href="#">Link 2</a>  </li>  </ul>  <ul class="navbar-nav ml-auto">  <li class="nav-item">  <a class="nav-link" href="#">Link 3</a>  </li>  <li class="nav-item">  <a class="nav-link" href="#">Link 4</a>  </li>  </ul>  </div>  <!-- /.navbar-collapse -->  </div>  <!-- /.container-fluid -->  </nav>  <div class="container" style="padding-top: 90px;">  <div class="row">  <aside class="col-md-3">  <h2>Right Column</h2>  <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam accumsan libero a sem venenatis pharetra.</p>  </aside>  <section class="main col-md-9">  <article>  <h2>Left Column</h2>  <p>  Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aliquam accumsan libero a sem venenatis pharetra. Nulla facilisi. In semper blandit arcu. Nullam vitae sem convallis, vehicula nisi eu, hendrerit justo.  Pellentesque libero neque, interdum nec diam bibendum, tristique pellentesque felis. Sed vel adipiscing lacus. Maecenas porta dolor a turpis aliquet, eget posuere nisi fringilla. Aenean ac turpis tristique,  feugiat mi sodales, laoreet neque. Donec tristique nec quam sit amet sagittis. Mauris elementum ullamcorper risus at luctus.  </p>  <p>  Cras dui dui, suscipit ac massa et, fermentum lacinia lacus. Aliquam erat volutpat. Phasellus non tellus quis quam eleifend laoreet. Etiam luctus augue nec lectus consequat euismod. Nulla tristique augue a urna  eleifend rutrum eget quis turpis. Curabitur consectetur aliquet lobortis. Donec id felis leo. 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Nulla facilisi. Vivamus mollis justo eget urna bibendum sodales.  </p>  </article>  </section>  </div>  </div>   <!-- Latest compiled and minified Bootstrap 5 JavaScript -->  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0-alpha3/dist/js/bootstrap.bundle.min.js" integrity="sha384-ENjdO4Dr2bkBIFxQpeoTz1HIcje39Wm4jDKdf19U8gI4ddQ3GYNS7NTKfAdVQSZe" crossorigin="anonymous"></script>  </body> </html> |

Categories Template

|  |
| --- |
| [  {  "id":1,  "category":"Home, Garden"  },  {  "id":2,  "category":"Electronics, Computers, Video Games"  },  {  "id":3,  "category":"Clothing"  },  {  "id":4,  "category":"Sports & Outdoors"  },  {  "id":5,  "category":"Pets"  } ] |

Items Template

|  |
| --- |
| [  {  "id":1,  "category":1,  "postDate":"2023-05-14",  "featureImage":"https://dummyimage.com/200x200/000/fff",  "price":9.99,  "title":"Lawnmower",  "body":"Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras convallis fringilla sem efficitur congue. Vestibulum efficitur blandit ultricies. Sed tempus mollis orci id facilisis. Aliquam placerat, ipsum eget egestas malesuada, neque nunc scelerisque felis, ut egestas turpis augue ut nisi. Curabitur vel convallis augue.",  "published":true  },  {  "id":2,  "category":1,  "postDate":"2023-05-15",  "featureImage":"https://dummyimage.com/200x200/000/fff",  "price":19.99,  "title":"Weber BBQ",  "body":"Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras convallis fringilla sem efficitur congue. Vestibulum efficitur blandit ultricies. Sed tempus mollis orci id facilisis. Aliquam placerat, ipsum eget egestas malesuada, neque nunc scelerisque felis, ut egestas turpis augue ut nisi. Curabitur vel convallis augue.",  "published":true  },  {  "id":3,  "category":2,  "postDate":"2023-05-16",  "featureImage":"https://dummyimage.com/200x200/000/fff",  "price":439.99,  "title":"PS5",  "body":"Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras convallis fringilla sem efficitur congue. Vestibulum efficitur blandit ultricies. Sed tempus mollis orci id facilisis. Aliquam placerat, ipsum eget egestas malesuada, neque nunc scelerisque felis, ut egestas turpis augue ut nisi. Curabitur vel convallis augue.",  "published":true  },  {  "id":4,  "category":2,  "postDate":"2023-05-17",  "featureImage":"https://dummyimage.com/200x200/000/fff",  "price":459.99,  "title":"XBOX",  "body":"Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras convallis fringilla sem efficitur congue. Vestibulum efficitur blandit ultricies. Sed tempus mollis orci id facilisis. 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Sed tempus mollis orci id facilisis. Aliquam placerat, ipsum eget egestas malesuada, neque nunc scelerisque felis, ut egestas turpis augue ut nisi. Curabitur vel convallis augue.",  "published":true  },  {  "id":7,  "category":4,  "postDate":"2023-05-20",  "featureImage":"https://dummyimage.com/200x200/000/fff",  "price":19.99,  "title":"Baseball",  "body":"Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras convallis fringilla sem efficitur congue. Vestibulum efficitur blandit ultricies. Sed tempus mollis orci id facilisis. Aliquam placerat, ipsum eget egestas malesuada, neque nunc scelerisque felis, ut egestas turpis augue ut nisi. Curabitur vel convallis augue.",  "published":true  },  {  "id":8,  "category":4,  "postDate":"2023-05-21",  "featureImage":"https://dummyimage.com/200x200/000/fff",  "price":99.99,  "title":"Soccer",  "body":"Lorem ipsum dolor sit amet, consectetur adipiscing elit. Cras convallis fringilla sem efficitur congue. 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