ANGULAR LAB 4: SHOPPING CART

Task: Create a folder that houses two subfolders. One subfolder for the Express server and the other for your Angular application. Both subfolders will be unique repos on Github. Build a REST API with an Express server. Create a module that contains routes for your front-end to communicate with. Test the endpoints with Postman. Add a front-end to display the shopping cart items from your back-end API.

What does the application do?

- 6. The back-end REST API provides access to an array of shopping cart items.
- 7. The back-end will have routes for GET, POST, PUT, and DELETE which allows our front-end to communicate with our server. Each route will be handling the following functionality:
 - a. **GET /cart-items** returns an array of all items
 - b. **POST /cart-items** for now, log the **body** to the console. (later, this will add a new item to the list)
 - c. **PUT /cart-items/:id** for now, log the **id** param and the **body** to the console. (later, this will replace an item in the list)
 - d. **DELETE** /cart-items/:id for now, log the id param to the console. (later, this will delete an item from the list.)
- 8. When you serve this Angular application, it fetches the shopping cart items from the API and displays them **beautifully**.

Build Specifications:

Server Side

- 6. Use Express to create your server.
- 7. Require the module that will contain the routes you have created.
- 8. Start your server out with a hard-coded array of cart items, each including id, product, price, and quantity.
- 9. Test your endpoints using Postman.

Client (Angular) Side

- 1. Build an Angular app
- 2. Create an interface called **Item**:
 - a. product: string, price: number, quantity: number, edit?: boolean;
- 3. Create a component named **Products**
- 4. Create a service named **Cart** in Angular. Give it a **getAllItems()** method that uses http to make a GET request to your /cart-items API.
- 5. Display the cart items from the service in the **Products** view.
- 6. For this part of the lab, we do NOT yet need to handle POST, PUT, and DELETE on the Angular side.



Bonus:

- 1. Modify your POST endpoint to add an item to the array.
- 2. Modify your DELETE endpoint to remove an item from the array, based on the ID.
- 3. Modify your PUT endpoint to replace an item in the array, based on the ID.

Sample designs:



