MET CS601: Module 5 Assignment

General Rules for Homework Assignments

- You are strongly encouraged to add comments to your source code. Doing so will help your facilitator to understand your logic/approach and grade your work more accurately.
- You must work on your assignments individually. You are ***not allowed*** to copy the answers from others. However, you are encouraged to discuss approaches to the homework assignment with your facilitator
- You are expected to write your own code for all assignments. You may use an IDE or advanced text editor for your assignments, but you *must* ***not*** use any auto generated code provided by such tools or other applications. So be sure to write your own code in the editor window, don't use the WYSIWYG builder (if applicable).
- Do not use any unapproved code libraries or frameworks.
- Each assignment has a strict deadline. However, you are still allowed to submit your assignment within ***two (2) days*** after the deadline with a penalty. 15% of the credit will be deducted unless you made previous arrangements with your facilitator. Assignments submitted 2 days after the deadline will not be graded.
- When the term *lastName* is referenced in an assignment's file or folder name, please replace it with ***your*** last name.

Create a new folder/directory named **CS601_HW5_*lastName***. Place your solution(s) to the assignment requirements in this folder.

NOTE: THIS DOCUMENT CONTAINS MULTIPLE PAGES

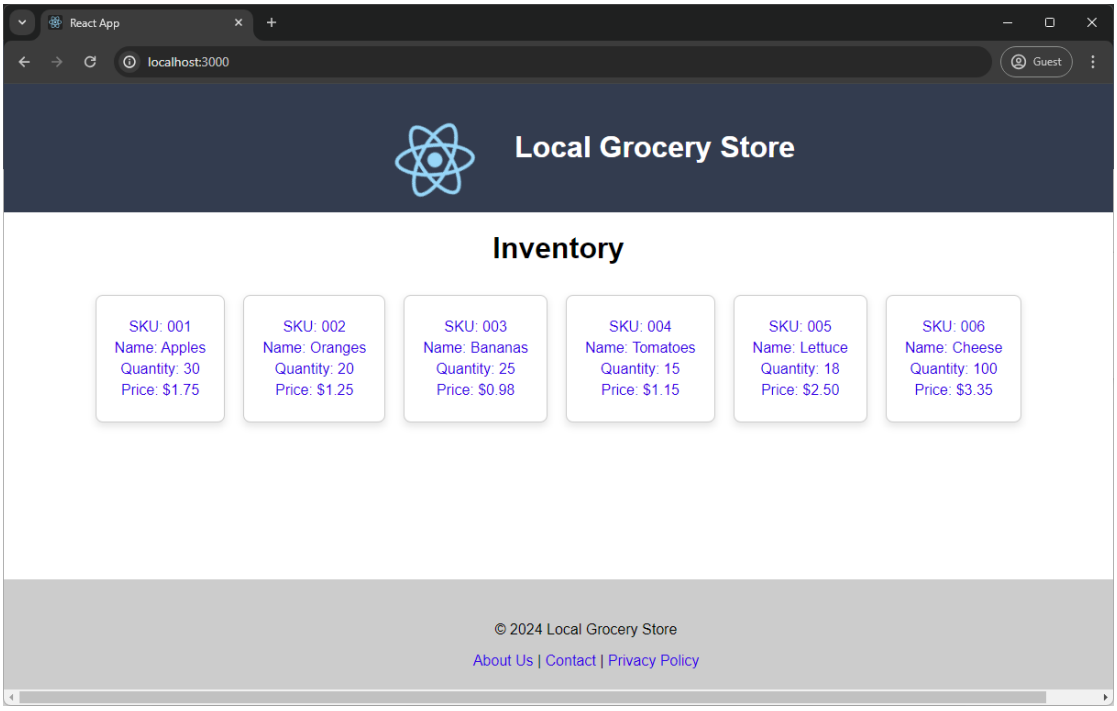
Inventory Management Application

You've been hired as a junior front-end developer for a local grocery store. The store manager wants an efficient way to display a list of inventory items on the home page of their new website. The primary goal is to develop a React application called "**Inventory**" with a user-friendly interface that shows the name of the store, a store logo, and a dynamically rendered list of products, each including its SKU, Name, Quantity, and Price. The stakes are high, and you have exactly one week to deliver a functional minimum viable product (MVP).

Requirements

Complete the following using React.

1) React Setup
   a. Set up a React development environment (Create React App or similar).
   b. Alternatively, you can use the non-build approach.
   c. Organize your project into components, ensuring a clear structure that separates logic and presentation.
2) Design the Home Page
   a. The name and logo of the store are prominently displayed.
   b. A list of current inventory items is displayed (see details below).
   c. A footer is displayed at the bottom of the page.
3) Inventory Data
   a) The inventory data should be stored in a JSON file (e.g., **inventory.json**).
   b) Create at least five items of your choice for the inventory.
   c) Each item should have four fields/keys:
      i) **SKU**: int/string/alpha-numeric (unique)
      ii) **name**: string
      iii) **qty**: int
      iv) **price**: float
4) Inventory Item Component
   a) Create a React component called **InventoryItem** to represent a single item.
   b) This component should be reusable and designed to accept props.
   c) Display data for the SKU, name, qty, and price fields.
5) Inventory List Component
   a. Create a React component called **InventoryList** to render the list of items.
   b. Use list rendering within your JSX to render the inventory list.
   c. You must use the **InventoryItem** component to render each item.
6) Run your program and verify that it works as outlined above. A sample screenshot is provided below to help you visualize.



To ensure a good grade, add additional work to style the page and build additional components to render content. Just be sure to provide original work for all aspects of the assignment.

Assessment/Grading

Your assignment submission will be scored by the following criteria:

1. Strict adherence to the requirements stated above: 70%
2. Code validates without errors (warnings are OK): 10%
3. Overall quality of work and effort as determined by your facilitator: 20%
   a. Includes your project/assignment also have a README.md file

It is important that your code passes validation; you should use http://validator.w3.org for assistance.

You must also validate your CSS code as well, that can be done here: http://jigsaw.w3.org/css-validator/

Submission

Export your **CS601_HW5_*lastName*** folder containing all the relevant sub-folders and files as a zip file and upload the zip file to the appropriate assignment submission area.