

# MET CS601: Module 6 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\_HW6\_***lastName*. Place your solution(s) to the assignment requirements in this folder.

*NOTE: THIS DOCUMENT CONTAINS MULTIPLE PAGES*

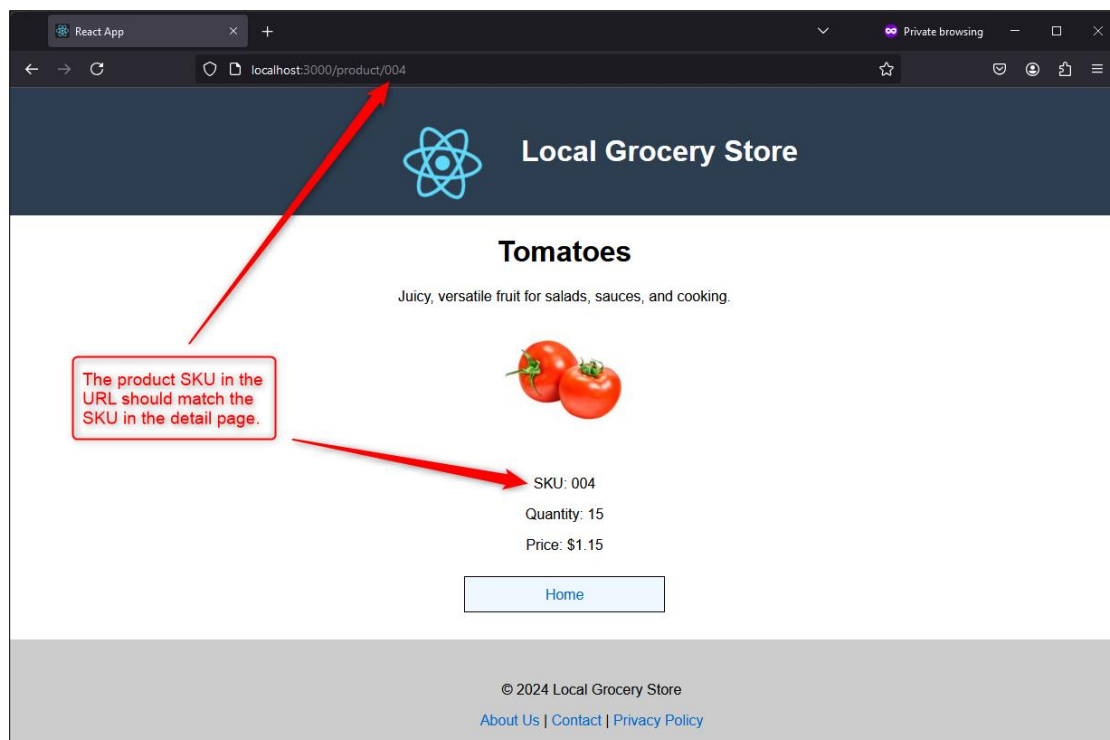
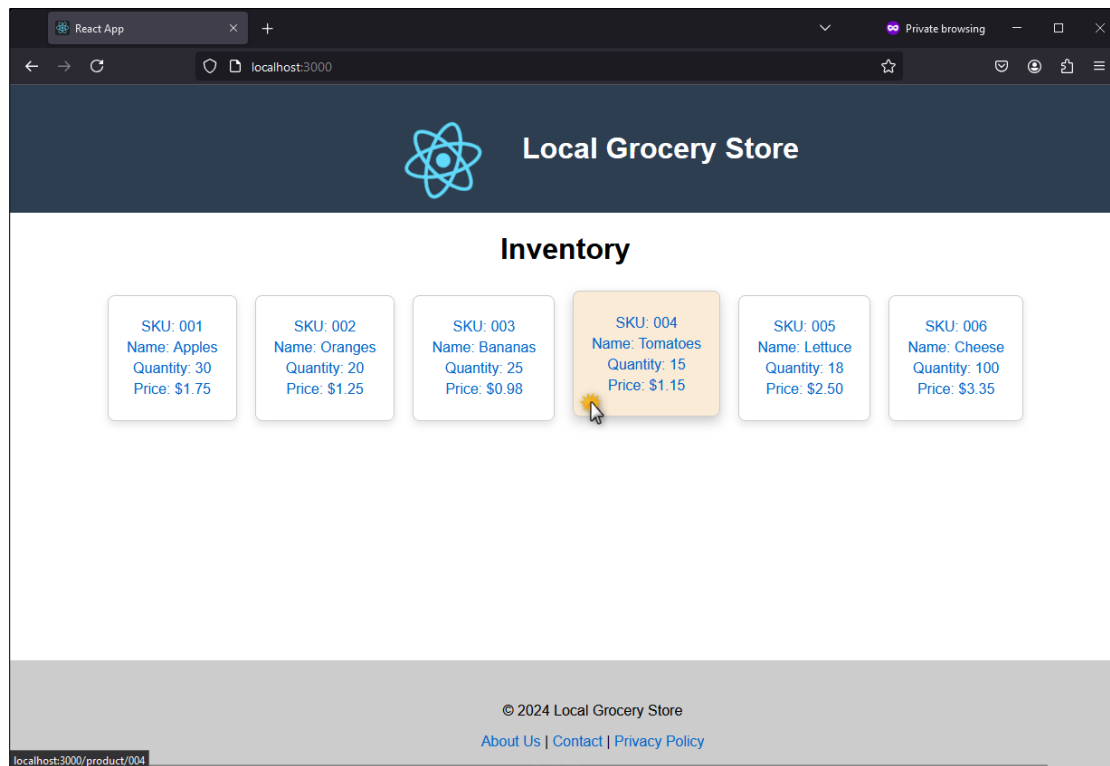
## Inventory Management Application - Update

The store manager was very impressed with the grocery store inventory application that you built for them last week. Now, she wants to enhance the app to include detailed pages for each product, allowing store staff and customers to view comprehensive information about the store's products. Each item listed on the home page should link to its detailed page, where additional product details can be viewed. She also wants to include a description and a photo for each product.

### Requirements

You will need Assignment 5 for this assignment. Before you begin, make a backup of Assignment 5, then complete the following using React.

- 1) Design the Home Page
  - a. Each item needs to be clickable and linked to a detailed page for that specific item.
  - b. Everything else should remain the same as before.
- 2) Inventory Data Update
  - a. Update the inventory data to include two additional fields/keys:
    - i) **description**: A short description of the item.
    - ii) **image**: The URL of the product image.
  - b. Place the image files in the **/public** directory.
- 3) Detailed Product Component
  - a. Create a React component called **ProductDetail** to represent a single product information.
  - b. This component should be reusable and designed to accept props.
  - c. Display all the production information.
  - d. Provide a link back to the Home page.
- 4) Dynamic Routing
  - a. Implement dynamic routing using React Router (version 6 recommended) to handle navigation between the home page and individual product details page.
  - b. Configure routes to ensure each product detail is accessible via a unique URL based on the product's SKU.
- 5) Run your program and verify that it works as outlined above. See sample screenshots provided below to help you visualize this.



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\_HW6\_***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.