

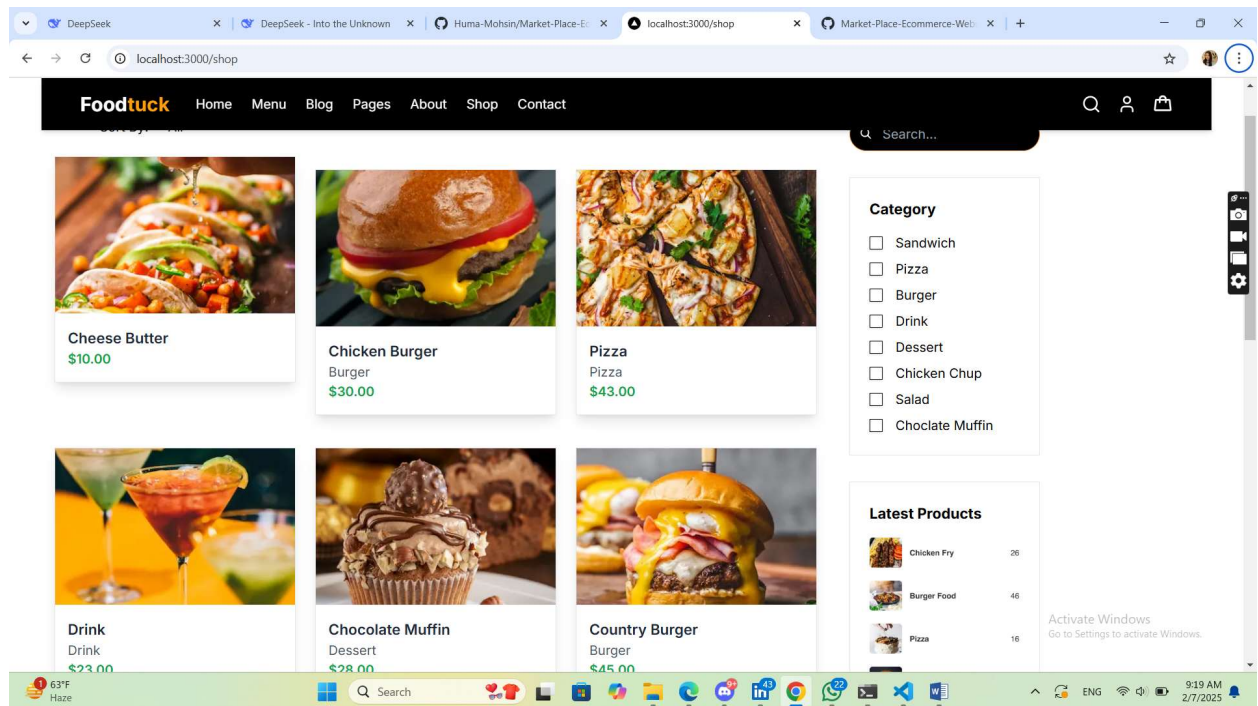
Day-4 Report: Marketplace Ecommerce Website Development

Project Overview: On Day 4 of developing my Marketplace Q-Commerce Website, I focused on integrating key functionalities and ensuring smooth interactions with the backend through API data fetching, along with the implementation of dynamic routing to display individual product details. Additionally, I worked on refining the cart functionality and explored the gifts mechanism as a way to enhance the user experience.

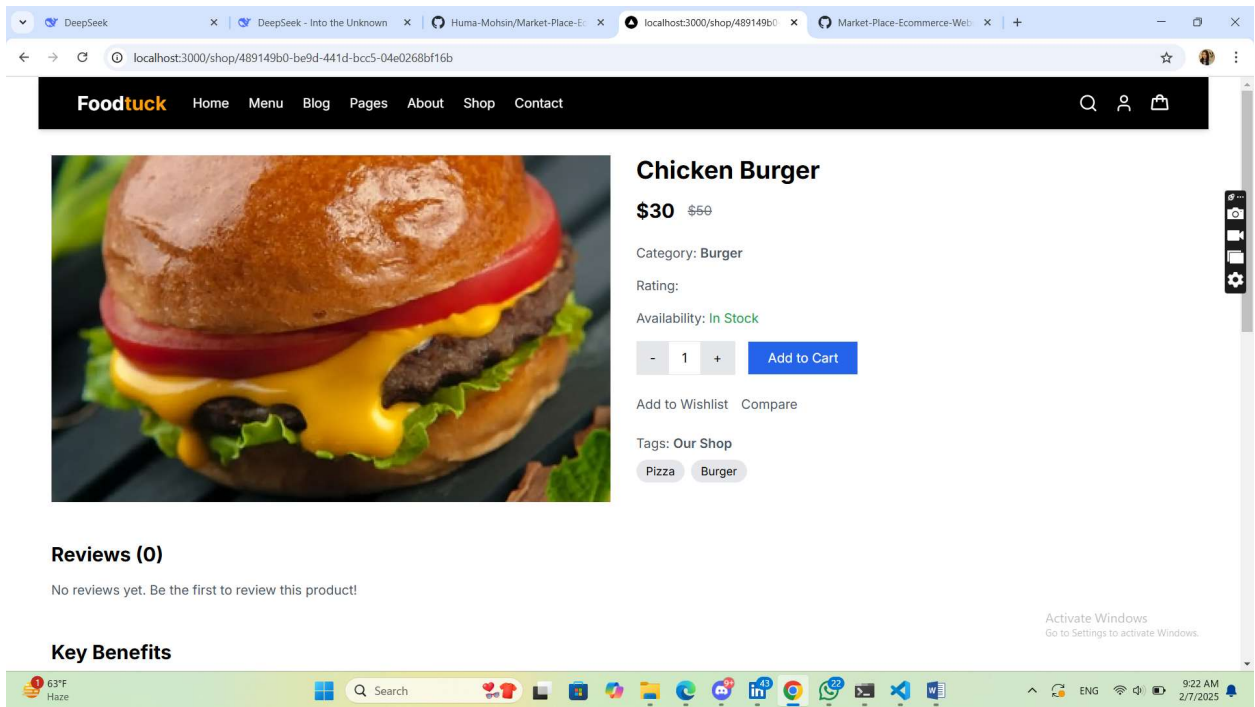
Key Features Implemented:

1. Data Fetching & Dynamic Routes:

I implemented data fetching via API to dynamically fetch products from the backend and display them on the frontend. The product information, including product names, descriptions, images, prices, and availability, is fetched and displayed in a grid layout.



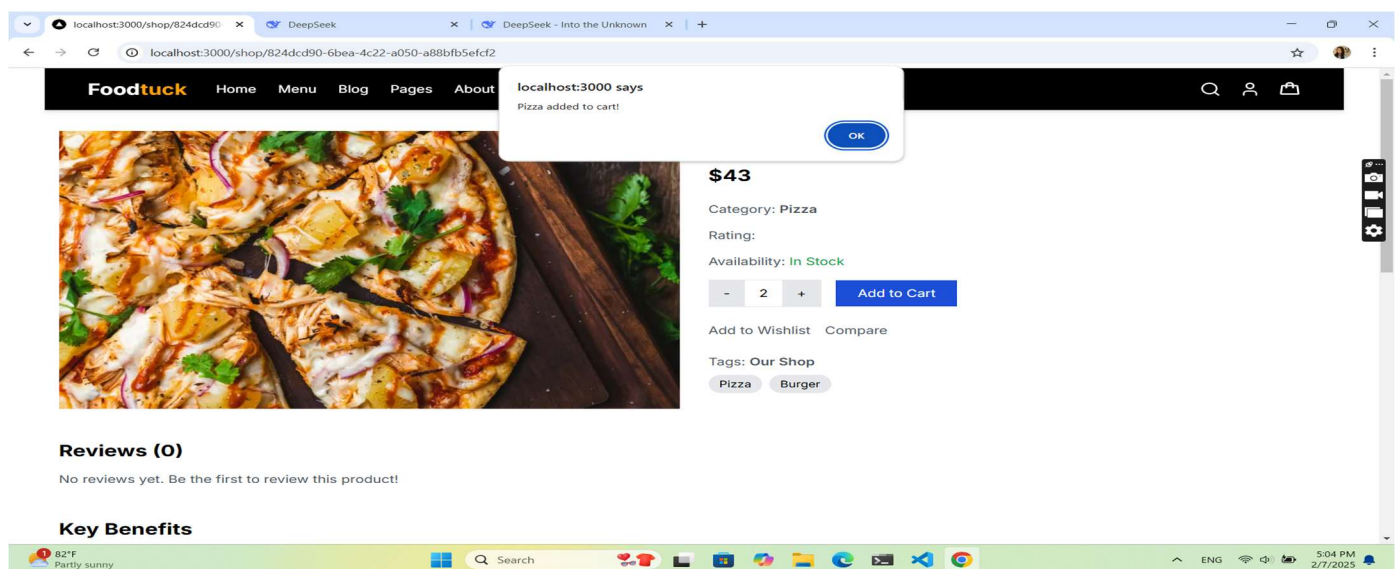
I also added dynamic routing to display each item on a unique page when the user clicks on the item. This is done by utilizing Next.js dynamic routes, which allows the application to fetch and display data for a specific item based on the id.



2. Add to Cart Functionality:

An essential feature added to the site is the Add to Cart functionality, allowing users to add Item to their cart from Item detail page.

Upon clicking the "Add to Cart" button, a confirmation message is displayed using **SweetAlert2**, notifying the user that the product has been successfully added to the cart.

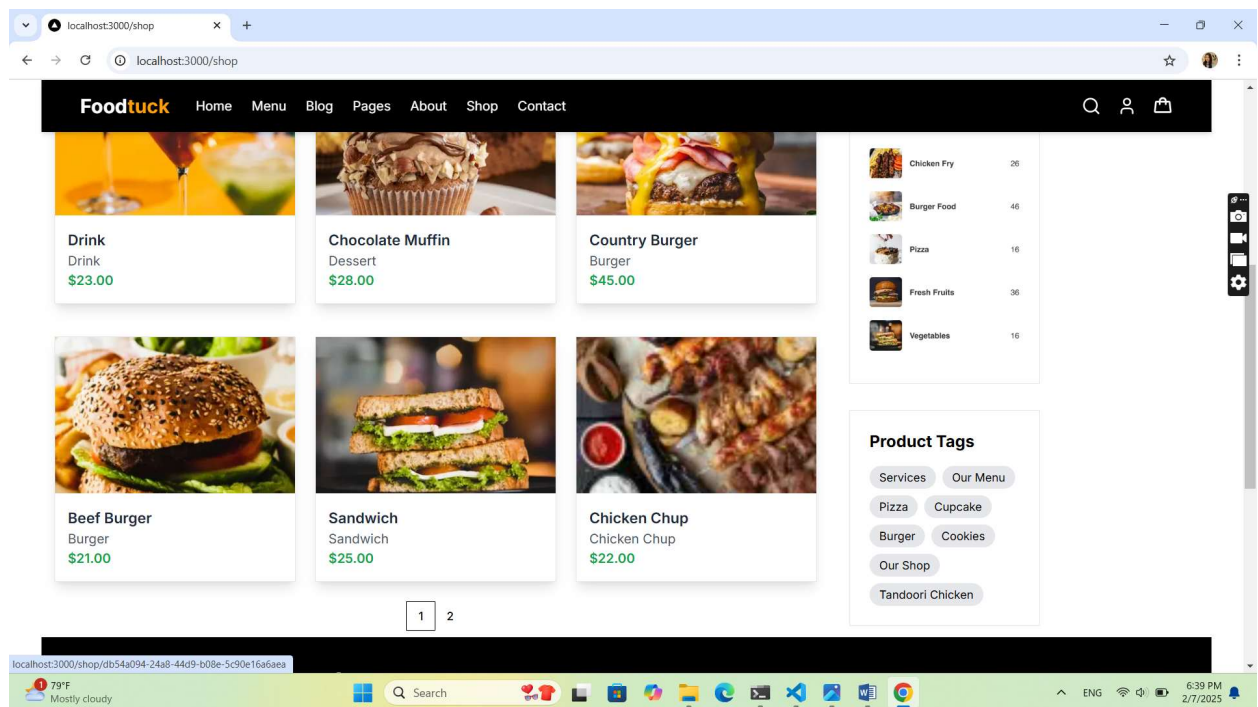


3. CRUD Operations:

The website is designed to allow for CRUD (Create, Read, Update, Delete) operations on products. This allows users to create new products, view them, update their details, and delete them if necessary. These operations are executed via API calls to the backend, and the frontend dynamically reflects these changes.

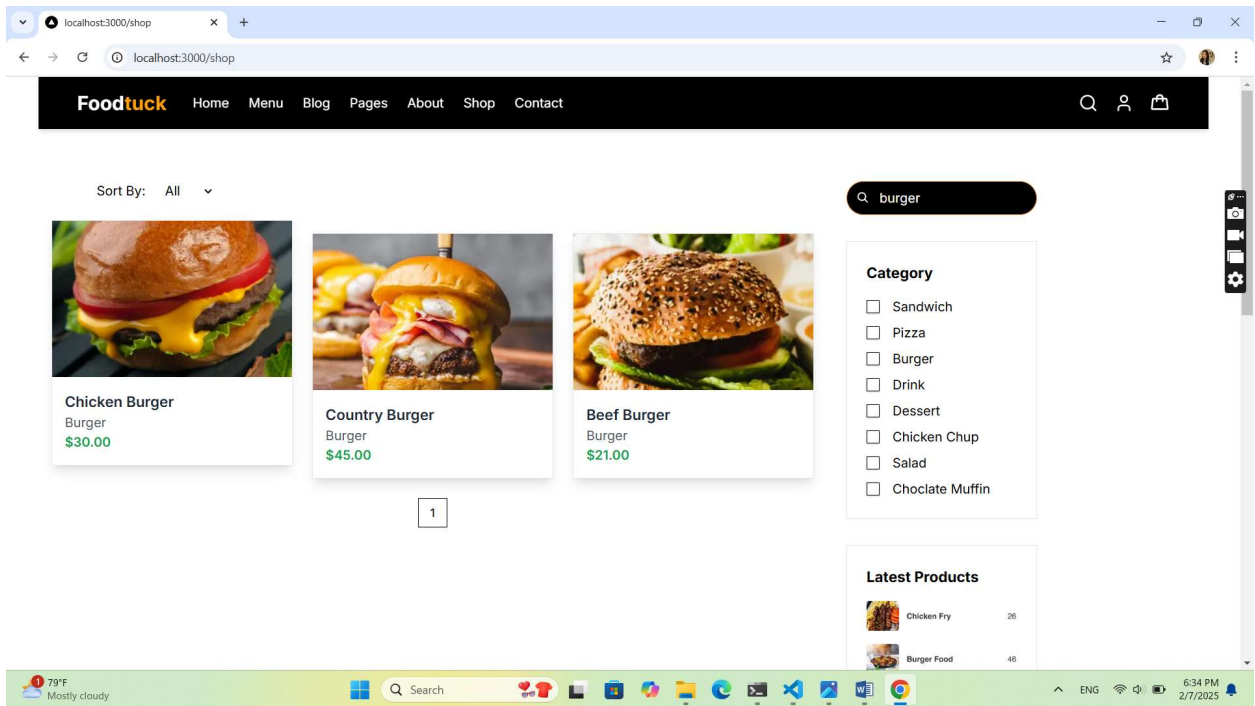
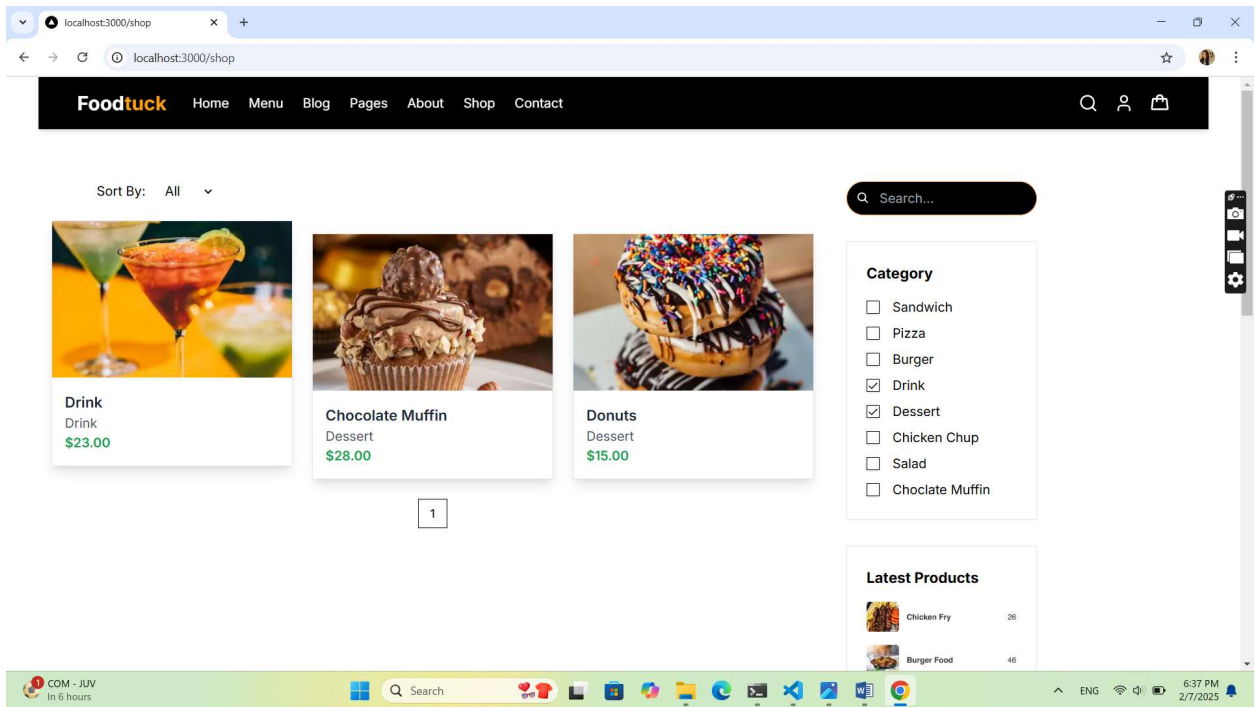
4. Pagination:

I implemented pagination to ensure that the product listings remain manageable and do not overwhelm the user. The pagination allows users to navigate through different pages of products, making the browsing experience smoother and more efficient.



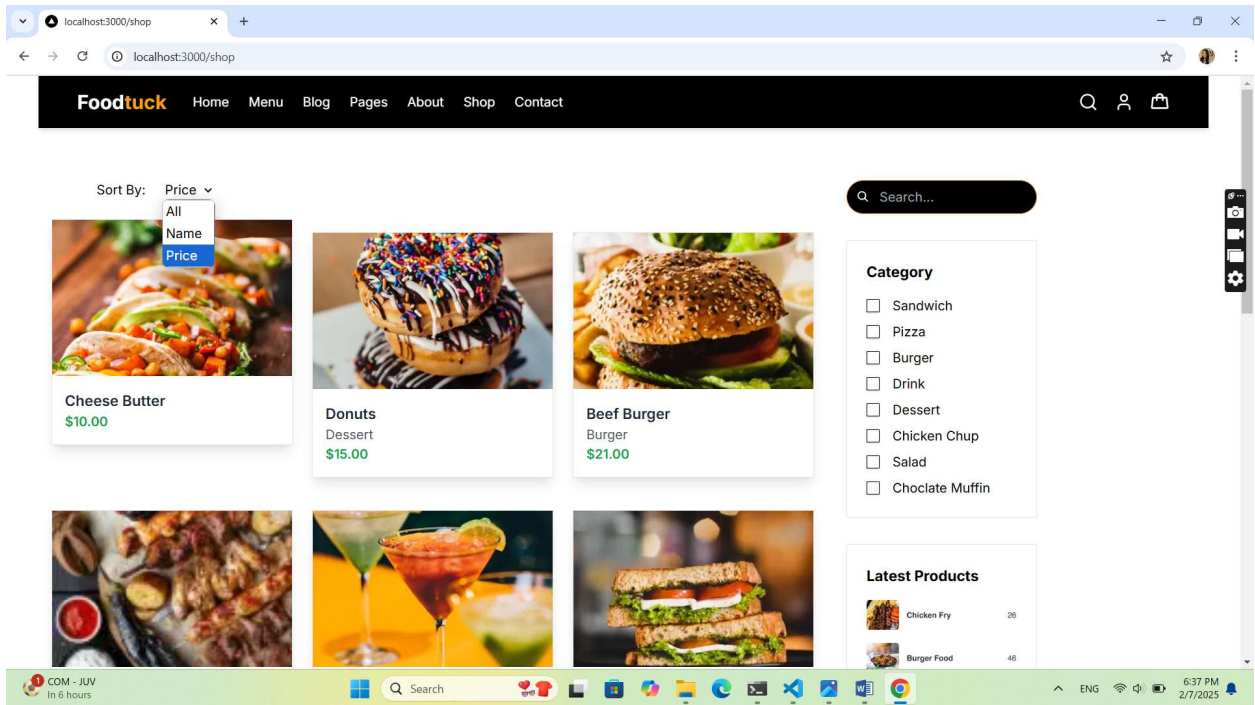
5. Search Bar Functionality:

A Search Bar feature has been integrated to allow users to easily search for Item by name, Price & category. As the user types in the search query, the search results dynamically update to show matching products in real-time.



The search functionality is connected to the backend API, which filters products based on the search input and displays the relevant products on the page.

The search bar also includes basic error handling and a message if no products are found for the query entered.



Screenshots of the implementation are attached below to demonstrate the progress made in the following areas:

- Product listings with dynamic routing.
- Product Detail Page (individual product display).
- Add to Cart functionality.
- Pagination of product listings.
- Search bar functionality.
- The current work on the website is ongoing, with plans to refine the user experience, including better handling of user authentication and authorization, improvements to the cart and checkout flow, and adding features like order history and user profiles.
- I am also working on integrating more advanced features, such as real-time notifications and enhanced payment gateway integration.

Conclusion:

Day 4 marked significant progress in the development of the Marketplace Q-commerce Website. With essential features like product data fetching, dynamic routes, cart functionality, search bar functionality, pagination, the website is progressing toward becoming a fully functional Q-commerce platform. The focus on a smooth and interactive user experience is at the core of this development. I look forward to further refining the website and adding more features in the upcoming days. Attached: Screenshots of Work Progress:

1. Product Listings Page (With dynamic routing)
2. Product Detail Page (Individual Product Display)
3. Add to Cart Action and Confirmation
4. Pagination in Action
5. Search Bar Functionality