Hackathon Day4

Implementation Report:

Introduction:

The goal of this project was to design a user-friendly and visually appealing food eCommerce website that offers a seamless shopping experience. The platform aims to provide customers with easy access to a wide variety of high-quality meals, making online food ordering simple, convenient, and enjoyable. By integrating smooth navigation and efficient checkout processes, the project focuses on enhancing user experience and boosting customer satisfaction.

Steps Taken to build and integrate components:

Frontend development:

To create a food eCommerce website using **Next.js** and **Tailwind CSS**:

1. **Add Content**: On the **Home** page, introduce the store; on the **Shop** page, display products with links to individual product details; on the **About** page, provide information about store.

2. **Tailwind CSS Styling**: Utilize Tailwind's utility classes to style sections, buttons, and typography for a responsive, modern design.

Backend Development:

1. **Authentication/Authorization using JWT Token**:

   o **JWT (JSON Web Token)** is used for secure authentication and authorization in web applications.

2. **Payment Gateway Integration (JazzCash, EasyPaisa, Bank)**:

   o Payment gateways like **JazzCash**, **EasyPaisa**, and bank APIs are integrated to facilitate online payments for customers.

   o When users proceed to checkout, they can choose a payment method (e.g., JazzCash, EasyPaisa, or Bank transfer).

Component Integration:

1. **Cart System**:

   o The **Cart System** allows users to add products to their cart, view them, and proceed to checkout.

2. **User Profile**:

- The **Profile System** allows users to view and manage their profile details such as name, contact information, and shipping address.

- It enables users to update personal information and check their order history. JWT tokens are used for authentication to ensure secure access to the profile.

3. **Checkout Process**:

- The **Checkout Process** guides the user through placing an order. It typically includes:

  - Shipping details (name, address, contact)

  - Payment method (integration with JazzCash, EasyPaisa, etc.)

  - Order confirmation

- The backend validates the order and processes payments, generating invoices and confirming the transaction.

Steps for implementation:

1. Next.js is used as the frontend framework, integrating seamlessly with Sanity CMS for dynamic content management via the API.

2. Tailwind CSS ensures a responsive, fast, and modern design.

3. useState, useEffect, and useContext are utilized to manage state, side effects, and shared data across the app.

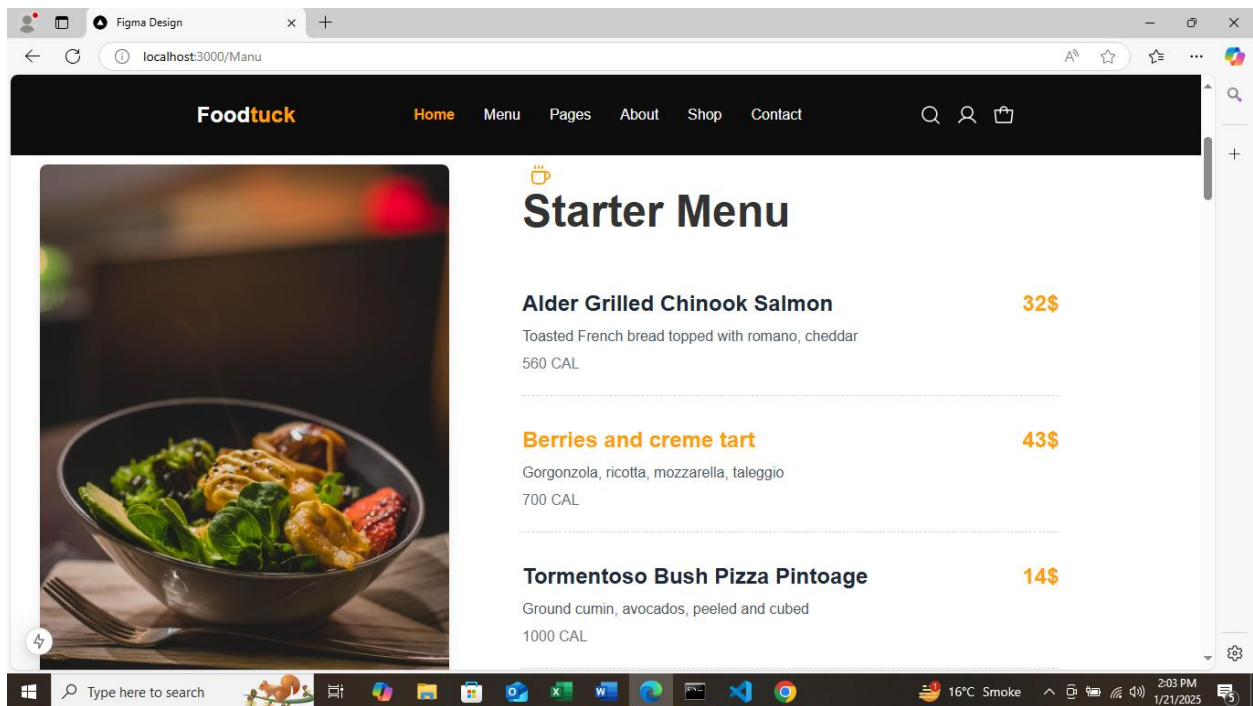4. API testing ensures smooth data interaction between the frontend and backend.

Conclusion:

This project utilizes Next.js, Tailwind CSS, and Sanity CMS to build a scalable, user-friendly food eCommerce website. It features dynamic content management, fast performance, and responsive design. With reusable components and hooks like useState, useEffect, and useContext, the website ensures efficient updates and easy maintenance. The integration of key systems like cart, user profiles, and checkout provides a seamless user experience.

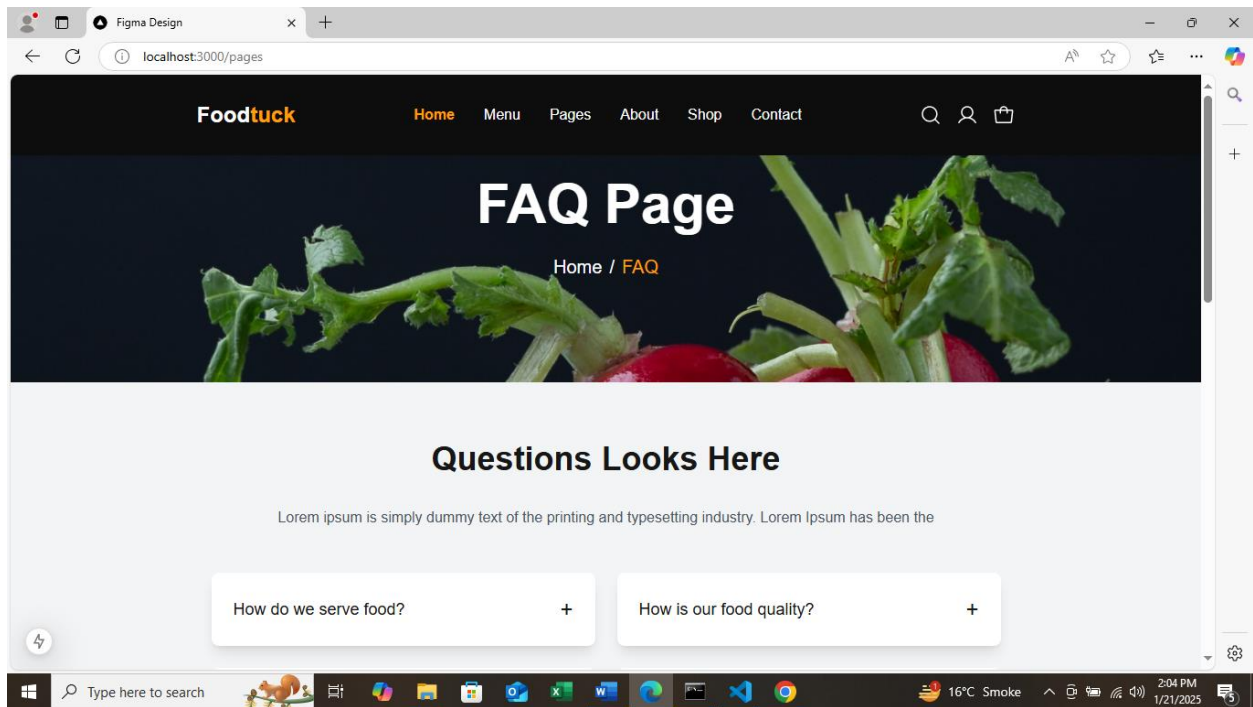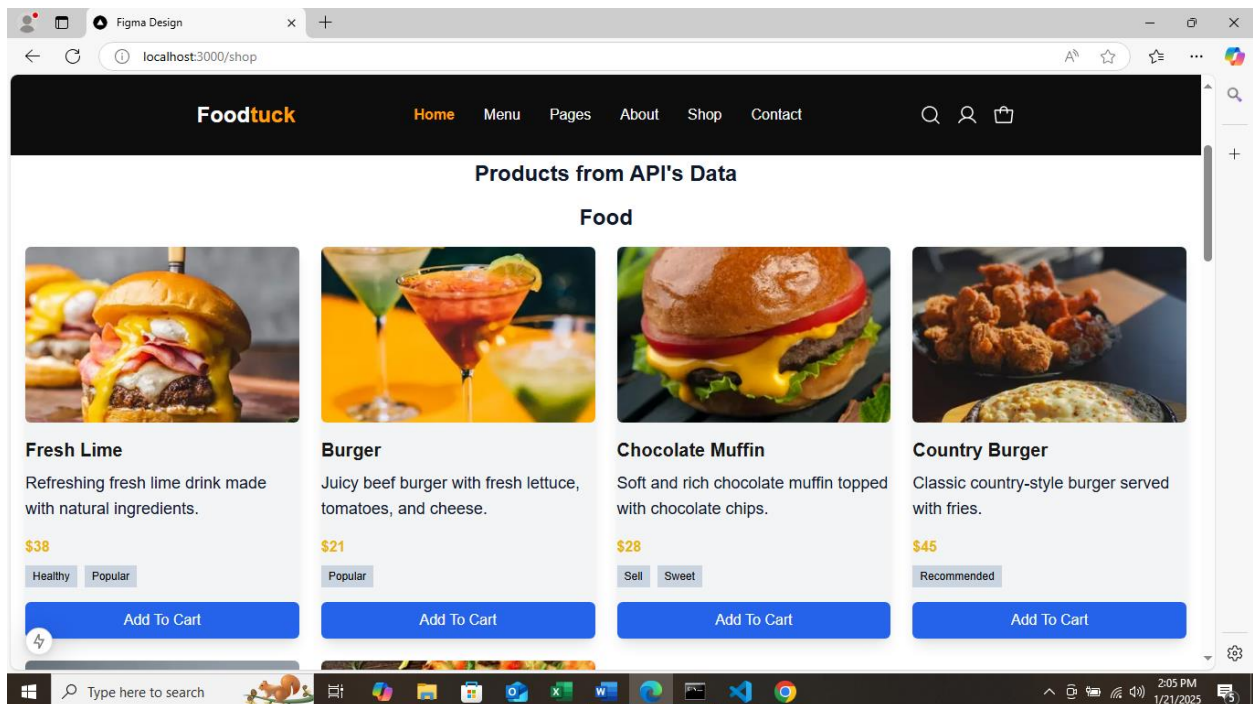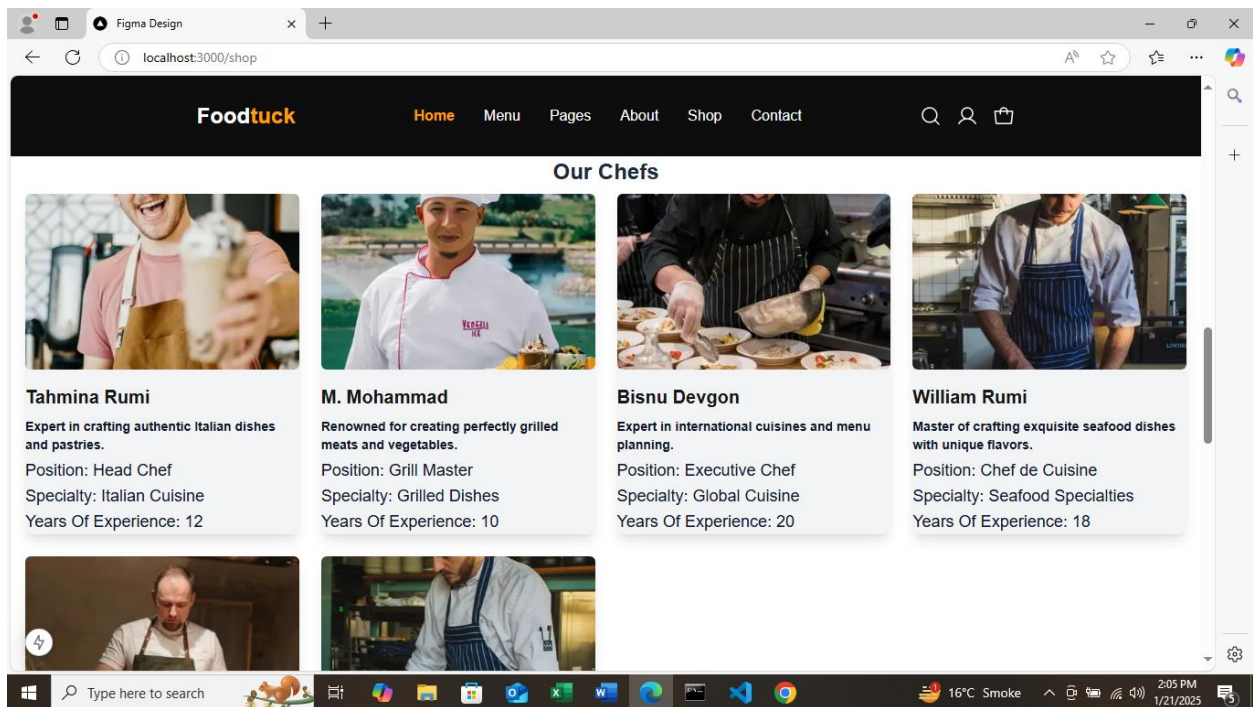# Here are some screenshots of my project:

Home page:
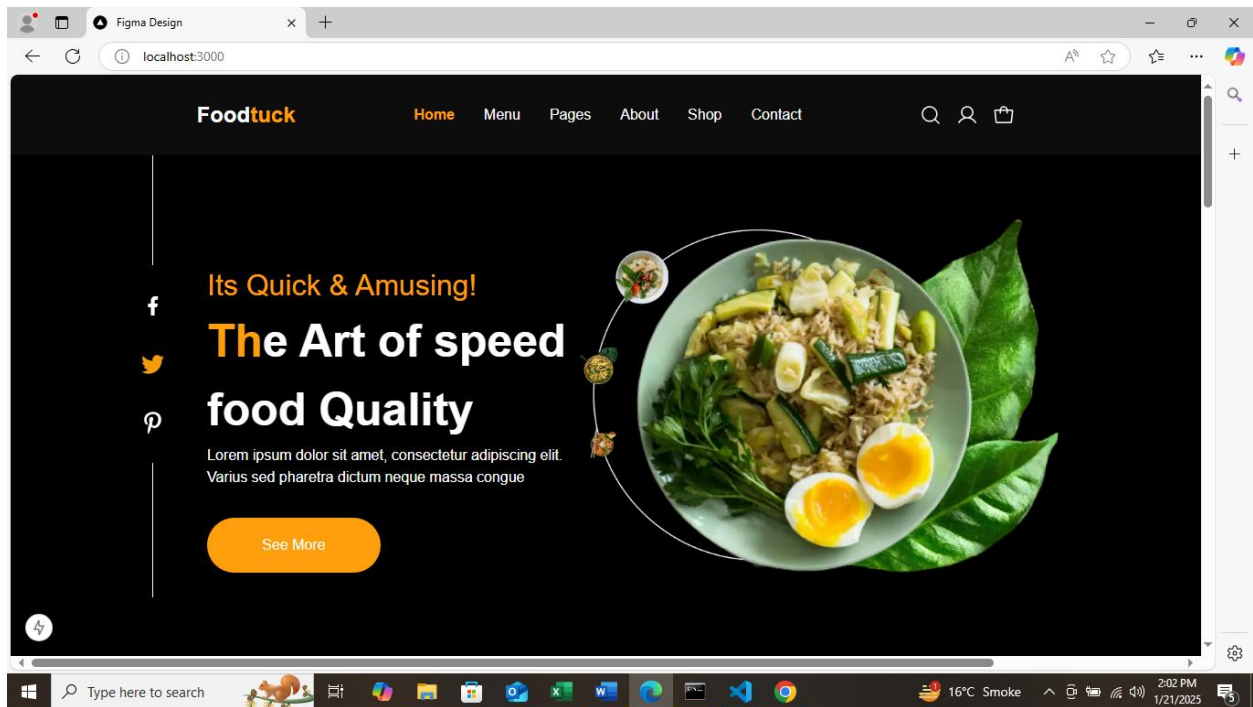
Menu page:

FAQ Page:

Shop page:

Contact page: