بِسۡمِ ٱللَّهِ ٱلرَّحۡمَٰنِ ٱلرَّحِيمِ

FATIMA JINNAH WOMEN UNIVERSITY,
RAWALPINDI

SOFTWARE CONSTRUCTION AND DEVELOPMENT

(BSE-402)

END SEMESTER PROJECT REPORT SUBMITTED TO

DR MUKHTAIR BANO

DEPARTMENT OF SOFTWARE ENGINEERING

SECTION B

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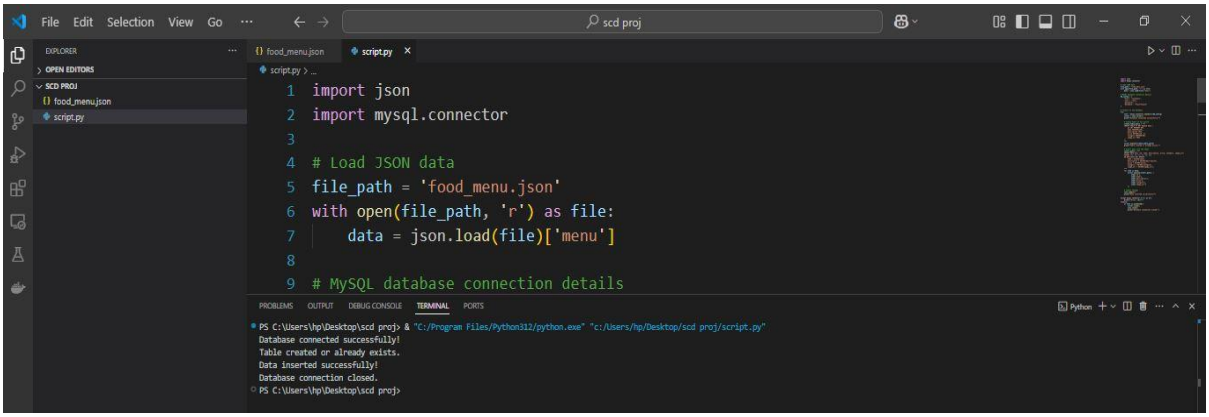
Flavor Fiesta - A Food Ordering Website

Introduction

Flavor Fiesta is a full-stack food ordering website designed to simplify and enhance the online food ordering experience. The front-end, built with HTML, CSS, and JavaScript, provides an intuitive and engaging user interface. The back-end, powered by Spring Boot, ensures efficient processing and management of user requests and data. This report highlights the project's development process, technologies used, key features, and challenges faced.



Project Objectives

- Create a visually appealing, user-friendly platform for food ordering.
- Implement a scalable back-end to handle dynamic user interactions.
- Ensure seamless integration between the front-end and back-end.
- Showcase the website's development journey and key functionalities.

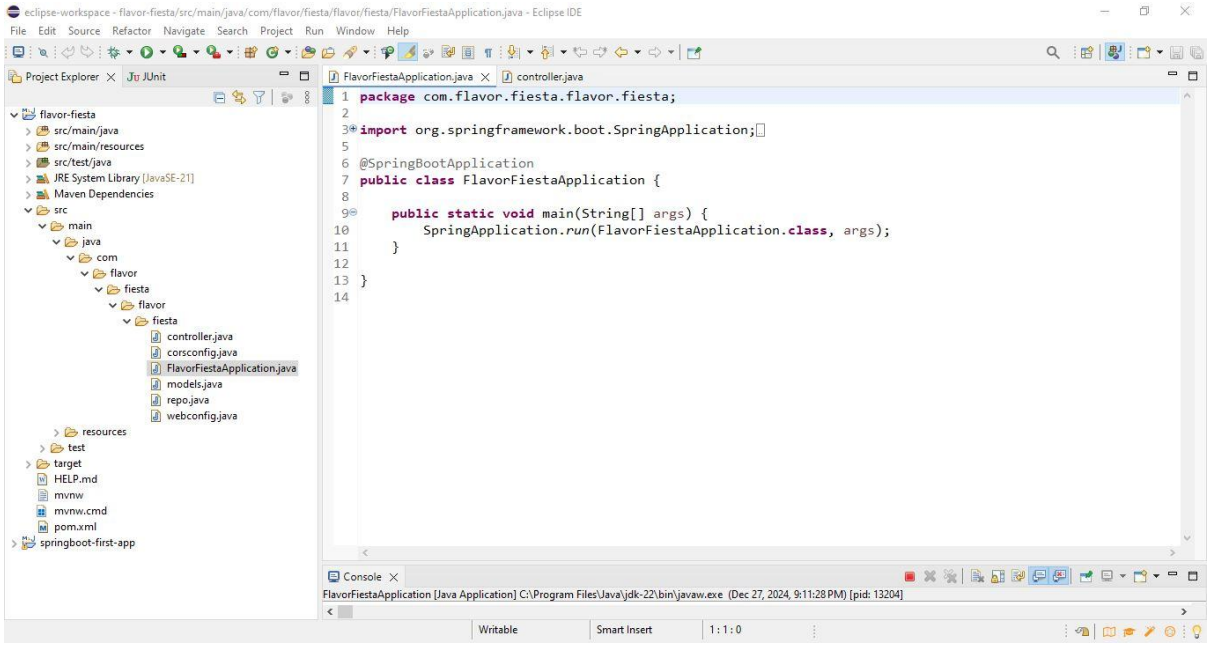
Technologies Used

1. **Front-end**:

   - **HTML**: Defines the structure and layout of the website.
   - **CSS**: Enhances aesthetics and ensures responsiveness.
   - **JavaScript**: Adds interactivity and dynamic behaviors.

2. **Back-end**:

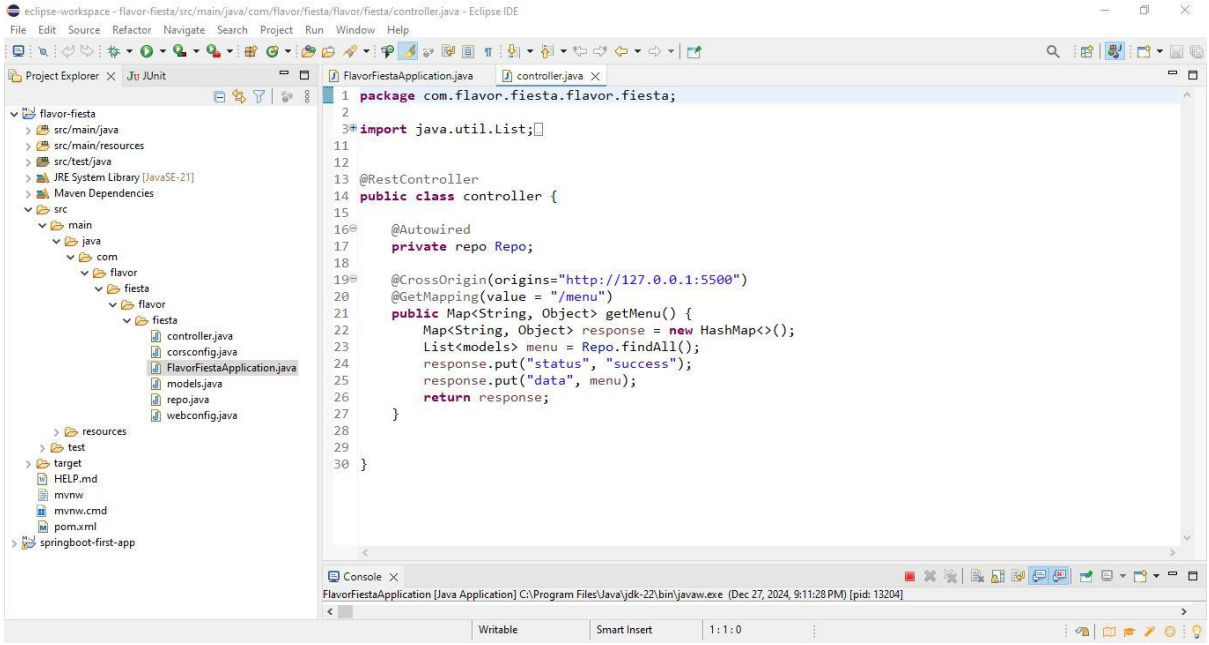
   - **Spring Boot**: Manages server-side logic and RESTful APIs.
   - **Eclipse IDE**: Streamlines back-end development and debugging.



3. **Tools**:

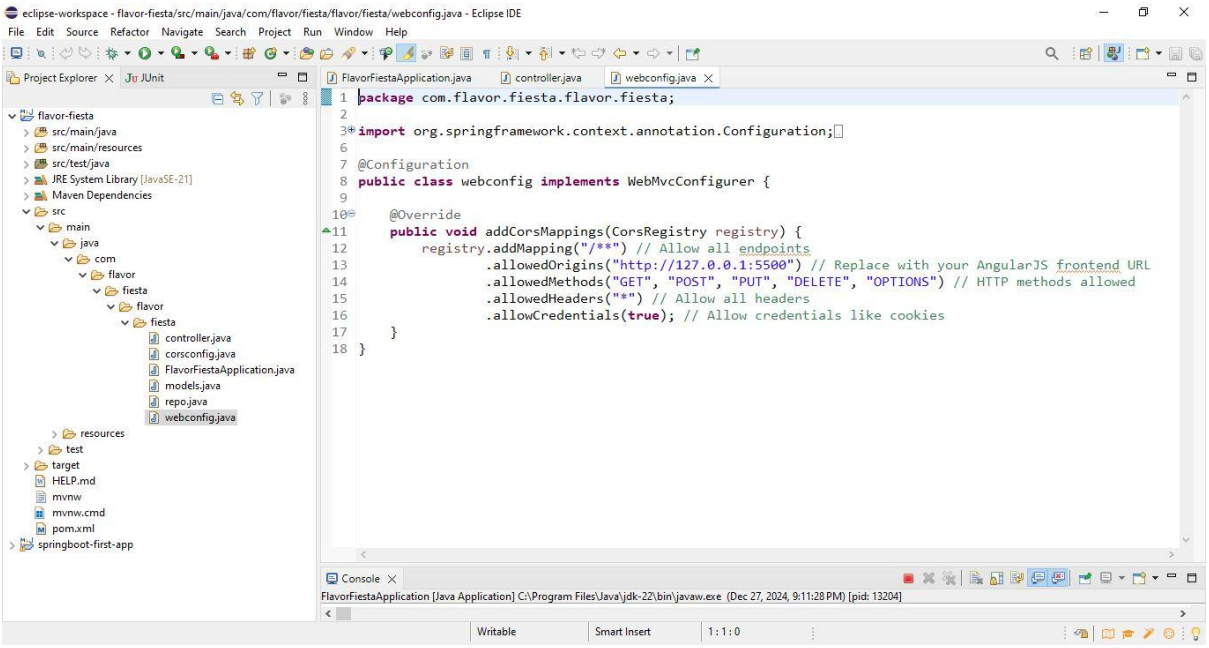
- **Visual Studio Code**: Front-end development environment.
- **MySQL**: Database for storing user and order information (if applicable).

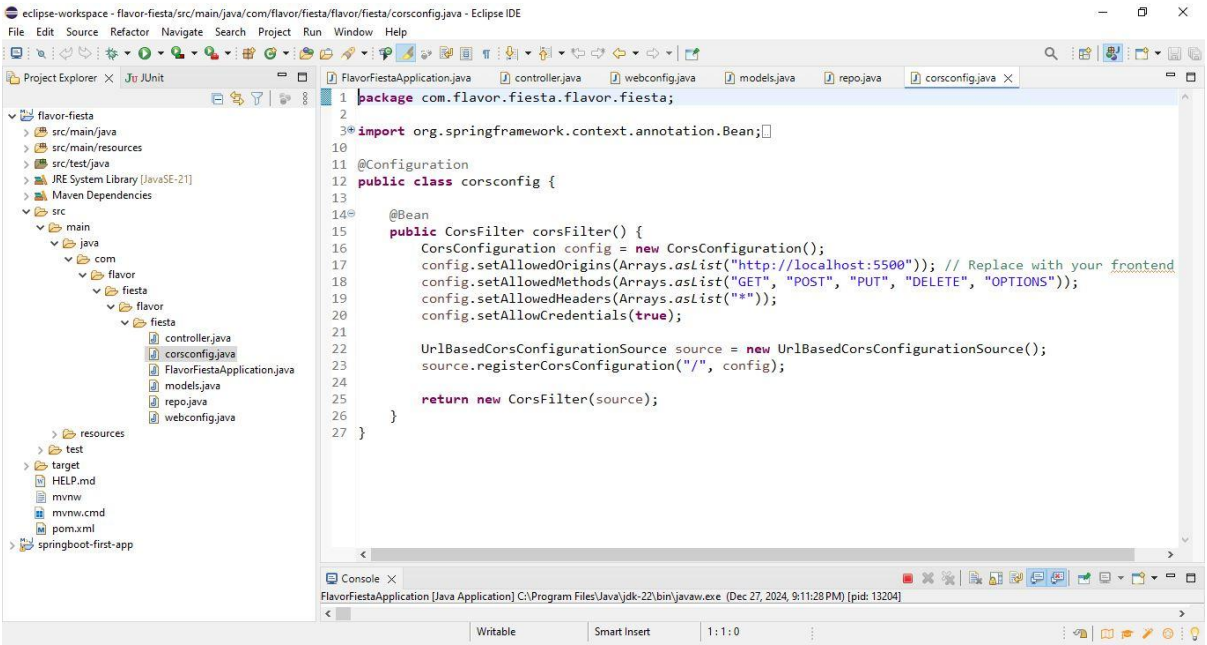
Database schema or configuration view



Project Architecture

- **Front-end:** The front-end delivers a responsive and engaging interface for users to browse menus, add items to the cart, and place orders.
- **Back-end**: The back-end processes user inputs, handles authentication, and manages data through RESTful APIs.
- **Integration**: The front-end communicates with the back-end using API calls, ensuring real-time data synchronization.





Key Features

1. User Interface:

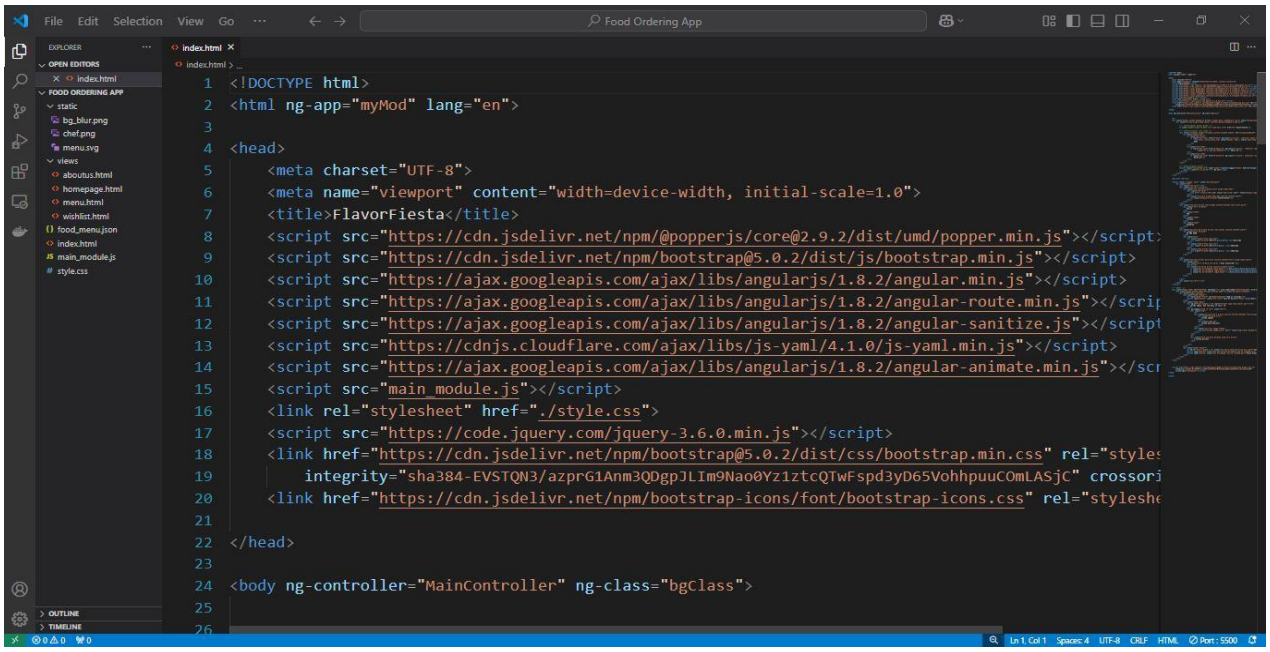
- Attractive homepage with intuitive navigation.
- Search functionality for quick access to food items.
- A cart system to manage selected orders before checkout.

2. Back-end Functionalities:

- Secure user authentication.
- Order processing and database storage.
- Real-time order tracking and status updates.

3. Responsive Design:

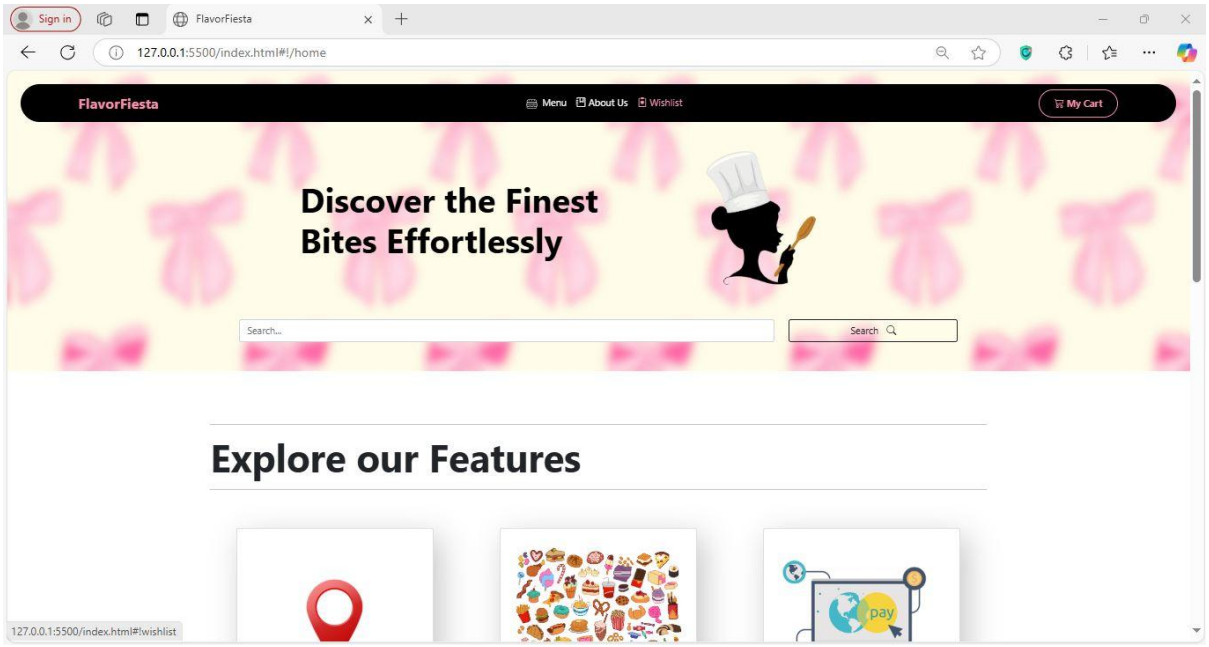
Optimized layouts for various screen sizes, including desktops, tablets, and mobile phones.

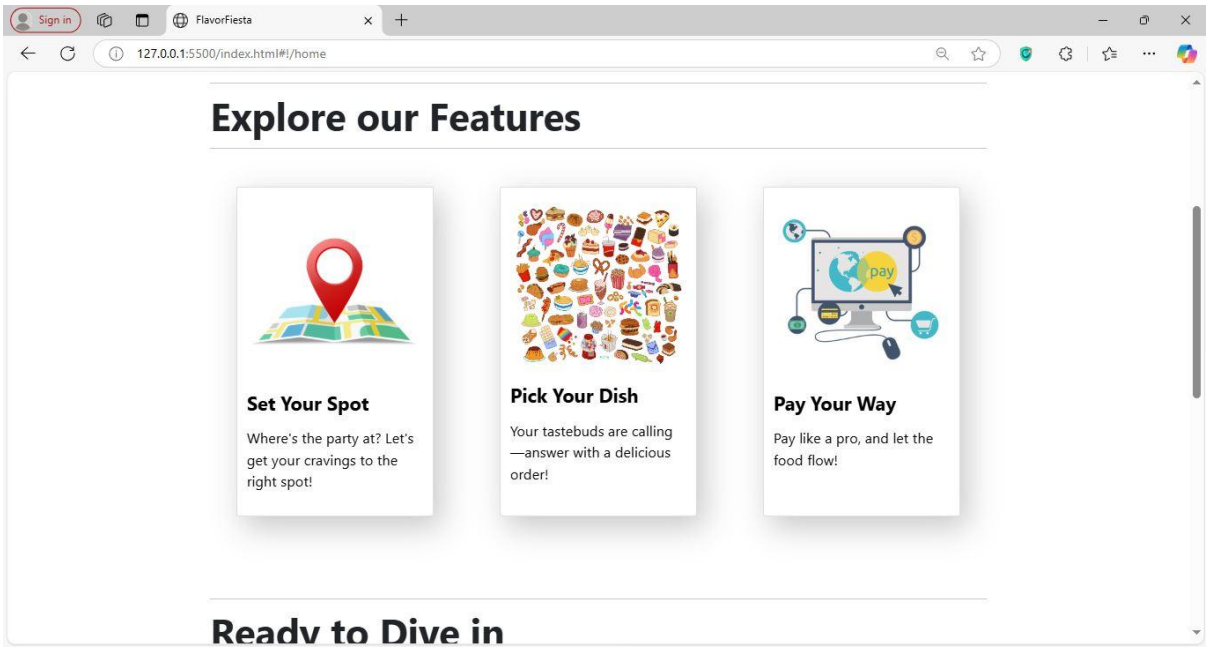


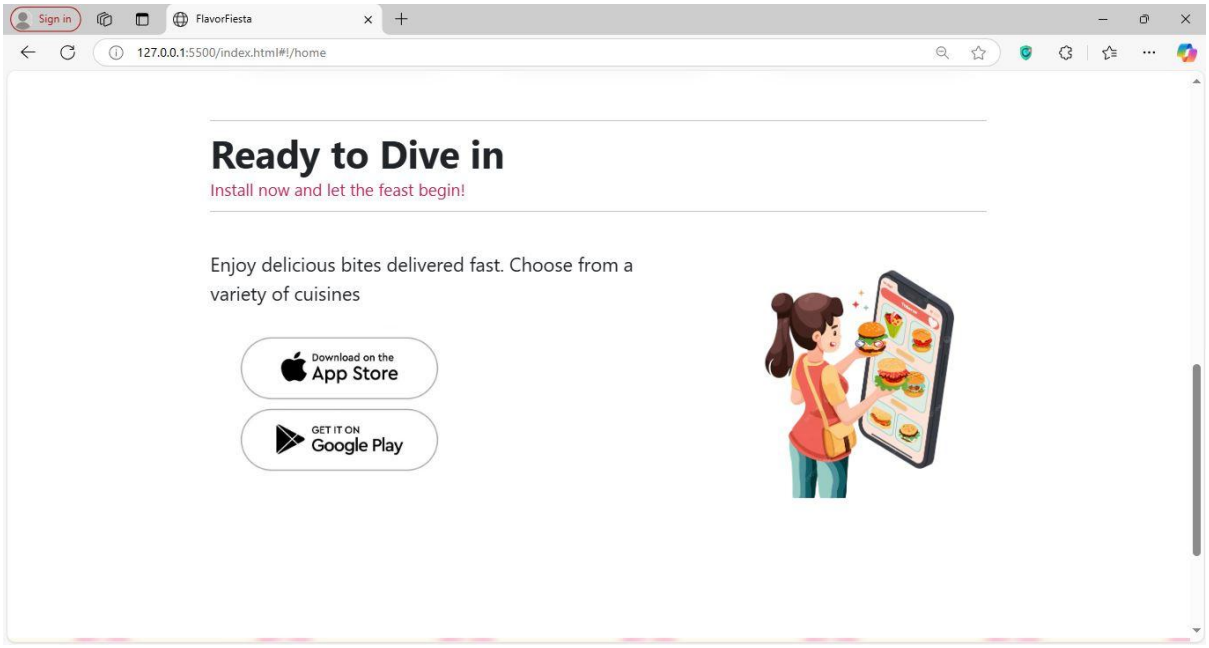
Development Process

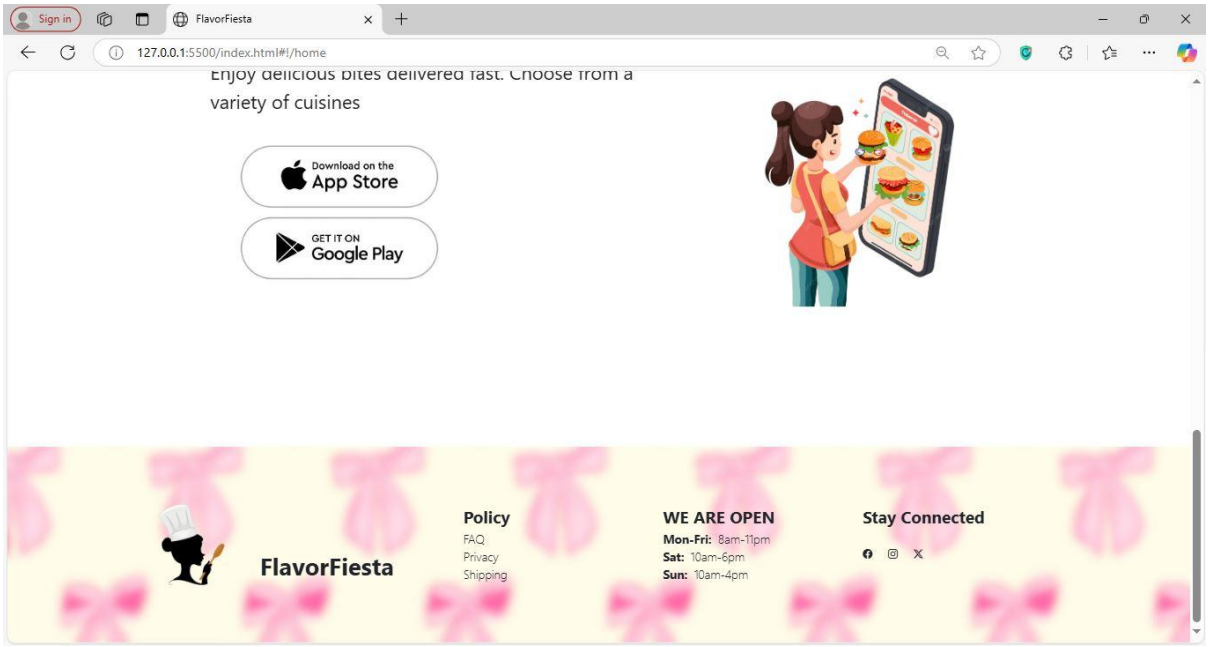
- **Front-end Development**: The front-end development process involved crafting a clean, responsive layout and adding interactive elements with JavaScript. Regular testing ensured functionality and design consistency.

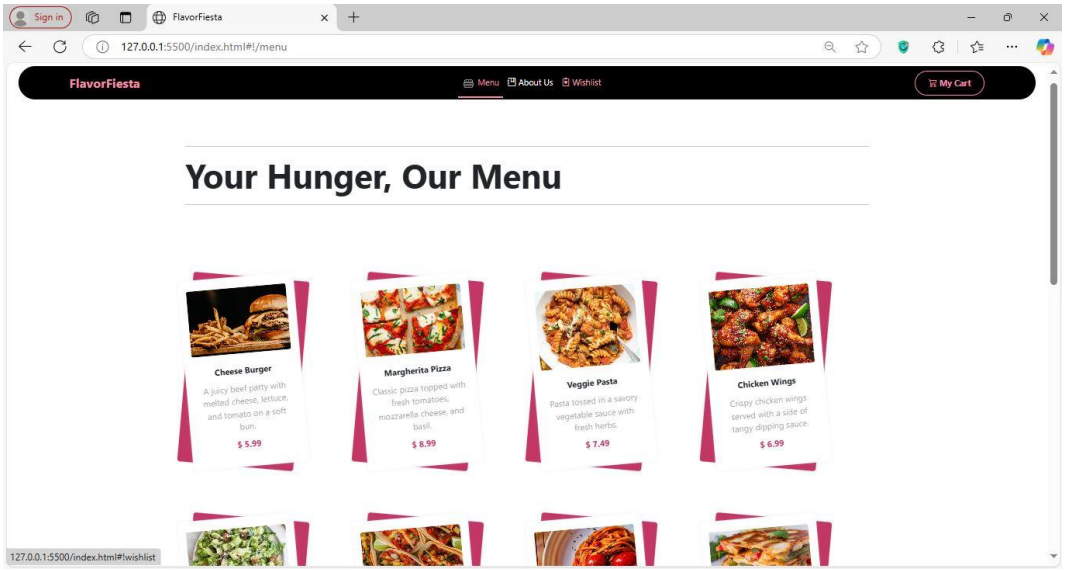
- **Back-end Development**: The back-end was developed using Spring Boot to handle data requests, manage user sessions, and process orders efficiently.
- **Website Features**: The final website integrates all components, offering a smooth user experience from browsing to checkout.

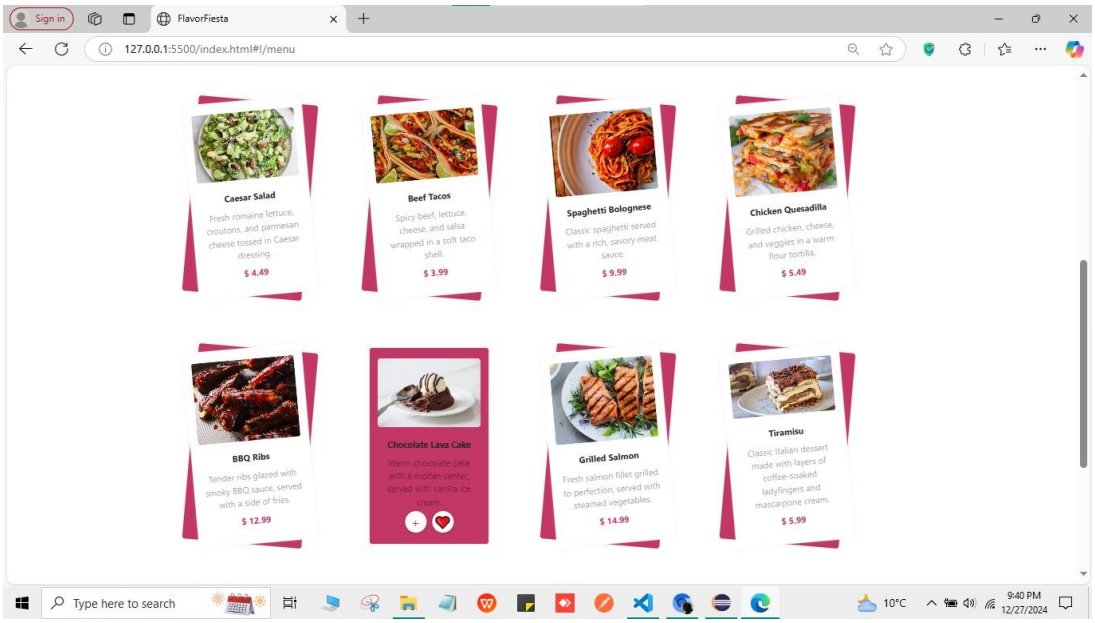




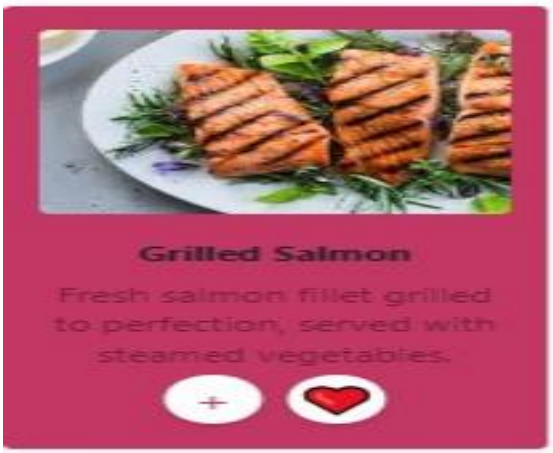

Sign in
FlavorFiesta
127.0.0.1:5500/index.html#!/home
Ready to Dive in
Install now and let the feast begin!
Enjoy delicious bites delivered fast. Choose from a variety of cuisines
Download on the App Store
GET IT ON Google Play

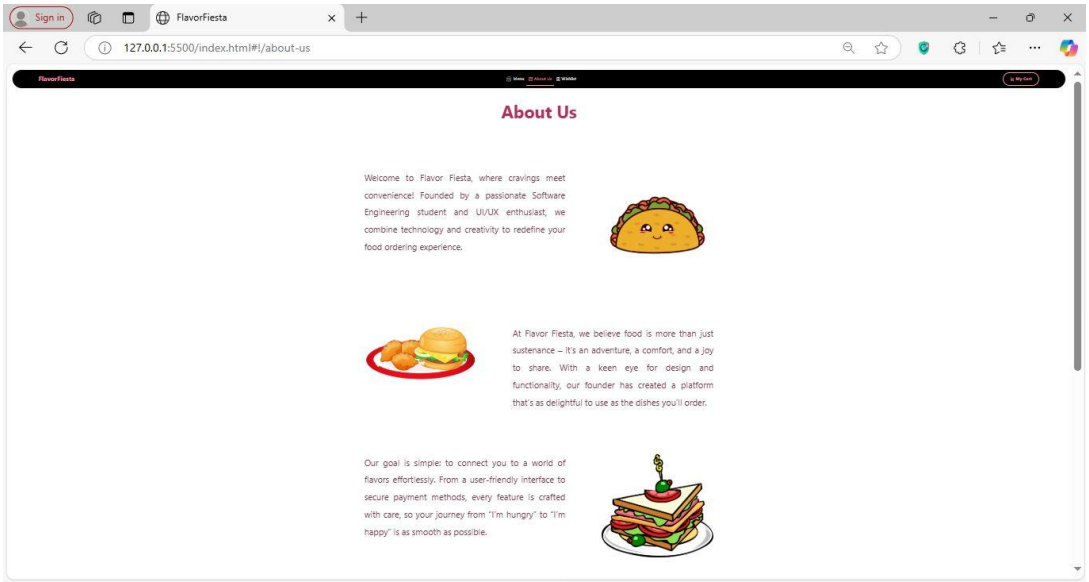

Sign in
FlavorFiesta
127.0.0.1:5500/index.html#!/home
variety of cuisines
Download on the App Store
GET IT ON Google Play
FlavorFiesta
Policy
FAQ
Privacy
Shipping
WE ARE OPEN
Mon-Fri: 8am-11pm
Sat: 10am-6pm
Sun: 10am-4pm
Stay Connected

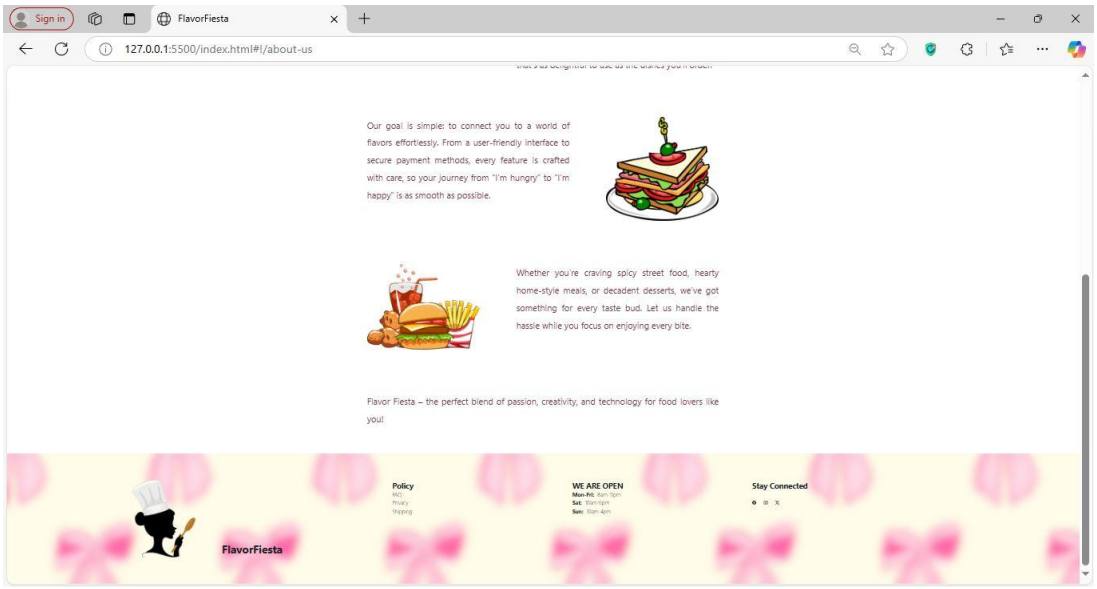


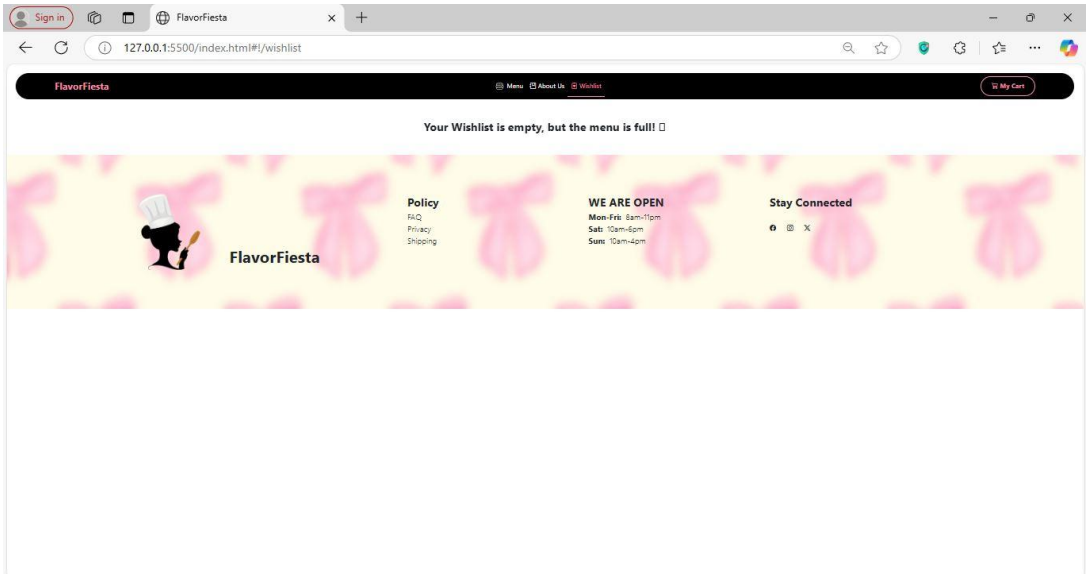


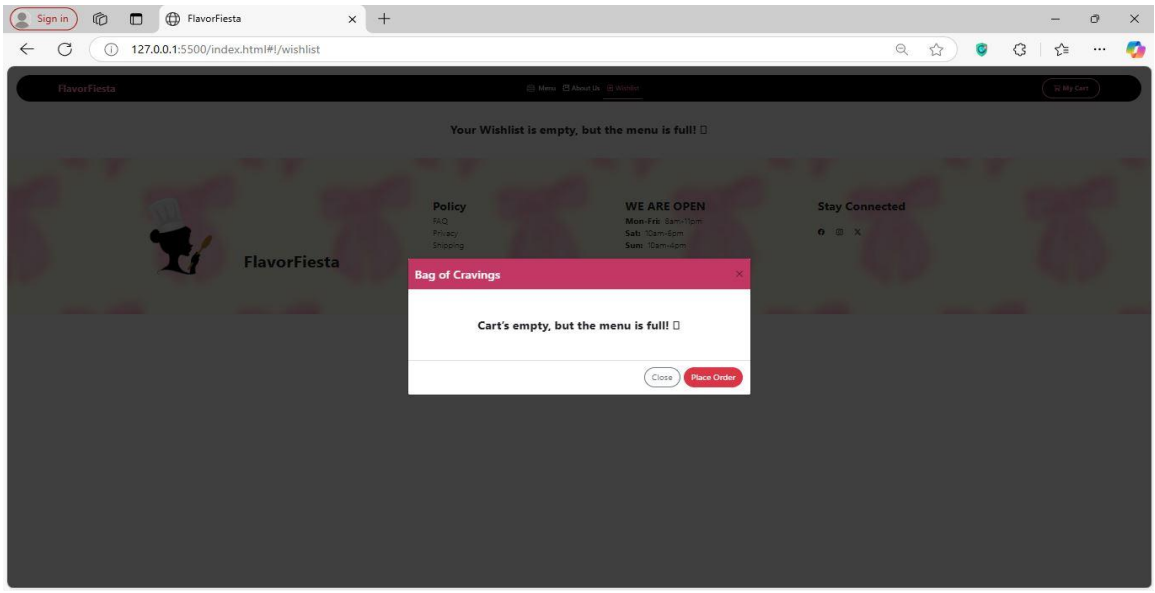
Heart icon is for add to wishlist and + button is for addint item to cart

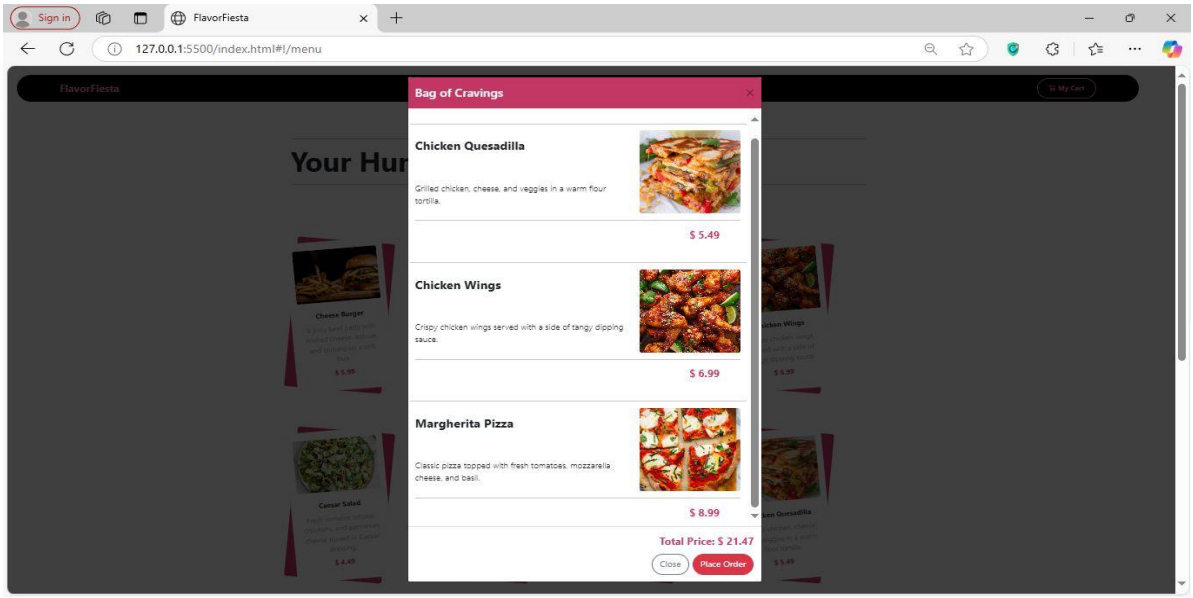


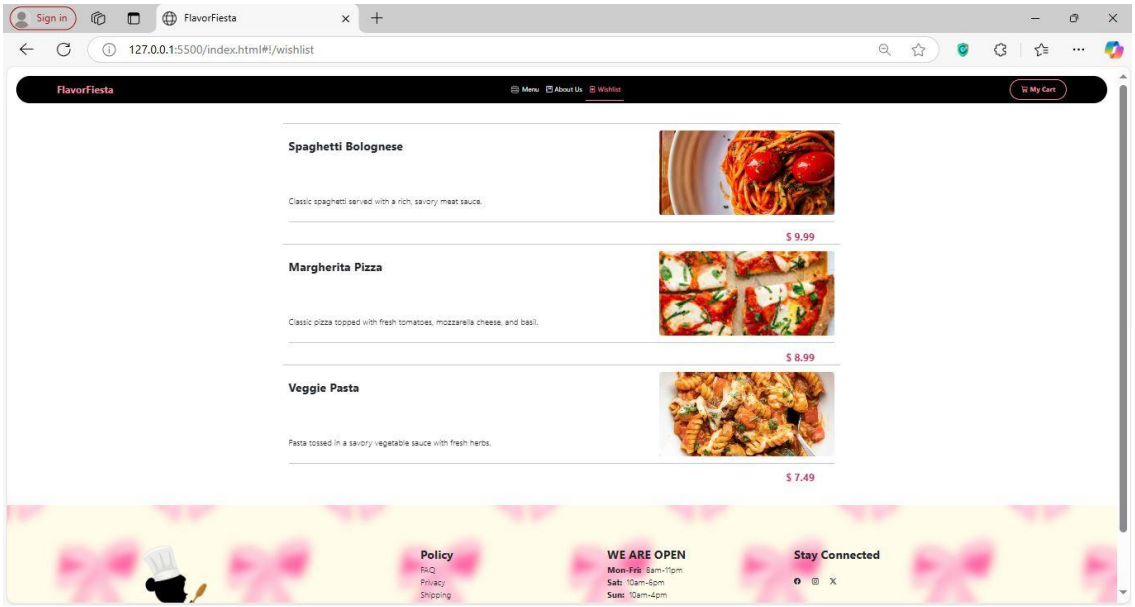

Sign in
FlavorFiesta
127.0.0.1:5500/index.html#!/about-us
FlavorFiesta
Menu
About Us
Wishlist
My Cart
About Us
Welcome to Flavor Fiesta, where cravings meet convenience! Founded by a passionate Software Engineering student and UI/UX enthusiast, we combine technology and creativity to redefine your food ordering experience.
At Flavor Fiesta, we believe food is more than just sustenance – it's an adventure, a comfort, and a joy to share. With a keen eye for design and functionality, our founder has created a platform that's as delightful to use as the dishes you'll order.
Our goal is simple: to connect you to a world of flavors effortlessly. From a user-friendly interface to secure payment methods, every feature is crafted with care, so your journey from "I'm hungry" to "I'm happy" is as smooth as possible.


Sign in
FlavorFiesta
127.0.0.1:5500/index.html#!/about-us
Our goal is simple: to connect you to a world of flavors effortlessly. From a user-friendly interface to secure payment methods, every feature is crafted with care, so your journey from "I'm hungry" to "I'm happy" is as smooth as possible.
Whether you're craving spicy street food, hearty home-style meals, or decadent desserts, we've got something for every taste bud. Let us handle the hassle while you focus on enjoying every bite.
Flavor Fiesta – the perfect blend of passion, creativity, and technology for food lovers like you!
FlavorFiesta
Policy
FAQ
Privacy
Shipping
WE ARE OPEN
Stay Connected


Sign in
FlavorFiesta
127.0.0.1:5500/index.html#!/wishlist
FlavorFiesta
Menu
About Us
Wishlist
My Cart
Your Wishlist is empty, but the menu is full!
FlavorFiesta
Policy
FAQ
Privacy
Shipping
WE ARE OPEN
Mon-Fri: 8am-11pm
Sat: 10am-6pm
Sun: 10am-4pm
Stay Connected


Sign in
FlavorFiesta
127.0.0.1:5500/index.html#!/wishlist
FlavorFiesta
Your Wishlist is empty, but the menu is full!
Policy
FAQ
Privacy
Shipping
WE ARE OPEN
Mon-Fri: 8am-11pm
Sat: 10am-6pm
Sun: 10am-4pm
Stay Connected
FlavorFiesta
Bag of Cravings
Cart's empty, but the menu is full!
Close
Place Order


Sign in
FlavorFiesta
127.0.0.1:5500/index.html#!/menu
FlavorFiesta
Bag of Cravings
Chicken Quesadilla
Grilled chicken, cheese, and veggies in a warm flour tortilla.
$ 5.49
Chicken Wings
Crispy chicken wings served with a side of tangy dipping sauce.
$ 6.99
Margherita Pizza
Classic pizza topped with fresh tomatoes, mozzarella cheese, and basil.
$ 8.99
Total Price: $ 21.47
Close
Place Order



Challenges and Solutions

1. **Integration Issues**:

    - **Challenge**: Ensuring smooth data exchange between the front-end and back-end.
    - **Solution**: Used well-documented REST APIs for seamless communication.

2. **Responsive Design**:

    - **Challenge**: Adapting the layout for various devices.
    - **Solution**: Applied CSS media queries and rigorous testing on multiple screen sizes.

Conclusion

Flavor Fiesta represents the successful integration of front-end and back-end technologies to deliver a comprehensive food ordering solution. The project showcases skills in modern web development, including responsive design, API integration, and user experience optimization. The screenshots illustrate each stage of development and highlight the website’s core functionalities.