Technical Career Education Private Limited

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Full Stack Development Skill Lab Course

PROJECT REPORT

2024 – 25

Project Title: 'FOODWALLAH'

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Project Overview

Problem Statement	Design and develop a frontend, responsive, and user-friendly website for a food business.	
Solution Proposed *(Video Link)*	https://drive.google.com/file/d/1wvU2pG3ReZ5I0rocMJXaVCBrlsI8tZcX/view?usp=drive_link	
Link to the final Challenge presentation	https://www.canva.com/design/DAGZ7IUhB7U/uwZsr1jjv12wXsPLQx-HjA/edit?utm_content=DAGZ7IUhB7U&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton	
Link to photos/ videos drive	https://drive.google.com/drive/folders/1LyJwwu5p-MZvUa8iiHeRWYRG0nmHHO8P	
Class/Section	3B - AIML	
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1.Introduction

Our project focused exclusively on front-end development to address a significant real-world challenge. Front-end development plays a crucial role in creating user interfaces that are visually appealing, intuitive, and responsive, ensuring a seamless user experience. The challenge we tackled required designing a platform that simplifies complex processes while prioritizing user engagement and accessibility. By leveraging HTML, CSS, and JavaScript, we aimed to build an efficient and user-friendly solution that meets these needs effectively.

To achieve this, we utilized front-end technologies to develop a responsive application that delivers a smooth and engaging user experience. By focusing on the design and functionality of the interface, we ensured the platform is easy to navigate and satisfies the requirements of its intended users. This approach emphasized simplicity, usability, and adaptability, allowing us to create a system that performs reliably across various devices.

Our primary objective was to address the challenge with a high-quality solution that combines intuitive design and dependable functionality. By delivering a visually appealing and responsive application, we hope to provide a platform that not only resolves the identified issue but also enhances the overall user experience.

Through this project, we aim to showcase the potential of front-end development in solving practical problems while strengthening our skills in design, problem-solving, and innovation. This project represents our dedication to creating impactful and efficient solutions tailored to real-world needs.

2. Problem Statement

The goal of this project is to design and develop a **responsive, user-friendly website** for a food business. The platform should allow customers to easily browse the menu, place and customize orders, and provide feedback. For administrators, the system should offer the ability to manage the menu, handle orders, and perform CRUD (Create, Read, Update, Delete) operations effectively, all using **HTML, CSS, and JavaScript**.

The **food website** aims to streamline food business operations by simplifying menu browsing, order placement, and real-time updates. It enhances the customer experience while enabling efficient menu management and CRUD functionalities using modern front-end technologies.

Challenges Addressed:

In this project, we aim to create a responsive and user-friendly front-end website using **HTML, CSS, and JavaScript**. The platform will enable customers to browse the menu, place and customize orders, and provide feedback. Administrators will be able to manage the menu and handle orders effectively.

However, several common issues faced by food business websites need to be addressed:

1. **Slow Website Performance:** Slow loading times can frustrate users and lead to higher bounce rates. By optimizing performance through efficient coding and minimizing unnecessary resources, we aim to enhance speed and usability.

2. **Outdated Design:** Many websites look unprofessional with outdated designs, which impacts trust and user engagement. Our approach emphasizes a modern and visually appealing design to boost user confidence.

3. **Inconsistent Inventory Updates:** Customers may attempt to order unavailable items if the inventory isn't updated in real-time. Our platform will feature automatic inventory updates to ensure that customers only see available items.

4. **Limited Customization Features:** Customers expect the ability to personalize their orders. We aim to provide robust customization options, allowing users to tailor their orders to their preferences.

5. **Lack of Personalization Features:** Customers are more engaged when a website offers a personalized experience. We plan to incorporate features that tailor the user experience based on past orders and preferences.

3. Solution

3.1 System requirements for the project

For this project, we utilized **HTML, CSS, and JavaScript** to build a dynamic and responsive website. HTML formed the structure of the platform, enabling us to create a well-organized layout. **CSS** was extensively used for styling, helping us achieve a visually appealing design that adapts smoothly to various screen sizes and devices. **JavaScript** was implemented for interactivity, including form validation, ensuring accurate user inputs and providing instant feedback. This approach improved the platform's reliability and user experience. Together, these technologies enabled us to develop a highly functional and user-friendly website that meets the project's goals.

3.2 Flowchart of the project

1. Home Page

The home page serves as the gateway to the website, designed to captivate users with visually appealing banners, featured items, and promotions. This page ensures easy navigation and creates a lasting first impression.

2. Menu Page

A comprehensive menu page displays food items organized into categories. It includes powerful filtering options for a tailored user experience. The addition of hover effects enhances interactivity, making menu browsing intuitive and visually engaging

3. Order Customization

The platform offers real-time order customization, allowing customers to personalize their orders with ease. Prices update dynamically based on selected options, ensuring transparency. Drag-and-drop cart functionality simplifies the ordering process, making it more engaging and user-friendly

4. Contact & Feedback

To enhance communication, the website includes a validated contact form where customers can submit inquiries or feedback. Additionally, a star-based feedback system allows users to rate their experience, helping the business improve its offerings

5. Responsive Design

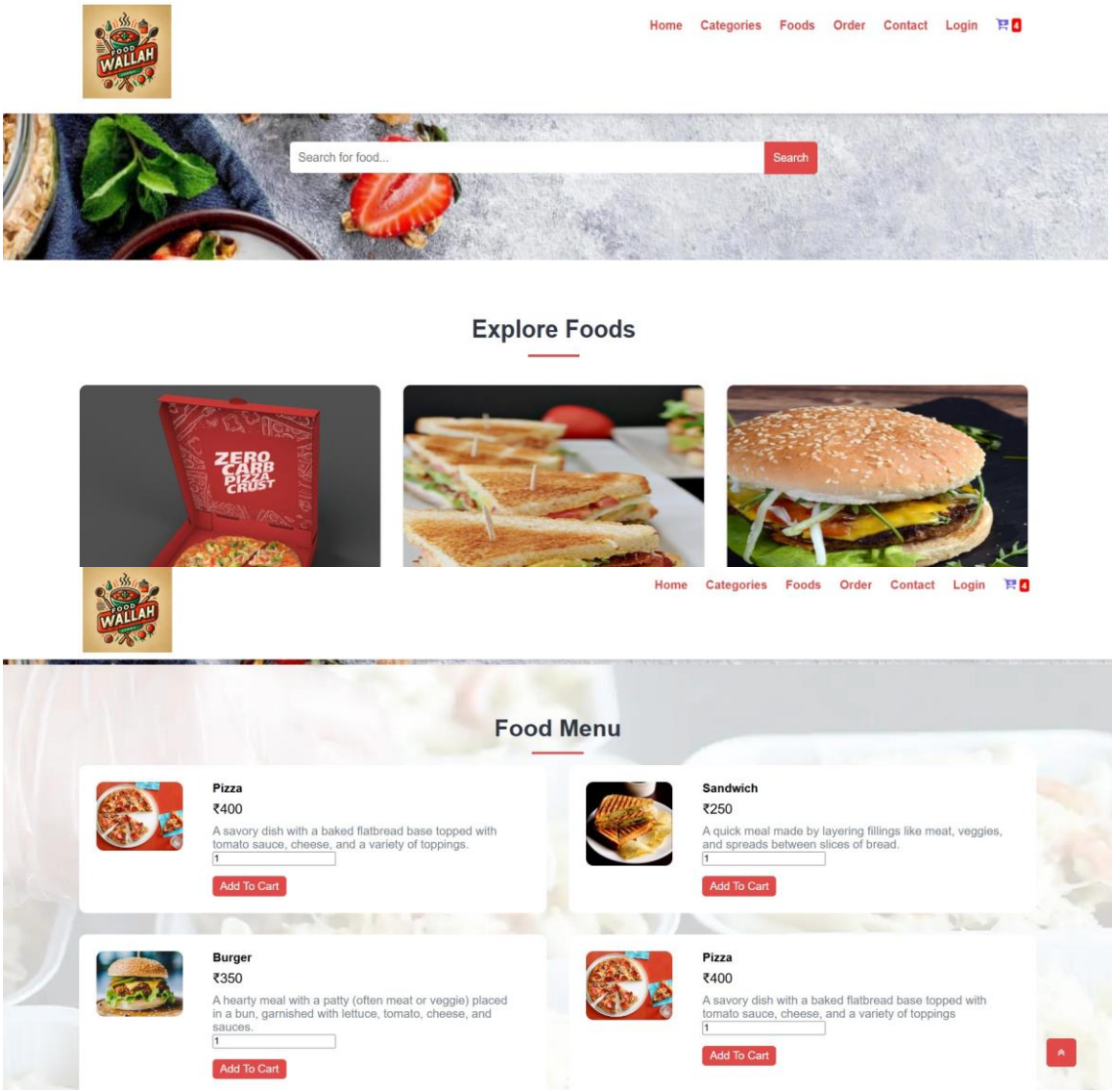
The website is built with a responsive design approach to ensure seamless compatibility across devices, including desktops, tablets, and smartphones. This guarantees accessibility for users on various platforms

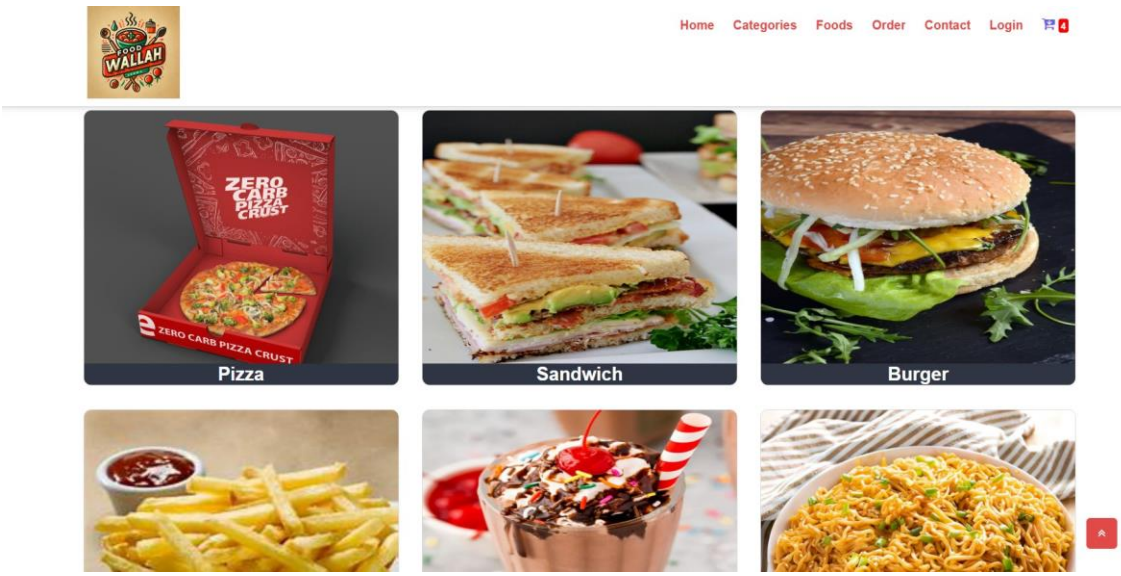
6. Advanced Features

Saved Cart State: Users can resume their shopping session without losing progress, providing a hassle-free experience.

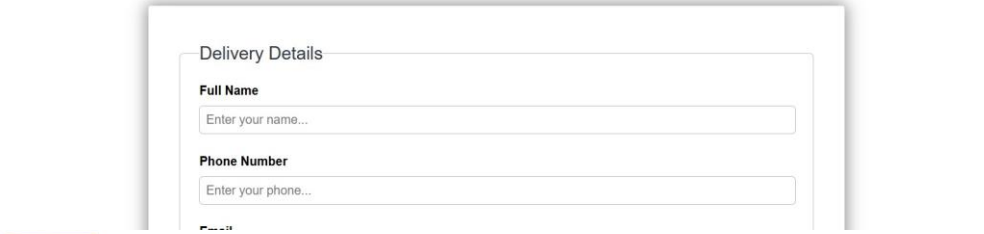
Real-Time Updates: Changes in orders or menu items reflect immediately, ensuring up-to-date information for customers.

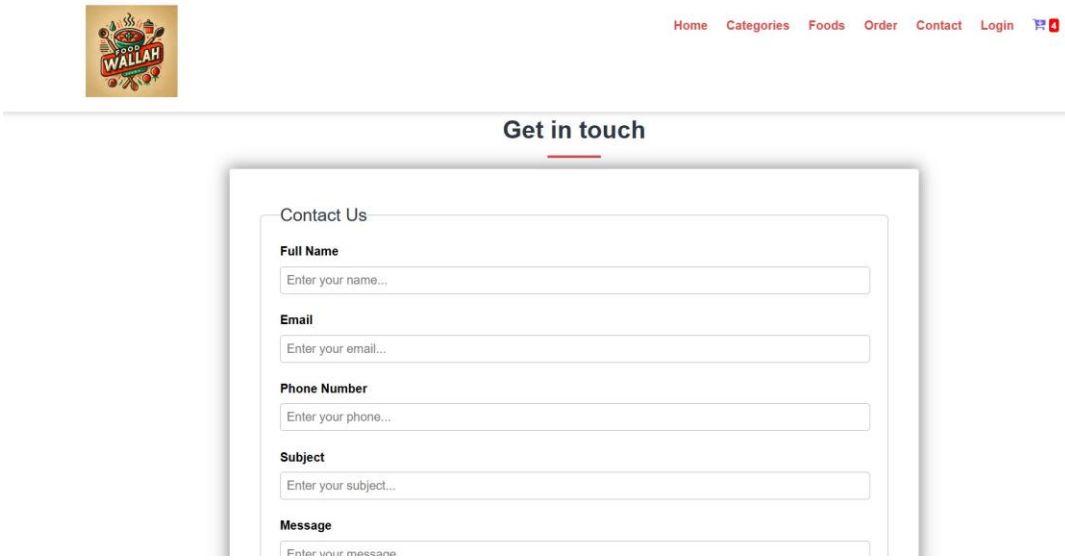
3.3 Frontend

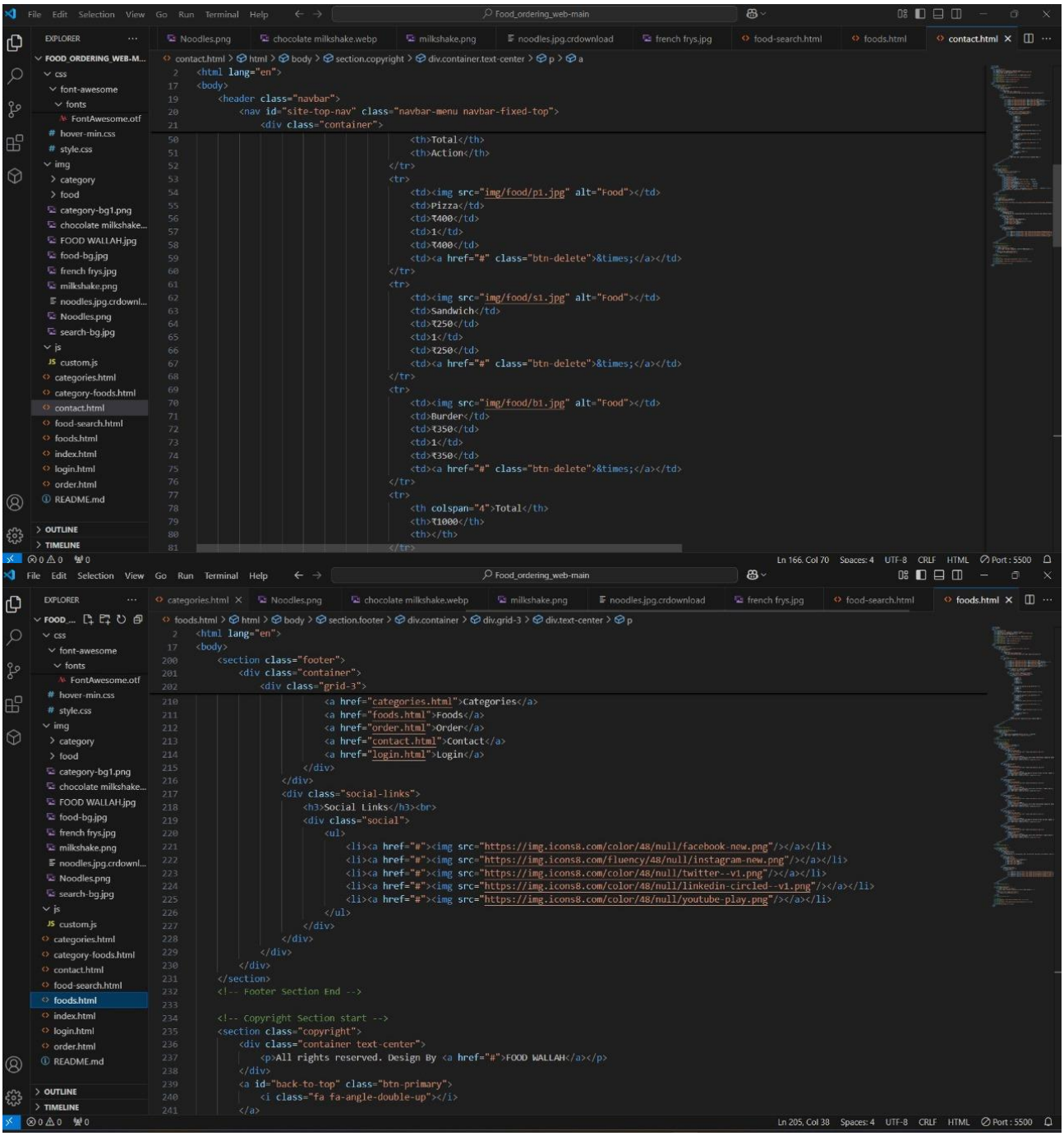




S.N.	Food	Name	Price	Qty	Total	Action
1		Pizza	₹400	1	₹400	
2		Sandwich	₹250	1	₹250	
3		Burder	₹350	1	₹350	
		Total			**₹1000**	







Frontend Code can be found here-> https://github.com/Manvith1319/Skill-lab-report.git

4. Conclusion

The project successfully meets the objective of designing and developing a responsive, interactive, and user-friendly website for a food business using **HTML, CSS, and JavaScript**. With features like categorized menus, real-time order customization, and a feedback system, the website ensures an engaging and seamless user experience. Administrators benefit from efficient menu management and streamlined operations, improving overall productivity and customer satisfaction.

Additionally, the responsive design guarantees compatibility across various devices, making the platform accessible to a wider audience. Advanced features like a saved cart state further highlight the focus on user engagement and convenience.

Looking ahead, the platform offers significant growth opportunities by integrating features such as user accounts for repeat orders, secure payment gateways, real-time order tracking, and personalized recommendations. These enhancements will elevate the platform to a comprehensive solution for modern food business management, benefiting both customers and administrators. This project lays a solid foundation for driving innovation and success in the competitive food service industry.

References

https://www.w3schools.com/html/default.asp

https://css-tricks.com/