

Technical Career Education Private Limited

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Full Stack Development Skill Lab Course

PROJECT REPORT

2024 – 25

Project Title: "FOOD WALLAH"

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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/1wvU2pG3ReZ5lOrocMJXaVCBrIsI8tZcX/view?usp=drivesdk	
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	
Team Name	TEAM BLAZE	
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1.Introduction

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

To achieve this, we utilized front-end tools and techniques 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

“Design and develop a frontend, responsive, and user-friendly website for a food business. The platform should allow customers to browse the menu, place and customize orders, and provide feedback. Administrators should be able to manage the menu, handle orders, and can perform CRUD operations effectively using React.JS”

The Food website aims to streamline food business operations by simplifying menu browsing, order placement, and real-time updates. It enhances customer experience while enabling efficient menu management and CRUD functionalities using modern frontend technologies like React.js.

In this project, we aim to design and develop a responsive, user-friendly front-end website for a food business using React.js. The platform will allow customers to browse the menu, place and customize orders, and provide feedback, while administrators will be able to manage the menu and handle orders effectively. However, there are several common issues that many food business websites face, which we aim to address in this project. Slow website performance is a major concern, as it can frustrate users and lead to high bounce rates.

Outdated design makes websites look unprofessional, affecting trust and user engagement. Inconsistent inventory updates are another problem, as customers may attempt to order items that are unavailable. Limited customization features can hinder the overall user experience, as customers expect to personalize their orders. Poor SEO practices make it harder for customers to discover the website, limiting its reach and visibility. A lack of personalization features also reduces user engagement, as users often prefer customized experiences. Lastly, poor security measures can expose both customers and administrators to risks, damaging the website's credibility and security. Addressing these issues is crucial to creating a seamless, secure, and engaging platform that meets the needs of both customers and administrators.

3. Solution

3.1 System requirements for the project For this project, we utilized React.js as the front-end framework, which allowed us to build dynamic and reusable UI components, ensuring a seamless and interactive user experience. React.js provided the flexibility and efficiency needed to create a highly functional interface tailored to user needs. CSS was used extensively for styling, enabling us to achieve a visually appealing and responsive design adaptable to various screen sizes and devices. To manage the application state effectively, we employed the Context API, which streamlined data handling and ensured smooth communication across different components. This approach significantly improved performance and reduced complexity in managing shared states. Additionally, JavaScript was implemented for form validation, ensuring that all user inputs were accurate and free of errors. This not only enhanced the overall reliability of the platform but also contributed to a better user experience by providing immediate feedback for corrections. Together, these technologies allowed us to develop a robust, responsive, and user-friendly website that aligns with 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

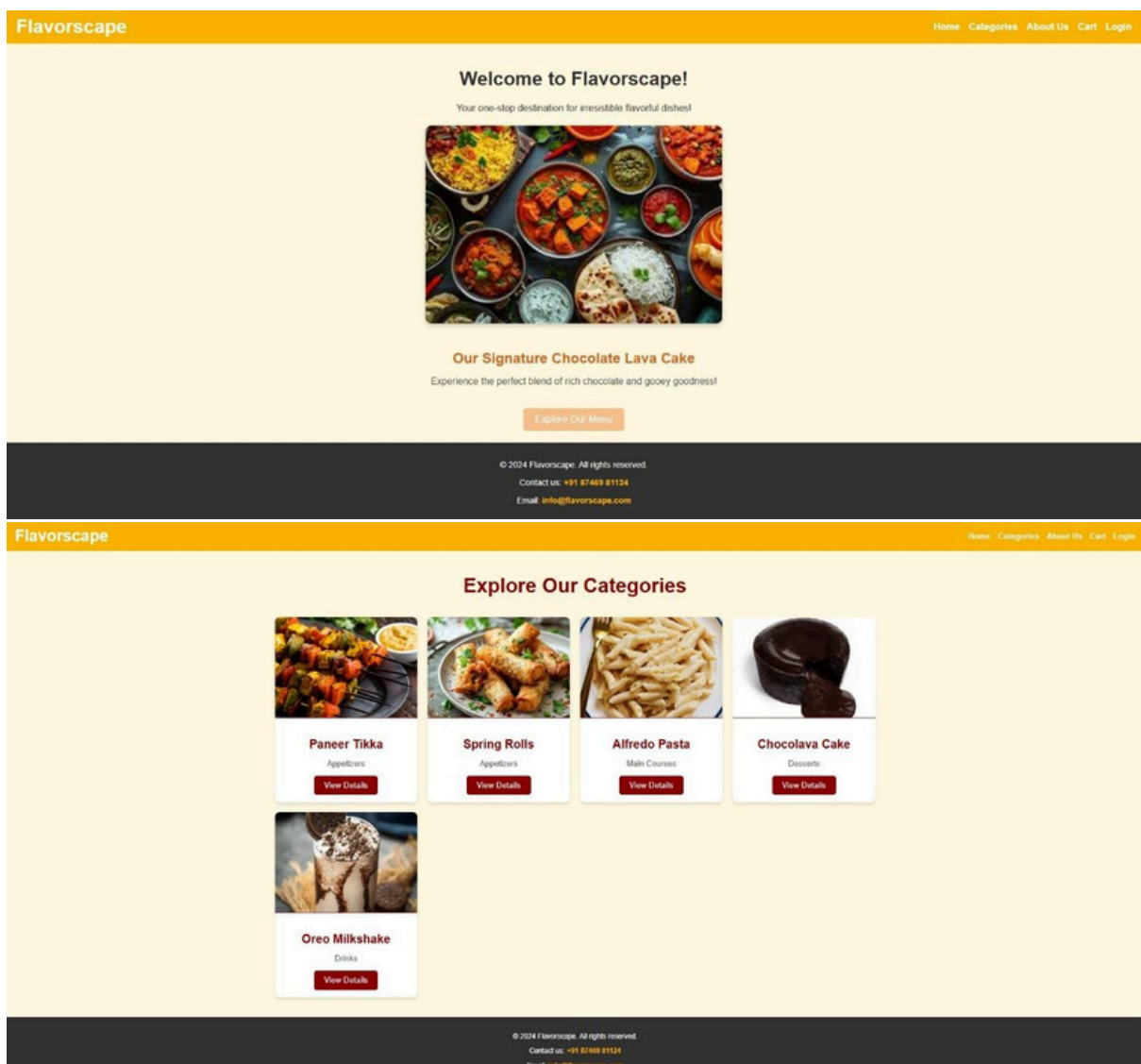
The website is built with a responsive design approach to ensure seamless compatibility across devices, including desktops, tablets, and smartphones. This guarantees accessibility for users on various platforms

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




```

src > # App.js > ...
1 // src/App.js
2 import React from 'react';
3 import { BrowserRouter as Router, Route, Routes } from 'react-router-dom';
4 import { CartProvider } from './CartContext';
5 import Header from './components/Header';
6 import Footer from './components/Footer';
7 import Home from './pages/Home';
8 import Categories from './pages/Categories';
9 import FoodDetails from './pages/FoodDetails';
10 import Cart from './pages/Cart';
11 import About from './pages/About';
12 import Login from './pages/Login';
13
14 const App = () => {
15   return (
16     <CartProvider>
17       <Router>
18         <Header />
19         <main>
20           <Routes>
21             <Route path="/" element={<Home />} />
22             <Route path="/categories" element={<Categories />} />
23             <Route path="/cake/:id" element={<FoodDetails />} />
24             <Route path="/cart" element={<Cart />} />
25             <Route path="/about" element={<About />} />
26             <Route path="/login" element={<Login />} />
27           </Routes>
28         </main>
29       </Router>
30     </CartProvider>
31   );
32 }
33
34 export default App;
35
36

```

```

src > # App.css > ...
1 /* src/App.css */
2 body {
3   margin: 0;
4   font-family: 'Arial', sans-serif;
5   background-color: #f9f9f9;
6   color: #333;
7 }
8
9 header, footer {
10  background-color: #f5f5f5;
11  color: white;
12  padding: 15px;
13  text-align: center;
14 }
15
16 main {
17  padding: 20px;
18 }
19
20 button {
21  padding: 10px 20px;
22  background-color: #007bff;
23  color: white;
24  border: none;
25  cursor: pointer;
26  border-radius: 5px;
27 }
28
29 button: hover {
30  background-color: #0056b3;
31 }
32
33 footer .socials a {
34  margin: 0 10px;
35  text-decoration: none;
36  color: #fff;
37 }
38

```

Frontend Code can be found here-> <https://github.com/Nova-Nexus/Skill-Lab-Milestone-1.git>

4. Conclusion

The project successfully fulfils the objective of designing and developing a responsive, interactive, and user-friendly website for a food business using ReactJS. 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, enhancing overall productivity and customer satisfaction.

Moreover, the responsive design ensures compatibility across various devices, providing accessibility to a broader audience. The inclusion of advanced features like a saved cart state further demonstrates the project's focus on user engagement and convenience.

Looking to the future, the platform presents significant opportunities for growth by integrating features such as user accounts for repeat orders, secure payment gateways, real-time order tracking, and personalized recommendations. These enhancements would elevate the platform to a comprehensive solution for modern food business management, reinforcing its value to both customers and administrators. This project serves as a robust foundation for driving innovation and success in the competitive food service industry.

References

<https://www.dhiwise.com/templates/>

<https://react.dev/reference/react>

<https://github.com/Nova-Nexus/Skill-Lab-Milestone-1.git>