SOFTWARE REQUIREMENTS SPECIFICATION

for

Food Ordering Website(Thapar Eats)

Version 1.0

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1 Introduction

1.1 Purpose

The purpose of this document is to define the software requirements for the development of the Online Food Ordering website, covering HTML, CSS and JavaScript. This project aims to create a modern and responsive website that enhances the food ordering experience for users. It will serve as the user interface for customers to access a wide range of restaurants, explore menus, place orders, track deliveries, and engage with additional information such as FAQs, contact details, and company information.

1.2 Scope

The scope of this project encompasses the frontend development of an online food ordering platform. This platform will allow users to interact with a variety of features, including:

- Menu: Users can browse through an extensive list of food items, organized by categories, and view detailed descriptions for each item.
- Order: Users have the capability to create and customize their orders, adding items to a shopping cart, specifying quantities, and providing special instructions.
- Restaurants: A comprehensive list of partner restaurants is displayed, each with its menu and relevant details.
- Track Order: Users can easily track the status and progress of their orders in real-time.
- Cart: A dedicated cart section enables users to review and finalize their orders before checkout.
- FAQ: Frequently Asked Questions are available to address common queries and concerns.
- Contact Us: Users can reach out for support, inquiries, or feedback through a contact form.
- About: Information about the company, its mission, and values is provided.

1.3 Overview

The Online Food Ordering Frontend project aims to revolutionize the way customers interact with food delivery services. This frontend development will deliver a seamless and enjoyable food ordering experience in a world increasingly reliant on digital platforms.

The project primarily focuses on providing an intuitive, responsive, and visually appealing user interface that enhances user engagement and satisfaction. By incorporating modern web technologies such as HTML, CSS, and JavaScript, the website will adapt to various devices, ensuring a consistent and optimized experience for both desktop and mobile users.

The Online Food Ordering Frontend will be designed with the end-user in mind. It will empower customers to explore a vast selection of food items, customize their orders to meet their preferences, and track the progress of their deliveries in real time. Additionally, features like the shopping cart, FAQs, contact forms, and an About section will provide comprehensive information and support options.

The following sections of this document will provide a detailed breakdown of the product description, software requirements, user interfaces, non-functional requirements, schedule, team roles, and any appendices necessary for a successful project implementation.

2 Overall Description

2.1 Product Perspective

The Online Food Ordering Frontend is a crucial component of a comprehensive food ordering system. It serves as the user-facing interface that connects customers with a network of restaurants and facilitates the food ordering process. The frontend is designed to integrate seamlessly with the backend, which handles order processing, payment transactions, and restaurant management.

2.2 Product Functions

The Online Food Ordering Frontend offers a range of features designed to simplify the food ordering process, enhance user experience, and provide comprehensive information to customers. These features include:

Menu:

- Users can explore a variety of food items categorized by type (e.g., appetizers, main courses, desserts).
- Detailed item descriptions, including ingredients and pricing, are available.
- Filtering and search functionalities enable users to quickly find specific dishes.

Order:

- Users can select items from the menu and add them to their shopping cart.
- The shopping cart allows users to customize their orders, specifying quantities, adding special instructions, and viewing itemized totals.
- Secure checkout with integration to a payment gateway allows users to place orders.

Restaurants:

- A list of partner restaurants is displayed, along with essential details like cuisine type, location, and opening hours.
- Users can access restaurant-specific menus and easily navigate to their preferred options.

Track Order:

- Users can enter order details (e.g., order ID) to track the status and expected delivery time of their orders.
- Real-time updates on order preparation, dispatch, and delivery are provided.

Cart:

- The cart section provides a summary of items added for review and modification before finalizing the order.
- Users can proceed to checkout or continue shopping.

FAQ:
Frequently Asked Questions (FAQs) address common queries related to the ordering process, policies, and troubleshooting. Contact Us:

- Users can reach out to customer support or provide feedback through a contact form.
- Contact information for customer service is also available.

About:
An "About Us" section provides insights into the company, its mission, and its commitment to delivering quality service.

2.3 Operating Environment

The Online Food Ordering Frontend is designed to operate within a specific environment that ensures compatibility, performance, and security. Key aspects of the operating environment include:

- Web Browsers: The frontend is compatible with modern web browsers, including but not limited to Google Chrome, Mozilla Firefox, Apple Safari, and Microsoft Edge. Compatibility with older browsers may be limited.
- Mobile Devices: The website is responsive and accessible on various mobile devices, such as smartphones and tablets, running iOS and Android operating systems.
- Internet Connection: Users require a stable internet connection to access the frontend and place orders.
- Screen Resolutions: The frontend is optimized for various screen resolutions, ensuring a consistent and visually appealing experience across devices.
- Security Protocols: The website employs industry-standard security protocols to protect user data, including SSL encryption for secure data transmission.

- Third-Party Integrations: Integration with third-party services includes payment gateways for secure payment processing and user authentication systems for account management.
- Database System: The frontend interacts with a database system (e.g., MySQL, PostgreSQL) to retrieve and display menu items, restaurant information, and user data.
- Development Stack: The frontend is developed using HTML, CSS, and JavaScript technologies, ensuring cross-browser compatibility and performance optimization.

2.4 User Classes and Characteristics

1. Customers: These are individuals who visit the website to browse menus, place orders, and track deliveries. Customers may create accounts for a more personalized experience but can also browse as guests.
2. Administrators: Internal staff responsible for managing and updating restaurant listings, menu items, and resolving customer inquiries. Administrators have access to the backend system for content management.

- customers vary in their familiarity with online food ordering systems, with some being regular users and others new to the platform.
- Administrators are typically company employees with the necessary permissions and training to manage the website's content and assist customers.

3 Software Requirements

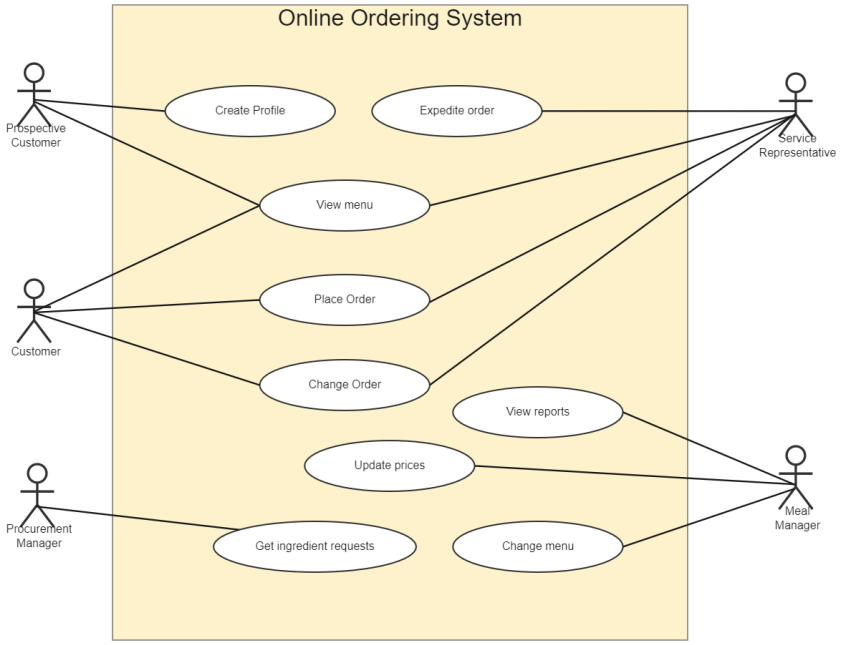
3.1 Functional Requirements

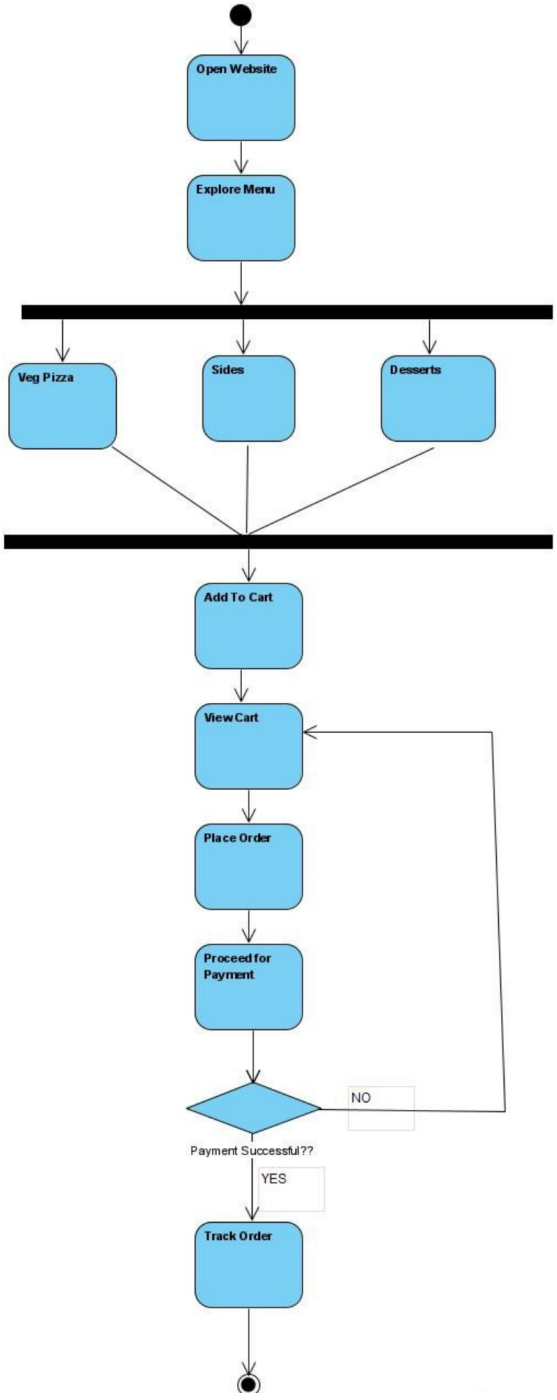
- Menu: Users can browse, search, and view food items with descriptions.
- Order: Users add items to a cart, customize orders, and check out securely.
- Restaurants: Listings with details link to restaurant-specific menus.
- Track Order: Users can monitor real-time order status.
- Cart: Clear cart summary, modification, and checkout.
- FAQ: Accessible FAQs for common inquiries.
- Contact Us: User-friendly contact form.
- About: Company mission and values.

3.2. User Interfaces

- Menu: Intuitive item navigation.
- Order: Streamlined order placement.
- Restaurants: Easy access to restaurant details.
- Track Order: Input order details for real-time updates.
- Cart: Clear cart management and checkout.
- FAQ: User-friendly FAQ presentation.
- Contact Us: Contact form for inquiries.
- About: Visually appealing company info.

3.3. UML Diagrams UML Use Case and Activity diagrams as needed.





UML Activity

3.4. Additional Functional Requirements Any project-specific functional requirements.

4 Other Nonfunctional Requirements

4.1 Non-Functional Requirements

4.1. Performance Requirements

- Fast page loading (within 3 seconds).
- Handling up to 1000 concurrent users during peak hours.

4.2. Security Requirements

- User data encryption (SSL).
- User authentication and authorization.

4.3. Usability Requirements

- Consistent and intuitive UI.
- Usability testing with real users.

4.4. Responsiveness Requirements

- Adaptation to various screen sizes.
- Functional and user-friendly navigation on smaller screens.

4.5. Other Non-Functional Requirements Additional non-functional requirements (e.g., accessibility, reliability).

5 Schedule

- Phase 1: Requirements Analysis
  - Refine functional and non-functional requirements.
  - Finalize UI design, wireframes, and mockups.
  - Identify external dependencies and constraints.
- Phase 2: Design and Prototyping
  - Develop high-fidelity design mockups.
  - Create interactive prototypes.
  - Define technology stack and architecture.
  - Prepare technical specifications.
- Phase 3: Development
  - Implement frontend using HTML, CSS, and JavaScript.
  - Integrate with backend services.
  - Implement key features: menu, order placement, tracking.
  - Conduct agile development sprints.
- Phase 4: Testing and QA
  - Functional, usability, security testing.
  - Compatibility testing (browsers/devices).
  - Load and performance testing.
- Phase 5: Deployment and Launch
  - Prepare production environment.
  - Deploy frontend to production server.
  - Conduct final system checks.
  - Implement monitoring and error tracking.
- Phase 6: Post-Launch Support
  - Monitor system performance.
  - Provide user support and address feedback.
  - Implement updates and enhancements.
  - Review and apply security measures.

6 Roles and responsibilities

1. Project Manager:
   - · Role: Responsible for overall project management, planning, and coordination.
   - · Responsibilities:
   - · Develop project plans and timelines.
   - · Allocate tasks and manage resources.
   - · Monitor progress and resolve issues.
   - · Communicate with team members.
   - · Ensure the project stays on track and within scope.
2. Frontend Developer:
   - · Role: Focuses on frontend development, creating the user interface and user experience.
   - · Responsibilities:
   - · Write HTML, CSS, and JavaScript code.
   - · Implement website features and functionalities.
   - · Ensure responsiveness and cross-browser compatibility.
   - · Collaborate with team members to implement UI/UX elements.
3. UI/UX Designer:
   - · Role: Concentrates on the visual and interactive design of the frontend.
   - · Responsibilities:
   - · Create design mockups, wireframes, and prototypes.
   - · Ensure a user-friendly and visually appealing interface.
   - · Collaborate with team members to implement design elements.
   - · Conduct usability testing and gather user feedback.