"FoodiE: A Responsive Web-Based Restaurant Website for Personalized Food Order"

A Mini Project-I
Report Submitted in Partial fulfilment for the award of
Bachelor of Technology in CSE

Submitted to
**RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA
BHOPAL (M.P)**

MINOR PROJECT REPORT
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LAKSHMI NARAIN COLLEGE OF TECHNOLOGY, BHOPAL

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CERTIFICATE

This is to certify that the work embodied in this project work entitled **"FoodiE"** has been satisfactorily completed by the **Divyaraj Patidar (0103CS231159)**, **Kanishka Singh (0103CS231196)** , **Kritika Mittal (0103CS231212)** .It is a bonafide piece of work, carried out under the guidance in **Department of CSE, Lakshmi Narain College of Technology, Bhopal** for the partial fulfillment of the **Bachelor of Technology** during the academic year 2024-25.

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CHAPTER 1
PROBLEM DOMAIN DESCRIPTION

Introduction :

In the modern era of digital transformation, the restaurant industry is increasingly reliant on an effective online presence to attract and retain customers. The growing prevalence of smartphones and other mobile devices has shifted user behaviour, making responsive and dynamic web solutions a critical component of business operations. Despite this, many restaurants, particularly small and medium-sized enterprises (SMEs), continue to face challenges in establishing robust digital platforms.

The primary issues arise from **non-responsive and poorly optimized websites**, which fail to provide a seamless user experience across various devices and screen sizes. This is problematic as studies indicate that a significant portion of internet traffic originates from mobile devices. Non-responsive websites result in poor navigation, unappealing aesthetics, and limited functionality, often deterring users and adversely impacting the business's customer acquisition efforts.

Additional challenges are rooted in the **absence of essential digital features**. These shortcomings include:

- Lack of real-time online table reservation systems.
- Absence of integrated online ordering for delivery and takeaway services.
- Poorly structured or outdated menus without pricing or descriptions.
- Insufficient access to critical information, such as contact details, location maps, and operating hours.
- Limited scalability and inability to incorporate emerging technologies or trends.

These gaps hinder customer engagement and fail to meet the expectations of tech-savvy users, who prefer intuitive and feature-rich web interfaces. Furthermore, the lack of search engine optimization (SEO) in many existing systems limits visibility in search results, reducing the restaurant's ability to attract organic traffic.

Project Objective:

The proposed project aims to design and implement a **responsive and feature-rich restaurant website** to address these challenges. The website will leverage modern web development technologies and design principles to deliver a scalable, accessible, and visually engaging digital solution. Key technical objectives include:

1. **Responsive Web Design:**
   - Implementation of a fully responsive layout using HTML5, CSS3, and JavaScript frameworks (e.g., Bootstrap or Tailwind CSS).
   - Ensures cross-device compatibility, offering an optimal user experience on desktops, tablets, and smartphones.

2. **Dynamic Content and Information Architecture:**
   - Structuring menus, hours of operation, and contact details in an easily navigable format.
   - Integration of visually appealing, interactive elements to improve user engagement.

3. **Functional Integration:**
   - Development of an online table reservation system with real-time slot availability and booking confirmations.

- o Implementation of an online ordering module for delivery and takeaway services, integrated with secure payment gateways.
- o Addition of a feedback mechanism to gather user insights.

4. **Performance and Optimization:**
   - o Optimization for fast page loading speeds and reduced server response times using advanced caching and lightweight design principles.
   - o Implementation of SEO strategies to enhance search engine visibility, including schema markup, meta tags, and keyword-optimized content.

5. **Brand Alignment and Customization:**
   - o Designing the website to reflect the restaurant's unique identity, including customized color schemes, typography, and imagery.
   - o Incorporation of high-quality media assets (e.g., photos and videos) to highlight the restaurant's ambiance and offerings.

6. **Scalability and Security:**
   - o Development of a modular and scalable architecture to accommodate future enhancements such as loyalty programs, chatbots, or AI-driven recommendations.
   - o Integration of security protocols, including HTTPS encryption, to protect user data and build trust.

By addressing the identified issues, this project will provide a comprehensive web solution that enhances customer experience, supports operational efficiency, and aligns with the evolving digital demands of the restaurant industry. The outcome will be a robust, user-centric platform designed to maximize customer engagement, streamline processes, and contribute to the restaurant's long-term growth and sustainability.

CHAPTER 2

LITERATURE SURVEY

The development of a responsive restaurant website requires a comprehensive understanding of modern web development technologies and design principles. This literature survey outlines key areas of study that are crucial for the successful implementation of the project:

1. Web Development Best Practices

- HTML and CSS Structuring: Research best practices for writing clean, semantic HTML and well-organized CSS. Proper structuring improves code readability, maintainability, and scalability.

- Accessibility Standards: Investigate guidelines like the Web Content Accessibility Guidelines (WCAG) to ensure the website is inclusive and usable by people with disabilities, incorporating features such as keyboard navigation and ARIA roles.

- Responsive Web Design Principles: Study techniques to create layouts that adapt seamlessly across devices, including desktops, tablets, and smartphones, ensuring a consistent user experience.

2. CSS Styling and Animation

- Modern CSS Techniques: Explore advanced layout techniques, such as CSS Grid and Flexbox, to build flexible, responsive designs efficiently.

- CSS Animations and Transitions: Investigate how animations, such as those created using @keyframes, can enhance the user experience by providing dynamic visual feedback, such as animated loading icons or hover effects.

3. UI/UX Design

- User Interface and Experience Design Principles: Review foundational UI/UX design principles, focusing on intuitive navigation, visual hierarchy, and user-centric interfaces.

- Aesthetic Enhancements: Study the use of background images, color theory, and multimedia to enhance the website's appeal while ensuring it aligns with the restaurant's brand identity.

- Call-to-Action (CTA) Elements: Analyze the placement, design, and effectiveness of CTAs, such as reservation buttons and online ordering forms, to encourage user interaction.

4. Responsive Design and Media Queries

- Media Query Implementation: Research the effective use of CSS media queries to create adaptable layouts for different screen sizes, resolutions, and orientations.

- Adaptive Styling: Explore examples of responsive designs, focusing on how code dynamically adjusts layouts, fonts, and images to enhance usability across devices.

5. Industry Design Patterns

- Landing Page Analysis: Examine landing pages of leading platforms, such as Netflix, to identify trends in design patterns, color schemes, and content organization that improve user engagement.

- Application in Restaurant Websites: Adapt and apply these patterns to create visually appealing and functional restaurant landing pages.

6. Frontend Frameworks and Libraries

- Framework Evaluation: Study the use of frontend frameworks like Bootstrap for grid-based designs and responsive utilities, and libraries such as jQuery for enhanced interactivity.

- Customization vs. Frameworks: Compare the benefits of using frameworks for faster development against the flexibility of custom styling for unique design requirements.

7. Web Performance Optimization

- Performance Strategies: Explore techniques such as image compression, lazy loading, and HTTP request minimization to optimize page loading times.

- Background Media Optimization: Investigate strategies to manage performance impacts of using background videos or high-resolution images while maintaining visual appeal.

8. Cross-Browser Compatibility

- Compatibility Techniques: Study techniques to ensure consistent rendering and functionality across major browsers, including Chrome, Firefox, Safari, and Edge.

- Testing and Debugging Tools: Learn about tools like BrowserStack and cross-browser testing frameworks to identify and resolve compatibility issues.

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9. HTML Forms and Form Validation

- Form Design Best Practices: Research effective form design strategies, ensuring intuitive input fields, clear labels, and user-friendly layouts.

- Validation Techniques: Investigate client-side validation using JavaScript and server-side validation for secure and robust data handling.

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10. Code Organization and Maintainability

- Code Structuring: Study techniques for organizing HTML, CSS, and JavaScript to improve readability and maintainability, such as modular coding practices.

- Coding Conventions: Adhere to established standards, such as naming conventions, indentation, and commenting, to ensure consistent and professional code.

This literature survey provides a foundation for understanding the technical and design requirements necessary to develop a responsive restaurant website. By integrating insights from these areas, the project will deliver a robust, user-friendly, and visually appealing platform that aligns with modern web development standards and industry best practices.

CHAPTER 3

MAJOR OBJECTIVE AND SCOPE OF PROJECT

Major Objective:

The major objective of this project is to develop a responsive, user-friendly restaurant website that enhances customer engagement by providing easy access to essential services such as the restaurant's menu, online ordering, and reservation system. The goal is to create a visually appealing, intuitive, and interactive platform that reflects the restaurant's brand identity, encourages customer interaction, and boosts business efficiency. The website will ensure a seamless user experience across all devices, from desktops to mobile phones, while promoting the restaurant's offerings and increasing customer satisfaction.

This website aims to achieve the following:

- Showcase the restaurant's offerings through a visually rich and easy-to-navigate menu.

- Enhance customer convenience by providing online reservation and ordering capabilities.

- Promote customer interaction through feedback systems, contact forms, and loyalty programs.

- Provide a responsive experience across devices (desktops, tablets, and mobile phones) to cater to a wide range of users.

Scope of the Project:

- Design and Styling:

  - Visually engaging design using HTML, CSS, and JavaScript that aligns with the restaurant's branding, incorporating the color scheme, typography, and logo.

  - Fully responsive layout that adjusts seamlessly to different screen sizes and devices, ensuring an optimized experience on desktops, tablets, and smartphones.

  - User-centric design with clear and easy navigation, prioritizing important sections like the menu, reservations, and contact details.

- Content Presentation:

  - Structured content into clearly defined sections, such as the homepage, menu, reservation system, contact details, and customer reviews, ensuring easy access to key information.

  - High-quality images and videos to showcase the restaurant's ambiance, signature dishes, and special offers, helping users visualize their experience.

- Interactive menu with item descriptions, pricing, and options for customization, such as dietary information (e.g., vegetarian, vegan, gluten-free).

- User Interaction:

  - Real-time reservation system where customers can book tables by selecting a date, time, and number of guests, with confirmation notifications.

  - Online ordering system for delivery or takeaway, where customers can browse the menu, select items, and complete payments securely.

  - Feedback system for users to rate their experience, leave reviews, or submit inquiries directly to the restaurant.

- Media Integration:

  - Embedding high-quality images and background videos to create a dynamic browsing experience, such as showcasing food preparation or offering virtual tours of the restaurant.

  - Media optimization techniques to ensure that images and videos load quickly and do not affect website performance.

- Form Handling:

  - Reservation and contact forms for users to make reservations or inquire about services, including fields for date, time, number of people, and special requests.

  - Client-side and server-side form validation to ensure that users submit accurate and complete information for reservations and inquiries.

- Multi-Device Compatibility:

  - Responsive design ensuring consistent user experience across different devices, with layouts adjusting to various screen sizes and resolutions.

  - Mobile-friendly navigation, with touch-friendly buttons, collapsible menus, and swipeable galleries for an optimized mobile experience.

- Performance Optimization:

  - Website optimization for fast loading times using techniques like image compression, caching, and minimizing HTTP requests.

  - Implementation of lazy loading for images and media elements to speed up page loading by loading resources only when needed.

- SEO and Accessibility:

  - On-page SEO techniques to improve the website's visibility on search engines, using proper meta tags, keyword optimization, and alt text for images.

  - Adherence to Web Content Accessibility Guidelines (WCAG) to ensure accessibility for users with disabilities, incorporating features like keyboard navigation, screen reader compatibility, and color contrast.

- Cross-Browser Compatibility:

    o   Cross-browser testing to ensure consistent functionality and appearance across major web browsers such as Chrome, Firefox, Safari, and Edge.

    o   Resolving browser-specific issues through CSS and JavaScript adjustments to maintain a uniform experience across different platforms.

- User Feedback and Analytics:

    o   Integration of a feedback system for customers to rate their experience and share suggestions for improvement.

    o   Use of Google Analytics to track user behavior, monitor website performance, and identify areas for improvement.

- Code Organization and Maintainability:

    o   Well-organized HTML, CSS, and JavaScript code that is easy to read and maintain, following modular design principles for scalability.

    o   Adherence to coding standards, including proper indentation, naming conventions, and thorough commenting for future developers.

This expanded Objective and Scope section provides a detailed roadmap for developing a responsive restaurant website, addressing design, content, user interaction, media integration, performance, SEO, accessibility, and maintainability. By focusing on both functional and aesthetic elements, the project aims to deliver a seamless online experience that enhances customer engagement and drives business growth.

CHAPTER 4

Problem Analysis and requirement specification

In today's competitive food and hospitality industry, a strong online presence is essential for attracting and retaining customers. Many customers now turn to websites to explore menus, make reservations, or place online orders, especially in light of the growing trend of digital interactions. However, many restaurants still struggle with creating websites that provide a seamless, user-friendly, and functional online experience.

The key issues identified are:

1. Lack of Responsive Design:

   o A large percentage of restaurant websites are not optimized for different devices. While many websites look great on desktop computers, they may be difficult to navigate on mobile devices. With the majority of consumers using smartphones to browse the web, a non-responsive design creates a poor user experience.

   o Potential customers may abandon the website if they are unable to easily view or interact with the content on their mobile device.

2. Inefficient Content Presentation:

   o Many existing restaurant websites display menu items and information in a cluttered or disorganized manner. Customers may struggle to find what they are looking for, resulting in frustration and a negative impression of the restaurant.

   o A disorganized menu, lack of clear pricing, or poor image quality may lead to lower engagement and decreased sales.

3. Limited User Interaction:

   o A significant number of restaurant websites do not offer interactive features that improve user engagement. Features such as online reservations, ordering, and feedback forms are crucial for streamlining customer interactions.

   o The absence of these features can result in missed opportunities for reservations and orders, reducing the restaurant's potential revenue.

4. Slow Loading Times:

   o A common issue with many restaurant websites is slow load times due to large images, videos, and unoptimized code. Slow loading speeds can frustrate users, increasing bounce rates and lowering the website's search engine ranking.

   o Users expect a fast and smooth browsing experience. Websites that take too long to load may cause potential customers to leave before even viewing the restaurant's offerings.

5. Lack of Accessibility:

   o Many restaurant websites do not fully adhere to accessibility standards, making it difficult for users with disabilities to navigate the website. This includes issues with screen readers, contrast, and navigation that are not keyboard-friendly.

   o Websites that fail to meet accessibility standards exclude a significant portion of the population, which can have both legal and ethical implications.

Requirement Specification:

Based on the problems outlined above, the following functional and non-functional requirements are necessary for the development of the restaurant website. These specifications ensure the website addresses all key user needs, performance goals, and business objectives.

Functional Requirements:

1. Responsive Web Design:

   o The website must be fully responsive, meaning it should automatically adjust its layout and content to provide an optimal viewing experience across various devices (desktops, tablets, smartphones).

   o This includes using flexible grid layouts, media queries, and scalable images, ensuring a consistent user experience on any device.

2. User-Friendly Navigation:

   o The website should be intuitive and easy to navigate. The main navigation menu should be clearly visible, with links to essential sections such as the menu, reservations, online ordering, and contact details.

   o A sticky navigation bar or hamburger menu can be used to keep the navigation options easily accessible, particularly for mobile users.

3. Interactive Menu:

   o A dynamic, interactive menu should be implemented, allowing users to browse items based on categories (e.g., appetizers, main courses, desserts). The menu should include clear descriptions, prices, dietary options, and images for each dish.

   o Features like filtering (vegetarian, vegan, gluten-free, etc.) and sorting by popularity, price, or dietary preference will help customers find dishes they are looking for quickly.

4. Online Reservation System:

   o A real-time reservation system should allow customers to book tables online. Customers should be able to select a date, time, number of people, and receive an instant confirmation email or message.

o The system should display available time slots and send reminders as the reservation time approaches. It should also allow users to cancel or modify their reservations if needed.

5. Online Ordering System:

   o The website should have an integrated online ordering system for customers to place orders for delivery or takeout.

   o The system should allow users to browse the menu, select items, customize their order (e.g., toppings, portion sizes), and securely complete payments.

   o A cart system should track selected items and display the total cost, including any taxes or delivery charges, before checkout.

6. Media Integration:

   o High-quality images and videos showcasing the restaurant's ambiance, food preparation, and signature dishes should be embedded in the website.

   o Video content, such as promotional videos or behind-the-scenes footage, can enhance the experience, but it must be optimized for fast loading and smooth playback.

   o All images and videos should be compressed without sacrificing quality, ensuring a balance between aesthetics and performance.

7. Contact and Inquiry Forms:

   o Contact forms should be designed to collect basic customer details such as name, email, phone number, and message. These forms should be easy to fill out and submit.

   o The forms should also include validation to ensure that all required fields are filled out correctly (e.g., email format, phone number format).

   o The forms should be linked to an email system or database to ensure timely responses from the restaurant team.

8. Customer Feedback System:

   o The website should include a review and rating system for users to share their dining experience. This can be a star-rating system combined with a comment box.

   o The feedback system should be integrated with the restaurant's customer service team to track reviews and respond to customer concerns.

9. Search Functionality:

   o A search bar should be provided to allow customers to quickly find specific menu items, events, or restaurant information.

   o The search should be able to handle basic queries, returning relevant results based on the dish name, category, or special ingredients.

10. Language Support:

- o The website should support multiple languages to cater to diverse customer demographics. Language options should be easy to switch between and clearly displayed on the website's interface.

11. SEO Optimization:

- o The website must be optimized for search engines (SEO), ensuring that search engines can crawl and index the content effectively.

- o This includes proper meta tags, alt text for images, structured data for rich snippets, and SEO-friendly URLs to help improve the website's ranking in search engine results.

12. Security:

- o Secure socket layer (SSL) encryption should be implemented to protect sensitive data such as customer details and payment information.

- o Secure payment gateways like Stripe, PayPal, or other trusted methods should be integrated for online ordering, ensuring data privacy and transaction security.

Non-Functional Requirements:

1. Performance Optimization:

- o The website must be optimized for quick loading times to improve the user experience. Techniques like image compression, JavaScript minification, and caching should be used.

- o Lazy loading for images and videos should be implemented to ensure that media loads only when necessary (i.e., when the user scrolls to it), enhancing page speed.

2. Cross-Browser Compatibility:

- o The website should work consistently across various modern browsers, including Google Chrome, Mozilla Firefox, Safari, and Microsoft Edge.

- o Testing should be conducted to ensure that design, layout, and functionality remain intact across browsers and versions.

3. Accessibility:

- o The website should adhere to the WCAG (Web Content Accessibility Guidelines) to ensure that it is accessible to all users, including those with disabilities.

- o Features like keyboard navigation, screen reader compatibility, and sufficient color contrast will be included to ensure that users with disabilities can interact with the content easily.

4. Maintainability:

- o The website's code should be clean, modular, and well-commented, allowing future developers to maintain and update it efficiently.

- o Proper code organization, adherence to coding standards, and version control will facilitate collaboration and future enhancements.

5. Scalability:

   - o The website should be scalable to handle high volumes of traffic, especially during peak dining hours or special promotions. It should be able to accommodate additional features in the future without major restructuring.

This detailed Problem Analysis and Requirement Specification serves as a foundation for the design and development of your restaurant website. By addressing both functional and non-functional requirements, the project will deliver a responsive, high-performance, and user-friendly website that meets the needs of both the restaurant and its customers.

CHAPTER 5

Detailed Design(Modelling and ERD/DFD)

The detailed design section of the project focuses on how the system will be structured at a technical level, representing the data flow and interactions within the system, as well as how the database will be organized. This section provides insights into the system's architecture, its components, and their relationships.

1.Modelling Overview

The system design for the restaurant website involves the following key components:

1. Frontend (UI/UX): The interface that users will interact with, built using HTML, CSS, JavaScript, and frontend libraries.

2. Backend (Server-side): A web server that handles requests and responses, communicates with the database, and manages functionalities like reservations and orders.

3. Database: Stores all the data related to the restaurant's menu, orders, reservations, and user information.

4. APIs: Interfaces for communication between the frontend and backend (e.g., for processing orders, reservations, etc.).

The interactions between these components will be represented in the following diagrams:

1. Entity Relationship Diagram (ERD)

An Entity Relationship Diagram (ERD) shows the database structure and the relationships between different entities in the system. For this restaurant website, we'll include entities like Users, Orders, Menu Items, Reservations, and Feedback.

Here is a representation of the core entities and their relationships:

- Users
    - UserID (PK)
    - FirstName
    - LastName
    - Email
    - Phone
    - Password (hashed)
    - Address
- MenuItems
    - MenuItemID (PK)

- o Name
- o Description
- o Price
- o Category (e.g., appetizer, main course, dessert)
- o ImageURL

- Orders
  - o OrderID (PK)
  - o UserID (FK)
  - o OrderDate
  - o TotalAmount
  - o Status (e.g., Pending, Completed, Cancelled)

- OrderItems (Associates orders with menu items)
  - o OrderItemID (PK)
  - o OrderID (FK)
  - o MenuItemID (FK)
  - o Quantity
  - o Price

- Reservations
  - o ReservationID (PK)
  - o UserID (FK)
  - o ReservationDate
  - o NumberOfGuests
  - o Status (e.g., Confirmed, Pending)

- Feedback
  - o FeedbackID (PK)
  - o UserID (FK)
  - o Rating (1-5 stars)
  - o Comment
  - o Date

ERD Relationships:

- A User can place multiple Orders, but each Order belongs to one User.

- An Order can contain multiple MenuItems (through OrderItems), and a MenuItem can appear in many Orders.

- A User can make multiple Reservations, but each Reservation belongs to one User.

- Feedback is provided by a User for a particular MenuItem or the overall experience, so there is a relationship between Users and Feedback.

- Orders are associated with MenuItems through OrderItems.

2. Data Flow Diagram (DFD)

A Data Flow Diagram (DFD) illustrates how data moves through the system, showing the flow of information between various processes, data stores, and external entities.

Level 0: Context Diagram

The Context Diagram provides a high-level overview of the system, showing how the restaurant website interacts with external entities.

- External Entities:

  o Customer: Interacts with the website to browse the menu, place orders, make reservations, and provide feedback.

  o Payment Gateway: Handles payment transactions for orders placed through the online ordering system.

- Processes:

  o Restaurant Website System: Handles user requests, processes orders, manages reservations, and displays the menu.

- Data Flows:

  o Customers send requests to view the menu, make reservations, or place orders.

  o The website system processes the requests, interacting with the database to retrieve menu items, process orders, and manage reservations.

  o After completing transactions, the system communicates with the payment gateway for processing payments.

  o Customers receive responses, such as order confirmations or reservation details.

This Detailed Design (ERD and DFD) lays out the foundational structure for your restaurant website, detailing how users interact with the system and how the system processes and stores data. The ERD captures the relationships between entities like Users, Orders, Menu Items, Reservations, and Feedback, while the DFD shows how data flows through the system during typical interactions like placing orders and making reservations. By using these diagrams, you can ensure that all functional requirements are addressed and the system operates efficiently.

CHAPTER 6

HARDWARE/SOFTWARE PLATFORM ENVIROMENT

Hardware Platform

1. Development Environment Hardware:

    o   Personal Computer/Laptop:

        ▪   Processor: Intel i5 or higher, or an equivalent AMD processor.

        ▪   RAM: 8GB or more for efficient multitasking and handling the development tools.

        ▪   Storage: 500GB SSD or larger for faster data access and storage of project files.

        ▪   Display: Full HD (1920x1080) or higher resolution for clear text and design work.

2. Deployment Environment Hardware:

    o   Web Hosting Server:

        ▪   Processor: Multi-core processor (e.g., Intel Xeon or AMD EPYC for handling multiple concurrent requests).

        ▪   RAM: 16GB or more for high traffic websites.

        ▪   Storage: SSD storage for fast data retrieval.

        ▪   Bandwidth: Adequate bandwidth (1Gbps or higher) to handle multiple users and smooth page load times.

        ▪   Backup server to ensure data integrity and system availability.

    o   Mobile Devices (For Testing Responsive Design):

        ▪   Smartphones (Android & iOS): Various screen sizes and resolutions to test the mobile responsiveness.

        ▪   Tablets: For testing tablet versions of the website.

Software Platform

1. Frontend Development:

*   Languages & Technologies:

    o   HTML5: For creating the structure and content of web pages.

    o   CSS3: For styling the layout, colors, typography, and responsiveness.

- JavaScript: For adding interactivity, form validation, dynamic content updates, and animations.

- Responsive Frameworks: Use frameworks like Bootstrap or Tailwind CSS to implement a responsive layout.

- Development Tools & IDEs:

  - Visual Studio Code (VS Code): A lightweight yet powerful code editor with support for HTML, CSS, JavaScript, and extensions for linting and debugging.

  - Sublime Text: Another option for coding with fast performance and great for handling large files.

  - Browser Developer Tools: For real-time debugging, inspecting elements, and testing responsiveness across different screen sizes.

- Version Control System:

  - Git: For version control to keep track of code changes and collaborate with team members.

  - GitHub: For hosting the Git repository and collaboration on the codebase.

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2. Backend Development:

- Languages & Frameworks:

  - PHP: For server-side scripting, as it is commonly used in building web applications like restaurant websites. It's lightweight and easily integrates with MySQL databases.

  - Node.js (Optional): JavaScript runtime for building scalable backend applications.

  - Python (Optional): With frameworks like Flask or Django for creating a backend API.

- Web Servers:

  - Apache HTTP Server: A widely used web server, often paired with PHP for serving dynamic content.

  - Nginx (Optional): A high-performance web server known for handling high traffic.

- Database Management Systems:

  - MySQL: A reliable relational database management system for storing user data, orders, menu items, and reservations.

  - MariaDB (Optional): A MySQL-compatible database that can be used as an alternative.

- o MongoDB (Optional): A NoSQL database for a more scalable, document-oriented approach if needed.

- Backend Frameworks:

  - o Laravel (PHP): A modern PHP framework for rapid web application development, providing built-in features like routing, authentication, and database management.

  - o Express.js (Node.js): A minimal and flexible Node.js framework for building robust web applications.
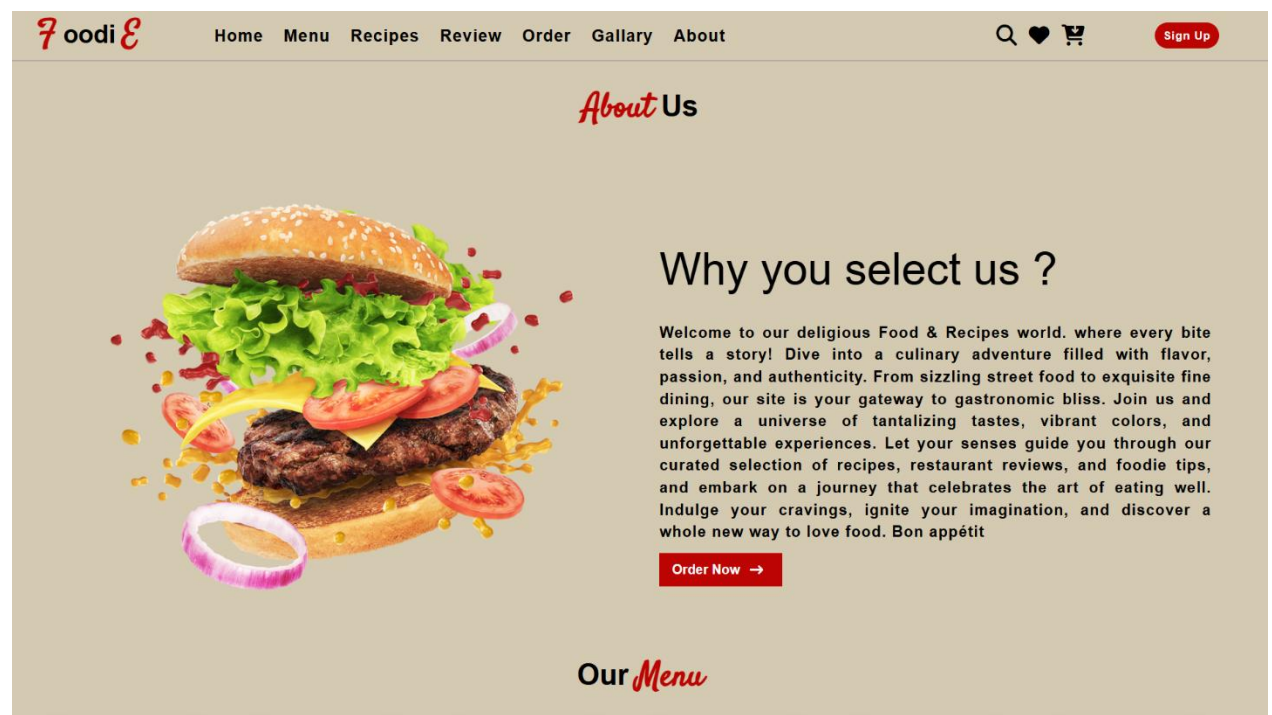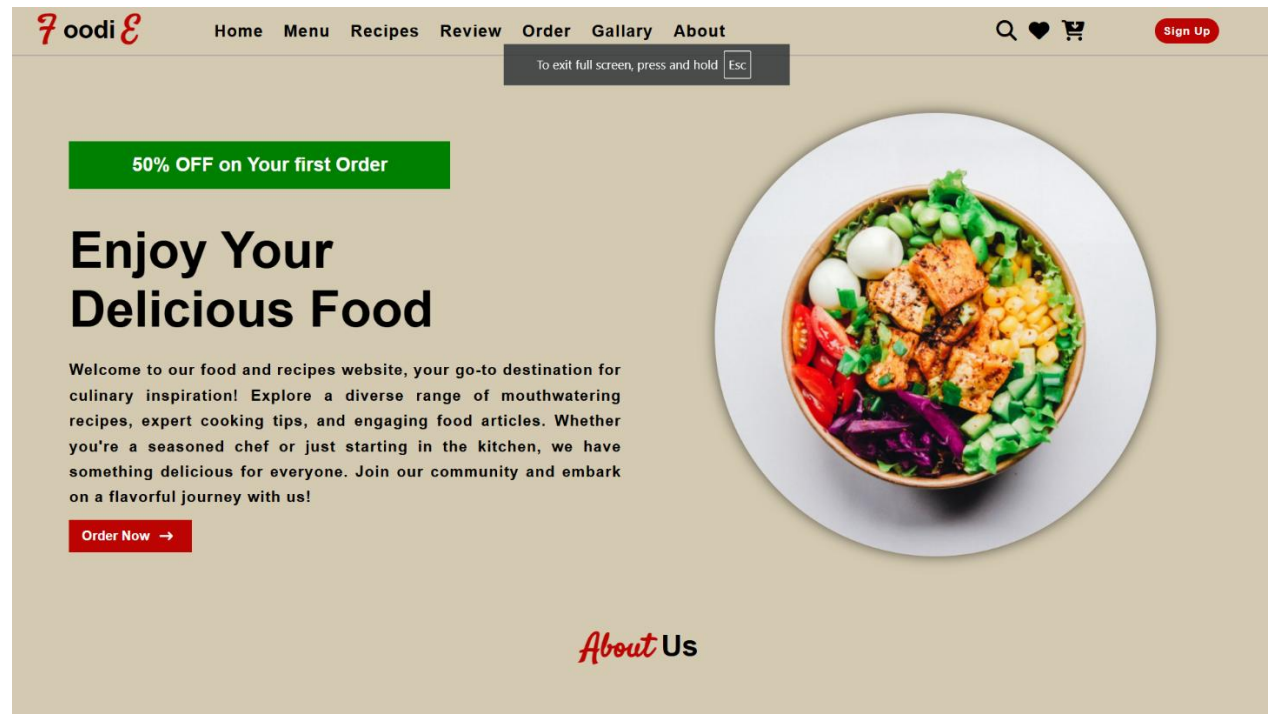
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3. Deployment:

- Web Hosting Services:

  - o Shared Hosting (for small-scale deployment): Providers like Bluehost, HostGator, or SiteGround.

  - o VPS (Virtual Private Server) Hosting (for larger-scale deployment): Providers like DigitalOcean, Linode, or AWS Lightsail.

  - o Cloud Hosting (for scalable, high-availability deployment): Amazon Web Services (AWS), Google Cloud Platform (GCP), Microsoft Azure, or Heroku.

- Domain Name & SSL Certificate:

  - o Domain Name: Purchase a domain name (e.g., www.restaurantname.com) via services like GoDaddy, Namecheap, etc.

  - o SSL Certificate: Secure the website with an SSL certificate to ensure encrypted connections for users. This can be obtained through hosting providers or third-party vendors (Let's Encrypt for free SSL certificates).

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4. Performance and Testing:

- Testing Tools:

  - o Google Lighthouse: For performance, accessibility, and SEO audits.

  - o Selenium (Optional): For automated browser testing.

  - o Jest or Mocha: For unit testing JavaScript code.

- Performance Optimization Tools:

  - o Google PageSpeed Insights: To analyze and optimize page loading speed.

  - o GTmetrix: For detailed website performance and load time insights.

- Cross-browser Testing:

  - o BrowserStack: For testing the website on different browsers and devices.

CHAPTER 7

SNAPSHOTS OF INPUT AND OUTPUT

Our *Menu*

Aloo Gobi
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 200.00
★ ★ ★ ★ ☆
Order Now

Biriyani
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 150.00
★ ★ ★ ★ ☆
Order Now

Barfi
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 120.00
★ ★ ★ ★ ☆
Order Now

Butter Chicken
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 200.00
★ ★ ★ ★ ☆
Order Now

Chaat
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 250.00
★ ★ ★ ★ ☆
Order Now

Chana Masala
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 120.00
★ ★ ★ ★ ☆
Order Now

Dal Makhani
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 180.00
★ ★ ★ ★ ☆
Order Now

Dal Tadka
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 250.00
★ ★ ★ ★ ☆
Order Now

Gulab Jamun
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 180.00
★ ★ ★ ★ ☆
Order Now

Idli
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 70.00
★ ★ ★ ★ ☆
Order Now

Lamb Curry
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 160.00
★ ★ ★ ★ ☆
Order Now

Kulfi
Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda voluptates
₹ 100.00
★ ★ ★ ★ ☆
Order Now

𝓕 oodi 𝓔   Home   Menu   Recipes   Review   Order   Gallary   About   Sign Up

Order Now

Order Your Food

First Name
First Name

Last Name
Last Name

Address
Enter Your Address

Address Line 2
Enter Address Line 2

State
Enter Your State

City
Enter Your City

Country
Enter Your Country

Pin / Zip Code
Enter Your Pin or Zip Code

Phone Number
Enter Your Country

Email
abcd@gmail.com

Reset   Submit

CHAPTER 8

CODING

HTML Code :

```html
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Food & Recipes</title>
    <link rel="stylesheet" href="Food.css">
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.5.2/css/all.min.css"
        integrity="sha512-
SnH5WK+bZxgPHs44uWIX+LLJAJ9/2PkPKZ5QiAj6Ta86w+fsb2TkcmfRyVX3pBnMFcV
7oQPJkl9QevSCWr3W6A=="
        crossorigin="anonymous" referrerpolicy="no-referrer" />
    <link rel="preconnect" href="https://fonts.googleapis.com">
    <link rel="preconnect" href="https://fonts.gstatic.com" crossorigin>
    <link href="https://fonts.googleapis.com/css2?family=Satisfy&display=swap"
rel="stylesheet">
</head>
<body>
    <header>
      <nav>
        <div class="nav-component1">
          <div class="logo">
             <p><span class="s2">F</span> oodi <span>E</span></p>
          </div>
          <div class="navbar">
            <ul>
               <li><a href="#Home">Home</a></li>
               <li><a href="#Menu">Menu</a></li>
               <li><a href="#Recipes">Recipes</a></li>
               <li><a href="#Review">Review</a></li>
               <li><a href="#Order">Order</a></li>
               <li><a href="#Gallary">Gallary</a></li>
               <li><a href="#About">About</a></li>
            </ul>
          </div>
        </div>

        <div class="nav-component2">
          <div class="icons">
```

```html
              <i class="fa-solid fa-magnifying-glass"></i>
              <i class="fa-solid fa-heart"></i>
              <i class="fa-solid fa-cart-arrow-down"></i>
          </div>
          <div class="login">
              <button class="log">Sign Up</button>
              <i class="fa-solid fa-bars"></i>
          </div>
      </div>
   </nav>
</header>
<div class="home" id="Home">
   <div class="home-containt">
      <p class="home-containt-offer">
          50% OFF on Your first Order
      </p>
      <div class="home-containt-welcome">
          <p>Enjoy Your</p>
          <p>Delicious Food</p>
      </div>
      <div class="home-containt-text">
          <p >
              Welcome to our food and recipes website, your go-to destination for culinary
inspiration! Explore a
              diverse range of mouthwatering recipes, expert cooking tips, and engaging food
articles. Whether
              you're
              a seasoned chef or just starting in the kitchen, we have something delicious for
everyone. Join our
              community and embark on a flavorful journey with us!
          </p>
      </div>
      <div class="home-btn">
          <a href="">Order Now <i class="fa-solid fa-arrow-right-long"></i></a>
      </div>
   </div>
   <div class="home-imege">
      <img src="main imege.png" alt="imege">
   </div>
</div>
<div class="about" id="About">
   <h2><span>About</span> Us</h2>
   <div class="about-containt">
      <div class="about-imege">
          <img src="image/about_img.png" alt="about imege">
      </div>

      <div class="about-para">
```
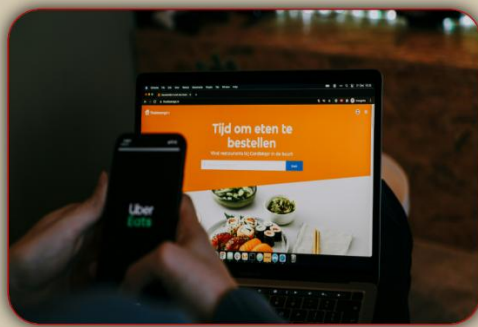
```html
        <p class="whyus">Why you select us ?</p>
        <p class="about-para-content">Welcome to our deligious <b>Food & Recipes</b>
world. where every bite tells a story! Dive into a
            culinary adventure filled with flavor, passion, and
            authenticity. From sizzling street food to exquisite fine dining, our site is your
gateway to gastronomic bliss. Join us and explore a universe of tantalizing tastes, vibrant
colors, and unforgettable experiences. Let your senses guide you through our curated
selection of recipes,restaurant reviews, and foodie tips, and embark on a journey that
celebrates the art of eating well.Indulge your cravings, ignite your imagination, and discover
a whole new way to love food. Bon
            appétit</p>
        <div class="home-btn">
            <a href="">Order Now <i class="fa-solid fa-arrow-right-long"></i></a>
        </div>
      </div>
    </div>
  </div>
  <section class="menu" id="Menu">
    <h1>Our <span>Menu</span></h1>
    <div class="menu_box" id="Menu">
      <div class="menu_card">
        <div class="menu_image">
          <img src="indian food/Aloo Gobi.jpg">
        </div>
        <div class="small_card">
          <i class="fa-solid fa-heart"></i>
        </div>
        <div class="menu_info">
          <h2>Aloo Gobi</h2>
          <p>
            Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda
voluptates
          </p>
          <h3><i class="fa-solid fa-indian-rupee-sign"></i> 200.00</h3>
          <div class="menu_icon">
            <i class="fa-solid fa-star"></i>
            <i class="fa-solid fa-star"></i>
            <i class="fa-solid fa-star"></i>
            <i class="fa-solid fa-star"></i>
            <i class="fa-solid fa-star-half-stroke"></i>
          </div>
          <div class="home-btn-card-btn">
            <a href="">Order Now</a>
          </div>
        </div>
      </div>

      </div>
```

```html
<div class="menu_card">
  <div class="menu_image">
    <img src="indian food/Josh Rogan Lamb Curry.jpg">
  </div>
  <div class="small_card">
    <i class="fa-solid fa-heart"></i>
  </div>
  <div class="menu_info">
    <h2> Lamb Curry</h2>
    <p>
      Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda
    </p>
    <h3><i class="fa-solid fa-indian-rupee-sign"></i> 160.00</h3>
    <div class="menu_icon">
      <i class="fa-solid fa-star"></i>
      <i class="fa-solid fa-star"></i>
      <i class="fa-solid fa-star"></i>
      <i class="fa-solid fa-star"></i>
      <i class="fa-solid fa-star-half-stroke"></i>
    </div>
    <div class="home-btn-card-btn">
      <a href="">Order Now </a>
    </div>
  </div>
</div>

<div class="menu_card">

  <div class="menu_image">
    <img src="indian food/Masala Tea.jpg">
  </div>

  <div class="small_card">
    <i class="fa-solid fa-heart"></i>
  </div>

  <div class="menu_info">
    <h2>Masala Tea</h2>
    <p>
      Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda
voluptates
    </p>
    <h3><i class="fa-solid fa-indian-rupee-sign"></i> 50.00</h3>
    <div class="menu_icon">
      <i class="fa-solid fa-star"></i>
      <i class="fa-solid fa-star"></i>
      <i class="fa-solid fa-star"></i>
      <i class="fa-solid fa-star"></i>
```

```html
          <i class="fa-solid fa-star-half-stroke"></i>
        </div>
        <div class="home-btn-card-btn">
          <a href="">Order Now </a>
        </div>
      </div>

    </div>


    <div class="menu_card">

      <div class="menu_image">
        <img src="indian food/Naan.jpg">
      </div>

      <div class="small_card">
        <i class="fa-solid fa-heart"></i>
      </div>

      <div class="menu_info">
        <h2>Naan</h2>
        <p>
          Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda
voluptates
        </p>
        <h3><i class="fa-solid fa-indian-rupee-sign"></i> 200.00</h3>
        <div class="menu_icon">
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star-half-stroke"></i>
        </div>
        <div class="home-btn-card-btn">
          <a href="">Order Now </a>
        </div>
      </div>

    </div>

    <div class="menu_card">

      <div class="menu_image">
        <img src="indian food/Pakora.jpg">
      </div>

      <div class="small_card">
```

```html
            <i class="fa-solid fa-heart"></i>
          </div>

          <div class="menu_info">
            <h2>Pakora</h2>
            <p>
              Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda
voluptates
            </p>
            <h3><i class="fa-solid fa-indian-rupee-sign"></i> 160.00</h3>
            <div class="menu_icon">
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star-half-stroke"></i>
            </div>
            <div class="home-btn-card-btn">
              <a href="">Order Now </a>
            </div>
          </div>

        </div>


        <div class="menu_card">

          <div class="menu_image">
            <img src="indian food/Paratha.jpg">
          </div>

          <div class="small_card">
            <i class="fa-solid fa-heart"></i>
          </div>

          <div class="menu_info">
            <h2>Paratha</h2>
            <p>
              Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda
voluptates
            </p>
            <h3><i class="fa-solid fa-indian-rupee-sign"></i> 130.00</h3>
            <div class="menu_icon">
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star-half-stroke"></i>
```

```
        </div>
        <div class="home-btn-card-btn">
          <a href="">Order Now </a>
        </div>
      </div>

    </div>



    <div class="menu_card">

      <div class="menu_image">
        <img src="indian food/Ras Malai.jpg">
      </div>

      <div class="small_card">
        <i class="fa-solid fa-heart"></i>
      </div>

      <div class="menu_info">
        <h2>Ras Malai</h2>
        <p>
          Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda
voluptates
        </p>
        <h3><i class="fa-solid fa-indian-rupee-sign"></i> 350.00</h3>
        <div class="menu_icon">
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star-half-stroke"></i>
        </div>
        <div class="home-btn-card-btn">
          <a href="">Order Now </a>
        </div>
      </div>

    </div>



    <div class="menu_card">

      <div class="menu_image">
        <img src="indian food/Shahi Paneer.jpg">
      </div>
```

```html
        <div class="small_card">
           <i class="fa-solid fa-heart"></i>
        </div>

        <div class="menu_info">
           <h2>Shahi Paneer</h2>
           <p>
              Lorem, ipsum dolor sit amet consectetur adipisicing elit. Laborum assumenda
voluptates
           </p>
           <h3><i class="fa-solid fa-indian-rupee-sign"></i>250.00</h3>
           <div class="menu_icon">
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star"></i>
              <i class="fa-solid fa-star-half-stroke"></i>
           </div>
           <div class="home-btn-card-btn">
              <a href="">Order Now </a>
           </div>
        </div>

     </div>

  </div>

</section>


<div class="gallary" id="Gallary">
   <h1>Our <span>Gallary</span></h1>

   <div class="gallary_image_box">

      <div class="gallary_image">
         <img src="image/gallary_1.jpg">

         <h3>Sandwich</h3>
         <p>
            Lorem ipsum dolor sit amet consectetur, adipisicing elit. Commodi sint eveniet
laboriosam
         </p>
         <a href="#" class="gallary_btn">Order Now</a>
      </div>


      <div class="gallary_image">
```

```
        <img src="image/gallary_6.jpg">

    <div class="gallary_image">
        <img src="image/gallary_5.jpg">

        <h3>Pizza</h3>
        <p>
            Lorem ipsum dolor sit amet consectetur, adipisicing elit. Commodi sint eveniet
laboriosam
        </p>
        <a href="#" class="gallary_btn">Order Now</a>
    </div>

    <div class="gallary_image">
        <img src="indian food/Tandoori Chicken.jpg">

        <h3>Tandoori Chicken</h3>
        <p>
            Lorem ipsum dolor sit amet consectetur, adipisicing elit. Commodi sint eveniet
laboriosam
        </p>
        <a href="#" class="gallary_btn">Order Now</a>
    </div>

    <div class="gallary_image">
        <img src="indian food/Thali traditional Indian dish.jpg">

        <h3>Traditional Thali</h3>
        <p>
            Lorem ipsum dolor sit amet consectetur, adipisicing elit. Commodi sint eveniet
laboriosam
        </p>
        <a href="#" class="gallary_btn">Order Now</a>
    </div>

    <div class="gallary_image">
        <img src="indian food/Tikka Masala chicken.jpg">

        <h3>Chicken Tikka Masala</h3>
        <p>
            Lorem ipsum dolor sit amet consectetur, adipisicing elit. Commodi sint eveniet
laboriosam
        </p>
        <a href="#" class="gallary_btn">Order Now</a>
    </div>

    <div class="gallary_image">
        <img src="indian food/Vada Pav.jpg">
```

```
            <h3>Vada Pav</h3>
            <p>
                Lorem ipsum dolor sit amet consectetur, adipisicing elit. Commodi sint eveniet
laboriosam
            </p>
            <a href="#" class="gallary_btn">Order Now</a>
        </div>

        <div class="gallary_image">
            <img src="indian food/Vindaloo.jpg">

            <h3>Vindaloo</h3>
            <p>
                Lorem ipsum dolor sit amet consectetur, adipisicing elit. Commodi sint eveniet
laboriosam
            </p>
            <a href="#" class="gallary_btn">Order Now</a>
        </div>

        <div class="gallary_image">
            <img src="indian food/indian-food-1120x732.jpg">

            <h3>Pakora</h3>
            <p>
                Lorem ipsum dolor sit amet consectetur, adipisicing elit. Commodi sint eveniet
laboriosam
            </p>
            <a href="#" class="gallary_btn">Order Now</a>
        </div>

    </div>

  </div>

  <div class="review" id="Review">
    <h1>Customer <span>Review</span></h1>

    <div class="review-card">
        <div class="review-card-imegebox">

            <div class="review-icon">
                <div class="review-imege">
                    <img src="image/review_1.png" alt="">
                    <h2>Anaya </h2>
                </div>
                <i class="fa-solid fa-star"></i>
                <i class="fa-solid fa-star"></i>
```

```
            <i class="fa-solid fa-star"></i>
            <i class="fa-solid fa-star"></i>
            <i class="fa-solid fa-star-half-stroke"></i>
        </div>

        <div class="review-midea">
            <i class="fa-brands fa-facebook-f"></i>
            <i class="fa-brands fa-instagram"></i>
            <i class="fa-brands fa-x-twitter"></i>
            <i class="fa-brands fa-linkedin-in"></i>
        </div>
        <p>
            Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempora accusamus
voluptate obcaecati
            temporibus iusto labore.
        </p>

    </div>

    <div class="review-card-imegebox">

        <div class="review-icon">
            <div class="review-imege">
                <img src="indian food/r5.jpg" alt="">
                <h2>John</h2>
            </div>
            <i class="fa-solid fa-star"></i>
            <i class="fa-solid fa-star"></i>
            <i class="fa-solid fa-star"></i>
            <i class="fa-solid fa-star"></i>
            <i class="fa-solid fa-star-half-stroke"></i>
        </div>

        <div class="review-midea">
            <i class="fa-brands fa-facebook-f"></i>
            <i class="fa-brands fa-instagram"></i>
            <i class="fa-brands fa-x-twitter"></i>
            <i class="fa-brands fa-linkedin-in"></i>
        </div>
        <p>
            Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempora accusamus
voluptate obcaecati
            temporibus iusto labore.
        </p>

    </div>

    <div class="review-card-imegebox">
```

```html
        <div class="review-icon">
          <div class="review-imege">
            <img src="image/samay.jpg" alt="">
            <h2>Samay</h2>
          </div>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star-half-stroke"></i>
        </div>

        <div class="review-midea">
          <i class="fa-brands fa-facebook-f"></i>
          <i class="fa-brands fa-instagram"></i>
          <i class="fa-brands fa-x-twitter"></i>
          <i class="fa-brands fa-linkedin-in"></i>
        </div>
        <p>
          Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempora accusamus
voluptate obcaecati
          temporibus iusto labore.
        </p>

    </div>

    <div class="review-card-imegebox">

        <div class="review-icon">
          <div class="review-imege">
            <img src="indian food/r3.jpeg" alt="">
            <h2>Ashamin</h2>
          </div>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star"></i>
          <i class="fa-solid fa-star-half-stroke"></i>
        </div>

        <div class="review-midea">
          <i class="fa-brands fa-facebook-f"></i>
          <i class="fa-brands fa-instagram"></i>
          <i class="fa-brands fa-x-twitter"></i>
          <i class="fa-brands fa-linkedin-in"></i>
        </div>
        <p>
```

```
                Lorem ipsum dolor sit amet consectetur adipisicing elit. Tempora accusamus
        voluptate obcaecati
                    temporibus iusto labore.
                </p>

            </div>

        </div>
    </div>

    <div class="order" id="Order">
        <h1><span>Order</span> Now</h1>

        <div class="order-box">
            <div class="order-imege">
                <img src="order imege.jpg" alt="">
            </div>

            <form action="get">
                <h2>Order Your Food</h2>

                <div class="first-line">
                    <div class="line">
                        <p>First Name</p>
                        <input type="text" placeholder="First Name">
                    </div>

                    <div class="line">
                        <p>Last Name</p>
                        <input type="text" placeholder="Last Name">
                    </div>
                </div>

                <div class="first-line">
                    <div class="line">
                        <p>Address</p>
                        <input type="text" placeholder="Enter Your Address">
                    </div>
                    <div class="line">
                        <p>Address Line 2</p>
                        <input type="text" placeholder="Enter Address Line 2">
                    </div>

                </div>

                <div class="first-line">
                    <div class="line">
                        <p>State</p>
```

```
            <input type="text" placeholder="Enter Your State">
          </div>
          <div class="line">
            <p>City</p>
            <input type="text" placeholder="Enter Your City">
          </div>
        </div>

        <div class="first-line">
          <div class="line">
            <p>Country</p>
            <input type="text" placeholder="Enter Your Country">
          </div>
          <div class="line">
            <p>Pin / Zip Code</p>
            <input type="number" placeholder="Enter Your Pin or Zip Code">
          </div>
        </div>

        <div class="first-line">
          <div class="line">
            <p>Phone Number</p>
            <input type="number" placeholder="Enter Your Country">
          </div>
          <div class="line">
            <p>Email</p>
            <input type="email" placeholder="abcd@gmail.com">
          </div>
        </div>
        <div class="first-line">
          <input type="reset" placeholder="Reset" class="button">
          <input type="submit" placeholder="Submit" class="button">
        </div>

      </form>
    </div>

</div>
<!-- .......Footer....... -->
<footer>
   <div class="footer-card">

     <div class="footer-box">
        <h2>Food & Recipes</h2>
        <div class="footer-contain">
           <a href="//">&copy; 2024 Bhopal</a>
           <a href="//#">XYZ Pvt. Ltd</a>
        </div>
```

```html
</div>

<div class="footer-box">
   <h2>Company</h2>
   <div class="footer-contain">
      <a href="//#">About</a>
      <a href="//#">Career</a>
      <a href="//#">Team</a>
      <a href="//#">FeedBack</a>
      <a href="//#">Other</a>
   </div>

</div>
<div class="footer-box">
   <h2>Contact Us</h2>
   <div class="footer-contain">
      <a href="//">Help & Support</a>
      <a href="//#">Partner with Us</a>
      <a href="//#">Ride with Us</a>
      <a href="//#">FeedBack</a>
      <a href="//#">Other</a>
   </div>

</div>
<div class="footer-box">
   <h2>We deliver to :</h2>
   <div class="footer-contain">
      <a href="//#">Delhi</a>
      <a href="//#">Mumbai</a>
      <a href="//#">Kolkata</a>
      <a href="//#">Pune</a>
      <a href="//#">Banglore</a>
   </div>

   <select name="citis" id="citis">
      <option value="Hydrabad">Hydrabad</option>
      <option value="Hydrabad">Bengaluru</option>
      <option value="Hydrabad">Chennai</option>
      <option value="Hydrabad">Gurgaon</option>
   </select>
</div>

<div class="footer-box">
   <h2>Legal</h2>
   <div class="footer-contain">
      <a href="//">Terms & Conditions</a>
      <a href="//#">Cookies Policy</a>
```

```
        <a href="//#">Privicy Policy</a>
      </div>
    </div>


    <div class="footer-box">
      <h2>Follow Us</h2>
      <div class="Company-midea">
        <a
href="https://www.facebook.com/profile.php?id=100075598322558&mibextid=ZbWKwL">
<i
          class="fa-brands fa-facebook-f"></i></a>
        <a
href="https://www.instagram.com/ashamin_hb?igsh=MTFleWRjanp5ZWw4bg=="><i
          class="fa-brands fa-instagram"></i></a>
        <a href="https://github.com/AshaminBiswas/Ashamin"><i class="fa-brands fa-
github"></i></a>
        <a href="https://www.linkedin.com/in/ashamin-biswas-262760238"><i
class="fa-brands fa-linkedin-in"></i></a>
        <a href="https://youtube.com/@ashaminhb?si=ti_mjcabt8dY4NFS"><i
          class="fa-brands fa-youtube"></i></a>
      </div>
    </div>
  </div>


  <div class="fp">
    <p>&copy; DIVYARAJ , KANISHKA  , KRITIKA</p>
  </div>
  </footer>
</body>

</html>
```

CHAPTER 9

PROJECT LIMITATIONS AND FUTURE SCOPE

Project Limitations

1. Feature Set: The project includes basic features like menu display, reservations, and order management, but lacks advanced features such as real-time order tracking, loyalty programs, or a full-fledged admin panel.

2. Scalability: The website may not scale well for high traffic without further optimization, including database and server upgrades.

3. Mobile App: There is no dedicated mobile app; only a responsive website is available.

4. Payment Integration: Limited to basic payment methods (e.g., PayPal), with no advanced options or multiple currency support.

5. Data Security: Basic security features are included, but advanced privacy protocols (e.g., GDPR compliance) may be lacking.

6. Performance: Performance may degrade under heavy load, especially if hosted on basic servers.

7. Cross-browser Compatibility: May face minor compatibility issues on different browsers.

8. Limited Admin Functionality: Lacks advanced admin features like inventory and user management.

Future Scope

1. Mobile App Development: A dedicated mobile app for better user experience and engagement.

2. Advanced Payment Integration: Additional payment options (digital wallets, multi-currency).

3. Real-Time Management: Features for real-time order tracking and instant reservation updates.

4. Loyalty Program: A rewards system to enhance customer retention.

5. Multi-language & Multi-currency: Global support for various languages and currencies.

6. AI Recommendations: Personalized dish recommendations based on user preferences.

7. Admin Panel: More advanced features like inventory management and sales reporting.

8. SEO & Marketing Tools: Enhanced search engine optimization and promotional features.

9. AR Menu: Augmented reality for visualizing menu items.

10. Performance Improvements: Scalability with cloud services and performance optimizations.

11. Compliance: Adherence to data protection regulations like GDPR.

CHAPTER 10

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3.Image Sources:

-Pixabay: Pixabay for free images.

4.Programming References:

-Stack Overflow: Stack Overflow for programming-related queries.

5.Google PageSpeed Insights:

-Tool by Google that analyzes the content of a web page and generates suggestions to make it faster. PageSpeed Insights.