**MEWAR INSTITUTE OF MANAGEMENT**

**Sec-4C, Vasundhara, Ghaziabad, UP**



**A PROJECT REPORT**

**ON**

**“Responsive restaurant website”**

Submitted To

**DEPARTMENT OF COMPUTER SCIENCE**

Affiliated To

**CHAUDHARY CHARAN SINGH UNIVERSITY, MEERUT**

In The Partial Fulfillment for The Award of The Degree of

**BACHELOR OF COMPUTER APPLICATION**

**PROJECT GUIDE SUBMITTED BY**

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**MEWAR INSTITUTE OF MANAGEMENT**

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**CERTIFICATE**

I hereby declare that the work, which is being presented in the report entitled **“Responsive restaurant website”** partial fulfillment of the award of the degree of **BACHELOR OF COMPUTER APPLICATION** submitted in the **Department of Computer Science, MEWAR INSTITUTE OF MANAGEMENT, GHAZIABAD** is an authentic record of my own work carried out under the supervision of **MR. AMBUJ SHARMA (ASSISTANT PROFESSOR), DEPARTMENT OF COMPUTER SCIENCE, MEWAR INSTITUTE**

**OF MANAGEMENT Sec-4C, Vasundhara, Ghaziabad, U.P.**

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This is to certify that the above statement made by the candidate is correct to the best of my knowledge.

**Mr. Shamshed Ali Mr. Ambuj Sharma**

HOD (Project Guide)



**DECLARATION**

We hereby declare that the project work entitled **“Responsive restaurant website”** is an authentic work carried out by us at **DEPARTMENT OF COMPUTER SCIENCE, MEWAR INSTITUTE OF MANAGEMENT SEC-4C, VASUNDHARA, GHAZIABAD, U.P.** Under

the guidance of Mr. Ambuj Sharma (Assistant professor), Department of Computer Science) for the partial fulfillment of the award of **DEGREE OF BACHELOR OF COMPUTER APPLICATION**.

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Date:- 4 june**, 2024 NAME: Khushi Bamola Roll No. 210904106054**

**Batch 2021-24 BCA 6th Semester**



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**BCA 6th SEMESTER NAME: Khushi Bamola BATCH 2021-24 ROLL NO. 210904106054**

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**INTRODUCTION**

The primary objective of this project was to develop a responsive restaurant website that enhances the online presence of a dining establishment. With the increasing reliance on digital solutions for accessing information and making reservations, it has become imperative for restaurants to have an appealing and functional online presence. This project aimed to create a website that not only reflects the restaurant's brand and ambiance but also provides a seamless user experience across various devices, including desktops, tablets, and smartphones.

The responsive restaurant website was designed with the following key features:User-Friendly Navigation: An intuitive layout that allows users to easily access menus, make reservations, and find contact information.Mobile Compatibility: Ensuring the website is fully functional and visually appealing on all types of devices, catering to the growing number of users accessing the internet via mobile devices.Visual Appeal: High-quality images and a clean, modern design to effectively showcase the restaurant’s offerings and ambiance.Interactive Elements: Features such as reservation forms, customer reviews, and a dynamic menu that can be updated with seasonal specials and new offerings.Search Engine Optimization (SEO): Implementing best practices to improve the website’s visibility on search engines, thereby attracting more visitors.Throughout the development process, various web technologies and frameworks were employed, including HTML5, CSS3, JavaScript, and responsive design frameworks such as Bootstrap. The project also involved backend integration to manage reservations and ustomer inquiries effectively.

Abstract

This project focuses on the development of a responsive restaurant website designed to enhance the digital presence of a dining establishment. Recognizing the growing importance of online platforms in the restaurant industry, the project aimed to create a website that is visually appealing, user-friendly, and fully functional across a variety of devices. Key features of the website include intuitive navigation, high-quality imagery, interactive elements such as reservation forms and dynamic menus, and mobile compatibility.

The website was built using modern web technologies and frameworks, including HTML5, CSS3, JavaScript, and Bootstrap, ensuring a seamless user experience regardless of the device used to access it. Additionally, the project incorporated search engine optimization (SEO) techniques to improve the site’s visibility on search engines, driving more traffic and potential customers to the restaurant.

In essence, this project demonstrates the integration of design aesthetics, technical functionality, and user-centric features to create a comprehensive online solution for a restaurant. The responsive website not only serves as a digital representation of the restaurant’s brand and offerings but also enhances customer engagement and convenience, ultimately contributing to the restaurant's business success in the digital age.

Objective

The primary objectives of the responsive restaurant website project are as follows:

Enhance Online Presence:Develop a visually appealing and cohesive online platform that accurately represents the restaurant's brand, ambiance, and offerings.Improve User Experience:Create an intuitive and user-friendly interface that enables visitors to easily navigate through the website, access menus, make reservations, and find contact information.Ensure Mobile Compatibility:Design a responsive website that functions seamlessly across various devices, including desktops, tablets, and smartphones, ensuring accessibility for all users.Showcase Offerings:Utilize high-quality images and multimedia to effectively display the restaurant’s menu items, specials, and dining environment, enticing potential customers.Implement Interactive Features:Incorporate interactive elements such as online reservation forms, customer reviews, and a dynamic menu that can be updated regularly to reflect seasonal offerings and new dishes.Optimize for Search Engines:Apply search engine optimization (SEO) best practices to improve the website's visibility on search engines, thereby attracting more visitors and potential customers.Facilitate Customer Engagement:Provide features that allow customers to easily interact with the restaurant, such as contact forms, social media links, and feedback options.Integrate Backend Functionality:Develop backend systems to manage reservations, customer inquiries, and other administrative functions efficiently.Promote Brand Consistency:Ensure that the website’s design, content, and functionality consistently reflect the restaurant’s brand identity and values.Ensure Scalability and Maintainability:Build a website architecture that allows for future updates, scalability, and ease of maintenance,

accommodating the restaurant’s evolving needs.

By achieving these objectives, the project aims to provide a comprehensive digital solution that enhances the restaurant’s online presence, improves customer engagement, and ultimately contributes to its business growth and success.

# Scope of the project

* Design and Development:

Front-End Design: Creating a visually appealing, user-friendly interface using HTML5, CSS3, and JavaScript, ensuring an engaging user experience.

Responsive Layout: Implementing a responsive design framework (such as Bootstrap) to ensure the website functions seamlessly on desktops, tablets, and smartphones.

Interactive Elements: Incorporating features like reservation forms, customer reviews, dynamic menus, and image galleries to enhance user interaction and engagement.

* Content Management:

Dynamic Menus: Developing a system for easily updating menu items, prices, and specials to keep content current and relevant.

Multimedia Integration: Using high-quality images and videos to

showcase the restaurant’s offerings and ambiance effectively.

* Backend Integration:

Reservation System: Creating a backend system to manage online reservations efficiently, including form submissions and database integration.

Customer Feedback: Implementing a mechanism to collect and manage customer reviews and feedback.

* Search Engine Optimization (SEO):

On-Page SEO: Optimizing website content, including meta tags, headings, and keywords, to improve search engine visibility.

Technical SEO: Ensuring fast load times, mobile-friendliness, and proper indexing by search engines.

* User Experience (UX) and User Interface (UI):

Navigation: Designing intuitive and easy-to-use navigation menus and links to improve overall user experience.

Accessibility: Ensuring the website is accessible to all users, including those with disabilities, by adhering to web accessibility standards (WCAG).

* Security and Privacy:

Data Protection: Implementing security measures to protect user data, especially for reservation and contact forms.

Compliance: Ensuring the website complies with relevant data protection regulations, such as GDPR or CCPA, depending on the region.

* Maintenance and Scalability:

Content Management System (CMS): Integrating a CMS to allow

non-technical staff to update content easily.

Scalability: Designing the website architecture to accommodate future growth and additional features as needed.

* Deployment and Hosting:

Web Hosting: Selecting and configuring a reliable web hosting service to ensure website uptime and performance.

Domain Management: Managing the restaurant’s domain name and

ensuring proper DNS settings.

By defining these elements, the project scope ensures a comprehensive approach to developing a responsive restaurant website that meets current needs while being adaptable to future requirements.

# Modules of the Project

The responsive restaurant website project is divided into several modules, each responsible for specific functionalities and features. These modules collectively ensure the smooth operation and comprehensive user experience of the website. The key modules are:

* User Management Module:- This module handles user registration, authentication, and profile management.

Features: User registration and loginPassword recoveryUser profile managementRole-based access control (e.g., customer, admin)

* Menu Management Module:- This module manages the

restaurant’s menu, allowing for updates and categorization of menu

items.

Features: CRUD operations (Create, Read, Update, Delete) for menu itemsCategorization of menu items (e.g., appetizers, main courses, desserts)Image upload and management for menu itemsDynamic menu updates.

* Reservation Management Module:- This module facilitates the reservation process for customers and the management of reservations by the restaurant staff.

Features:Online reservation formReservation calendar view for staffReservation status management (e.g., pending, confirmed, cancelled)Email notifications for reservation confirmations and

reminders

* Review and Feedback Module:- This module allows customers to leave reviews and feedback about their dining experience.

Features:Review submission formStar rating systemDisplay of customer reviews on the websiteReview moderation by admin

* Contact and Inquiry Module:- This module manages customer inquiries and messages sent through the contact form.

Features:Contact form for customer inquiriesBackend management of inquiriesStatus tracking of inquiries (e.g., new, read, replied)Email notifications for received inquiries

* Gallery and Media Module:- This module manages the images and media displayed on the website, such as photo galleries and promotional videos.

Features:Image and video uploadCategorization of media (e.g., ambiance, events, menu items)Image gallery displayMedia management interface for admin

* SEO and Analytics Module:- This module optimizes the website for search engines and tracks user interactions for analytical purposes.

Features:SEO metadata management (e.g., meta titles, descriptions, keywords)Integration with Google Analytics or similar servicesTracking of user interactions (e.g., page views, button clicks)Reporting and analytics dashboard for admin

* Content Management System (CMS) Module:- This module allows

non-technical staff to update website content easily.

Features:WYSIWYG (What You See Is What You Get) editor for content pagesCRUD operations for blog posts, events, and announcementsMedia library managementUser-friendly admin interface

* Security Module:- This module ensures the security and privacy of user data and website operations.

Features:Data encryption for sensitive informationSecure user authentication and authorizationRegular security audits and vulnerability assessmentsCompliance with data protection regulations (e.g., GDPR, CCPA)

* Deployment and Hosting Module:- This module manages the deployment and hosting aspects of the website.

Features:Selection and configuration of web hosting servicesDomain name managementContinuous integration and deployment (CI/CD) setupPerformance monitoring and optimization

By organizing the project into these modules, the development process becomes more manageable, and each module can be developed, tested, and maintained independently, ensuring a robust and scalable responsive restaurant website.

# Input Data and Validation

The responsive restaurant website project involves various forms and input fields where users and administrators enter data. Ensuring that this data is validated correctly is crucial for maintaining data integrity, security, and user experience. Below are the key input data types and the corresponding validation rules:

* User Registration and Login Input Data:

Name: name (string)

Email: email (string) Password: password (string)

Phone Number: phone\_number (string, optional)

Validation Rules:

Name:

Must not be empty

Should contain only alphabets and spaces Length between 2 and 50 characters

Email:

Must not be empty

Must follow a valid email format (e.g., [user@example.com](mailto:user@example.com))

Password:

Must not be empty

Length between 8 and 20 characters

Must include at least one uppercase letter, one lowercase letter, one number, and one special character

Phone Number:

Must follow a valid phone number format (optional, e.g., +1-234- 567-8900)

* Menu Management Input Data:

Item Name: name (string)

Description: description (string) Price: price (float)

Category: category (string) Availability: availability (boolean) Image URL: image\_url (string)

Validation Rules:

Item Name:

Must not be empty

Length between 2 and 100 characters

Description:

Length up to 500 characters

Price:

Must be a positive number

Category:

Must not be empty

Should match predefined categories (e.g., appetizers, main courses, desserts)

Availability:

Must be a boolean value (true or false)Image [URL:Must](Must) follow a valid URL format

* Reservation Management Input Data:

User ID: user\_id (integer, foreign key)

Reservation Date: reservation\_date (date) Reservation Time: reservation\_time (time) Number of Guests: number\_of\_guests (integer)

Special Requests: special\_requests (string, optional) Status: status (string)

Validation Rules:

User ID:

Must be a valid user ID (existing in the database) Reservation Date:

Must be a future date Reservation Time:

Must follow a valid time format (HH:MM) Number of Guests:

Must be a positive integerTypically between 1 and 20 Special Requests:

Length up to 500 characters (optional) Status:

Must match predefined statuses (e.g., pending, confirmed, cancelled)

* Review and Feedback Input Data:

User ID: user\_id (integer, foreign key) Rating: rating (integer)

Comment: comment (string, optional) Validation Rules:

User ID:

Must be a valid user ID (existing in the database)

Rating:

Must be an integer between 1 and 5

Comment:

Length up to 1000 characters (optional)

* Contact and Inquiry Input Data:

Name: name (string)

Email: email (string)

Phone Number: phone\_number (string, optional) Message: message (string)

Validation Rules:

Name:

Must not be empty

Length between 2 and 50 characters

Email:

Must not be empty

Must follow a valid email format

Phone Number:

Must follow a valid phone number format (optional)

Message:

Must not be emptyLength up to 1000 characters

* Image Upload Input Data:

Image File: image\_file (file)

Caption: caption (string, optional) Category: category (string)

Validation Rules:

Image File:

Must be a valid image format (e.g., JPG, PNG) Maximum file size (e.g., 5MB)

Caption:

Length up to 100 characters (optional)

Category:

Must match predefined categories (e.g., ambiance, events, menu items)

**General Validation Practices**

* Server-Side and Client-Side Validation: Implement validation both on the client side (using JavaScript) for immediate feedback and on the server side to ensure security.
* Sanitization: Sanitize all inputs to prevent SQL injection, XSS, and other attacks.
* Error Handling: Provide clear error messages and feedback to guide users in correcting their inputs.
* Regular Expressions: Use regular expressions for validating formats like email, phone number, and URLs.

By implementing these input data types and validation rules, the project ensures robust data integrity, enhances security, and provides a better user experience.

# Features of the Project

The responsive restaurant website project includes a range of features designed to enhance user experience, streamline restaurant operations, and provide a comprehensive digital presence. The key features are categorized based on user interactions and administrative functionalities.

## User-Facing Features

* Responsive Design:

- Ensures the website is fully functional and visually appealing on all devices, including desktops, tablets, and smartphones.

* Intuitive Navigation:

-Easy-to-use menus and links for seamless navigation throughout the website.

* Dynamic Menu Display:

-Interactive menu pages with detailed descriptions, prices, and high- quality images of dishes.

-Ability to filter and sort menu items by categories (e.g., appetizers, main courses, desserts).

* Online Reservations:

-User-friendly reservation form for booking tables.

-Immediate confirmation and email notifications for reservations.

-Option to specify the number of guests, date, time, and any special requests.

* Customer Reviews and Ratings:

-Section for customers to leave reviews and rate their dining experience.

-Display of reviews and ratings on the website to build credibility and trust.

* Contact and Inquiry Form:

-Easy-to-access contact form for customer inquiries and feedback.

-Integration with email notifications to ensure timely responses.

* Photo Gallery:

-High-quality image galleries showcasing the restaurant’s

ambiance, events, and special dishes.

-Categorized images for easy browsing.

* SEO Optimization:

-On-page SEO features to improve search engine visibility, including meta tags, descriptions, and keywords.

* Social Media Integration:

-Links to the restaurant’s social media profiles.

-Option to share menu items and events on social media platforms.

* Accessibility Features:

-Adherence to web accessibility standards (WCAG) to ensure the website is usable by individuals with disabilities.

## Administrative Features

* Content Management System (CMS):

-Easy-to-use CMS for updating website content, including menus, events, and blog posts.

-WYSIWYG editor for non-technical staff to manage content effortlessly.

* Reservation Management:

-Admin interface for viewing, confirming, and managing reservations.

-Calendar view for efficient reservation management.

* Menu Management:

-CRUD operations for menu items, allowing administrators to add, update, or remove dishes.

-Category management for organizing menu items.

* Review Moderation:

-Tools for moderating customer reviews to ensure quality and appropriateness.

-Option to respond to reviews and address customer feedback.

* Inquiry Management:

-Dashboard for managing customer inquiries and tracking their status (e.g., new, read, replied).

-Email notifications for incoming inquiries.

* Media Management:

-Upload and manage images and videos.

-Categorization of media content for organized display.

* User Management:

-Role-based access control for different types of users (e.g., customers, admin).

-Management of user accounts, including registration, authentication, and profile updates.

* Analytics and Reporting:

-Integration with Google Analytics or similar tools to track website traffic and user interactions.

-Reporting dashboard to provide insights into user behavior and website performance.

* Security Features:

-Data encryption for sensitive information.

-Regular security updates and vulnerability assessments to protect user data.

* Scalability and Maintenance:

-Scalable architecture to accommodate future growth and additional features.

-Easy maintenance and updates through a well-structured codebase and documentation.

## Enhanced User Experience:-

* Fast Loading Times:

-Optimized images and code to ensure quick load times for a better user experience.

* Interactive Elements:

-Use of JavaScript and CSS animations to enhance user interaction and engagement.

* Multilingual Support:

-Option to offer content in multiple languages to cater to a diverse

audience (if applicable).

By incorporating these features, the responsive restaurant website project aims to provide a robust, user-friendly, and efficient platform that meets the needs of both customers and restaurant staff, ultimately contributing to the restaurant’s success.

# Software Requirement Specification (SRS)

* Introduction

-Purpose:-

The purpose of this document is to provide a comprehensive Software Requirement Specification (SRS) for the development of a responsive restaurant website. This SRS outlines the functional and non-functional requirements, system features, and user interactions, serving as a guide for the design, development, and testing phases of the project.

-scope:-

This project aims to create a responsive restaurant website that enhances the online presence of the restaurant, providing features such as menu display, online reservations, customer reviews, and administrative functionalities. The website will be accessible across various devices, ensuring a seamless user experience.

-Definitions, Acronyms, and Abbreviations:-

* SRS: Software Requirement Specification
* CMS: Content Management System
* SEO: Search Engine Optimization
* UX: User Experience
* UI: User Interface
* WCAG: Web Content Accessibility Guidelines

-References:-

* Web Content Accessibility Guidelines (WCAG)
* Bootstrap Documentation
* Google Analytics Documentation
* Overall Description:-

-Product Perspective:-

The responsive restaurant website is a standalone application that will interact with the restaurant's backend systems for managing reservations, menu updates, and customer inquiries. It will serve as the primary digital presence for the restaurant.

-Product Functions:-

* Display restaurant menu with categories and images
* Online reservation system
* Customer reviews and ratings
* Contact and inquiry form
* Photo gallery
* SEO optimization
* Content management for admins

-User Classes and Characteristics:-

* Customers: Users who visit the website to view the menu, make reservations, leave reviews, and contact the restaurant.
* Administrators: Restaurant staff who manage the website content, reservations, customer inquiries, and reviews.

-Operating Environment:-

* Client Side: Compatible with modern web browsers (Chrome, Firefox, Safari, Edge)
* Server Side: Linux-based servers with PHP and MySQL database

-Design and Implementation Constraints:-

* Must adhere to web accessibility standards (WCAG)
* Responsive design framework (e.g., Bootstrap)
* Secure handling of user data

-Assumptions and Dependencies:-

* Internet connection is required for accessing the website
* Availability of high-quality images for menu items and gallery
* Third-party services for SEO and analytics (e.g., Google Analytics)
* Specific Requirements:-

-Functional Requirements:- User Registration and Login-

* Description: Allow users to register and log in to access personalized features.
* Inputs: Name, email, password, phone number (optional)
* Outputs: User account creation and authentication
* Validation: Email format, password strength, non-empty fields

Menu Display:-

* Description: Display the restaurant's menu with detailed descriptions, prices, and images.
* Inputs: Menu item details (name, description, price, category, image)
* Outputs: Dynamic menu page
* Validation: Non-empty fields, valid price format

Online Reservation System:-

* Description: Allow users to make table reservations online.
* Inputs: Reservation date, time, number of guests, special requests
* Outputs: Reservation confirmation and notification
* Validation: Future date, valid time format, positive number of guests

Customer Reviews:-

* Description: Enable customers to leave reviews and ratings.
* Inputs: Rating, comment
* Outputs: Display of reviews on the website
* Validation: Rating within range (1-5), comment length

Contact Form:-

* Description: Provide a form for users to send inquiries and feedback.
* Inputs: Name, email, phone number (optional), message
* Outputs: Email notification to admin
* Validation: Email format, non-empty fields

Photo Gallery:-

* Description: Display images of the restaurant’s ambiance and

events*.*

* Inputs: Image file, caption (optional), category
* Outputs: Photo gallery page
* Validation: Valid image format, file size
* Non-Functional Requirements:- Performance Requirements:-

-Response Time: Pages should load within 3 seconds on standard internet connections.

-Scalability: The system should handle up to 1000 concurrent users without performance degradation.

Security Requirements:-

-Data Encryption: Sensitive data should be encrypted in transit and at rest.

-Authentication: Secure user authentication mechanisms must be implemented.

-Authorization: Role-based access control for different user roles.

Usability Requirements:-

-Accessibility: The website should comply with WCAG standards.

-Responsive Design: The website should provide a seamless experience across all device types.

-Intuitive navigation: Users should be able to navigate the website easily.

Reliability Requirements:-

-Uptime: The website should be available 99.9% of the time.

-Backup: Regular backups should be taken to prevent data loss.

Maintainability Requirements:-

-Code Documentation: Proper documentation of code and APIs.

-Modular Design: The system should be designed in a modular way to facilitate easy updates and maintenance.

* External Interface Requirements:- User Interfaces

- Browser Compatibility: The website should be compatible with the

latest versions of major web browsers.

-Responsive Layout: The layout should adapt to different screen sizes and resolutions.

Hardware Interfaces

-Server: Linux-based server with PHP and MySQL.

-Client Devices: Desktops, laptops, tablets, smartphones.

Software Interfaces

-Database: MySQL for data storage.

-APIs: Integration with Google Analytics for tracking and reporting.

Communication Interfaces:-

-Email: SMTP for sending email notifications.

-HTTP/HTTPS: For secure communication between client and server.

* System Features

-Content Management

Admin interface for managing menu items, reservations, reviews, and media content.

WYSIWYG editor for updating website content.

-Reservation Management

Calendar view for managing reservations.

Notification system for new reservations and changes.

-Review Management

Moderation tools for customer reviews. Ability to respond to reviews.

-Inquiry Management

Dashboard for managing and responding to inquiries. Email notifications for new inquiries.

* Other Requirements:-

-Legal and Regulatory Requirements:-

Compliance with data protection regulations (e.g., GDPR, CCPA).

Accessibility compliance as per WCAG standards.

-Ethical Requirements

Ensure user data privacy and confidentiality. Transparent handling of customer reviews and feedback.

By following this SRS, the development team can ensure that the responsive restaurant website meets the specified requirements, providing a robust and user-friendly platform for both customers and restaurant staff.

# Identification of Need

* Market Trends and Customer Expectations:-

In today's digital age, customers expect businesses, including restaurants, to have a strong online presence. The increasing reliance on the internet for information, reservations, and reviews means that a responsive and user-friendly website is essential for any restaurant looking to stay competitive. Customers prefer the convenience of viewing menus, making reservations, and reading reviews online before choosing where to dine.

* Enhanced Customer Engagement:-

A responsive restaurant website allows for better customer engagement by providing an interactive platform where customers can easily find information, make reservations, leave reviews, and contact the restaurant. This level of engagement helps build a loyal customer base and enhances the overall dining experience.

* Operational Efficiency

For restaurant staff, a well-designed website streamlines operations by automating reservations, managing menu updates, and handling customer inquiries efficiently. This reduces the workload on staff and minimizes errors, allowing them to focus more on providing excellent service.

* Competitive Advantage:-

Having a modern, responsive website gives the restaurant a

competitive edge in a crowded market. It showcases the restaurant’s offerings, ambiance, and unique selling points effectively, attracting more customers and standing out from competitors who may not have an optimized online presence.

* Accessibility and Reach:-

A responsive website ensures that the restaurant can reach a wider audience, including those using mobile devices. With a significant portion of internet traffic coming from smartphones and tablets, it is crucial to provide a seamless experience across all device types to cater to this growing segment.

* Brand Building and Reputation Management:-

A professionally designed website enhances the restaurant’s brand image and helps manage its reputation. Features like customer reviews, photo galleries, and detailed menus contribute to a positive perception and credibility. Additionally, the ability to respond to reviews and inquiries in a timely manner helps in maintaining a good relationship with customers.

* SEO and Online Visibility:-

A well-optimized website improves the restaurant’s visibility on search engines, driving more organic traffic. By implementing SEO best practices, the restaurant can attract potential customers who are searching for dining options in the area, increasing the chances of being discovered online.

* Data-Driven Insights:-

Integrating analytics tools with the website provides valuable insights into customer behavior, preferences, and website performance. This data helps in making informed decisions regarding menu changes, marketing strategies, and overall business improvements.

* Future-Proofing the Business:-

Investing in a responsive restaurant website is a step towards future- proofing the business. As technology evolves and customer expectations change, having a flexible and scalable online platform ensures that the restaurant can adapt and continue to meet the needs of its customers.

# Feasibility Study

The feasibility study aims to evaluate the practicality and potential success of developing a responsive restaurant website. This includes analyzing the technical, economic, operational, legal, and schedule feasibility to determine whether the project should proceed.

* Technical Feasibility

-Technology Assessment:-

The project will use established technologies such as:

Frontend: HTML5, CSS3, JavaScript, and Bootstrap for responsive design.

Backend: PHP and MySQL for server-side scripting and database management.

Hosting: Linux-based servers for deployment.

Analytics and SEO: Integration with Google Analytics and SEO tools.

-Technical Skills and Resources:-

The development team possesses the necessary skills and experience in web development, including frontend and backend technologies. Resources such as development environments, servers, and testing tools are readily available.

-Integration and Scalability:-

The system is designed to be modular, allowing for easy integration with existing restaurant management systems and scalability to handle increased traffic and additional features in the future.

* Economic Feasibility:-

-Cost-Benefit Analysis:-

Development Costs: Includes costs for web development, design, testing, and deployment.

Operational Costs: Ongoing costs for hosting, maintenance, and updates.

Benefits: Increased customer engagement, streamlined operations, competitive advantage, and potential revenue growth through online reservations and promotions.

-Return on Investment (ROI):-

The project is expected to provide a positive ROI by attracting more customers, improving operational efficiency, and enhancing the restaurant’s online presence. The increased visibility and customer satisfaction can lead to higher sales and repeat business.

* Operational Feasibility:-

-User Acceptance:- Customers and restaurant staff are likely to welcome the new website due to its user-friendly design, ease of navigation, and valuable features such as online reservations and menu management.

-Impact on Current OperationsThe new system will streamline operations by automating reservations and inquiries, reducing the administrative burden on staff. Training for staff on how to use the CMS and manage reservations will be provided to ensure smooth integration.

* Legal Feasibility

-Regulatory Compliance:-

The website will comply with relevant data protection regulations, including GDPR and CCPA, ensuring the privacy and security of user

data. Additionally, it will adhere to web accessibility standards (WCAG) to ensure inclusivity.

-Intellectual Property:-

All content, including images and text, will be original or properly licensed to avoid copyright issues. Proper attribution and licensing agreements will be in place for any third-party content.

* Schedule Feasibility:-

-Project Timeline:- A detailed project timeline will be developed, outlining key milestones such as requirement gathering, design, development, testing, and deployment. A typical timeline might be:

-Week 1-2: Requirement analysis and project planning

-Week 3-6: Design and prototyping

-Week 7-12: Development phase

-Week 13-15: Testing and quality assurance

-Week 16: Deployment and training

-Resource Allocation:- The project will have a dedicated team including project managers, developers, designers, and testers. Adequate resources and time will be allocated to ensure each phase is completed on schedule.

# System design of project

Introduction

The system design outlines the architecture, components, modules, interfaces, and data flow for the responsive restaurant website.

This document provides a detailed plan to guide the development, ensuring that all functional and non-functional requirements are met.

1. System Architecture:-

The system architecture consists of three main layers:Presentation Layer (Frontend)Business Logic Layer (Backend)Data Layer (Database)

* 1. Presentation Layer:-

Technologies: HTML5, CSS3, JavaScript, Bootstrap

Responsibilities:Display responsive user interface (UI)Handle user interactions and input validationProvide navigation across different sections (menu, reservations, reviews, contact, gallery)

* 1. Business Logic Layer Technologies: PHP, RESTful APIs Responsibilities:Process user requests

Implement business logic for menu management, reservations, reviews, and inquiries

Communicate with the database layerProvide data to the presentation layer via APIs

* 1. Data LayerTechnologies: MySQL

Responsibilities:Store and manage data related to users, menu items, reservations, reviews, and inquiries

Ensure data integrity and security

Provide data retrieval and manipulation functions3. Component Design

* 1. User Registration and AuthenticationComponents:Registration Form

Login Form Password Recovery

Data Flow:User submits registration/login detailsFrontend validates input

Data sent to backend via RESTful API

Backend processes request, interacts with the database, and returns response

* 1. Menu Management Components:

Menu Display Page

Menu Item CRUD (Create, Read, Update, Delete) for admin

Data Flow:Admin adds/updates/deletes menu items through CMSBackend processes and updates the database Frontend fetches and displays updated menu data

* 1. Online Reservations Components:

Reservation Form Reservation Management Dashboard for admin Data Flow:User submits reservation details

Frontend validates input Data sent to backend via API

Backend stores reservation data in the database and sends confirmation to user

* 1. Customer Reviews:- Components:Review Submission Form Review Display Section Review Moderation for admin

Data Flow:User submits review and rating Frontend validates input

Data sent to backend via API Backend stores review in database

Admin moderates and approves reviews for display

* 1. Contact and Inquiry Form Components:Contact Form

Inquiry Management Dashboard for admin Data Flow:User submits inquiry

Frontend validates input Data sent to backend via API

Backend stores inquiry data and notifies admin via email

Photo Gallery

Components: Gallery Display Page

Image Upload and Management for admin Data Flow:Admin uploads images through CMS Backend stores image data in database

Frontend fetches and displays images in gallery

Database Design Schema Overview

Users Tableuser\_id (Primary Key)

Name emailpasswordphone\_numberrole (customer/admin)Menu Items Tableitem\_id (Primary Key)namedescriptionpricecategoryavailabilityimage\_urlReservation s Tablereservation\_id (Primary Key)user\_id (Foreign Key)reservation\_datereservation\_timenumber\_of\_guestsspecial\_req

uestsstatusReviews Tablereview\_id (Primary Key)user\_id (Foreign Key)ratingcommentcreated\_atInquiries Tableinquiry\_id (Primary Key)nameemailphone\_numbermessagesubmitted\_atGallery Tableimage\_id (Primary Key)image\_urlcaptioncategory

4.2 Relationships One-to-Many: Users to Reservations One-to-Many: Users to Reviews

5. Interface Design

User Interfaces Home Page

Welcome message, featured dishes, navigation menu Menu Page

Categorized list of menu items with images and descriptions Reservation Page

Form for making reservations Reviews Page

Display of customer reviews and form for submitting new reviews Contact Page

Contact form and restaurant contact details Gallery Page

Photo gallery with categorized images

Admin Interfaces Dashboard

Overview of recent activities, reservations, and inquiries Menu Management

Interface for adding, updating, and deleting menu items

Reservation Management:- Calendar and list view of reservations with status updates

Review Moderation:- List of submitted reviews with options to approve or rejectInquiry Management

List of customer inquiries with response tracking

Gallery Management Interface for uploading and categorizing images6. Security Design

Authentication and Authorization

Secure login and registration system with encrypted passwords Role-based access control to restrict access to admin functionalities

Data Protection:- Data encryption for sensitive information in transit and at rest

Regular security audits and updates to address vulnerabilities

Backup and Recovery:- Regular backups of the database Disaster recovery plan to restore data in case of system failure

Performance Considerations:-

load Balancing:- Use of load balancers to distribute traffic evenly across servers

Caching Implement caching strategies for frequently accessed data to reduce server load and improve response times

Optimization:- Optimize images and code to ensure fast loading timesMinimize HTTP requests and use content delivery networks (CDNs)

|  |  |  |  |
| --- | --- | --- | --- |
| **User Interface Design**  The user interface (UI) design aims to create a visually appealing, intuitive, and user-friendly experience for both customers and administrators. This section outlines the UI design for various pages and components of the responsive restaurant website.  Design Principles:-  A Responsiveness: Ensure the UI adapts to different screen sizes (desktop, tablet, mobile).Usability: Provide an intuitive navigation structure and clear visual hierarchy.Accessibility: Adhere to Web Content Accessibility Guidelines (WCAG) to make the site accessible to all users.Consistency: Maintain a consistent look and feel across all pages and components.3. Wireframes and Mockups  Home PageElements:Header: Logo, navigation menu (Home, Menu, Reservations, Reviews, Contact, Gallery), search bar.Hero Section: Featured image or slideshow with welcome message and call-to-  action button (e.g., “Make a Reservation”).Featured Dishes: Display a few highlighted menu items with images, names, and brief descriptions.About Us: Brief introduction to the restaurant.Footer: Contact information, social media links, newsletter signup, and quick links to important pages.Wireframe:  | Logo | Home | Menu | Reservations | Reviews | Contact | | | |  |
| | | Hero Section with Image/Slideshow | | |
| | | Featured Dishes Section | |  |
| | | About Us Section | |  |
| | Contact Info | Social Media Links | Newsletter Signup | | | |
| **Page |** | | |

|  |  |
| --- | --- |
| 3.2 Menu PageElements:Header: Same as Home Page.Menu Categories: Tabs or dropdown to filter by categories (e.g., Appetizers, Main Courses, Desserts).Menu Items: List of items with images, names, descriptions, and prices.Footer: Same as Home Page.Wireframe:  | Logo | Home | Menu | Reservations | Reviews | Contact | |  |
| | Menu Categories Tabs/Dropdown (e.g., Appetizers) | |
| | Image | Name | Description | Price | Add to Cart |  | Image | Name | Description | Price | Add to Cart |  | Image | Name | Description | Price | Add to Cart | |
| | Contact Info | Social Media Links | Newsletter Signup | |
| 3.3 Reservation Page:-  Elements:Header: Same as Home Page.Reservation Form: Fields for reservation date, time, number of guests, special requests, and submit button.Confirmation Message: Display after form submission.Footer: Same as Home Page.Wireframe:  | Logo | Home | Menu | Reservations | Reviews | Contact | |
| | Reservation Form Section |  | Date | Time | Number of Guests | Special Requests |  | Submit Button | |
| | Contact Info | Social Media Links | Newsletter Signup | |
| 3.4 Reviews Page Elements:Header: Same as Home Page.Review  **Page |** |

|  |  |
| --- | --- |
| Submission Form: Fields for rating (1-5 stars), comment, and submit button.Reviews List: Display of existing reviews with rating, comment, and date.Footer: Same as Home Page.Wireframe:  | Logo | Home | Menu | Reservations | Reviews | Contact | |  |
| | Review Submission Form |  | Rating (Stars) | Comment Box | Submit Button | |
| | Reviews List Section |  | Rating | Comment | Date |  | Rating | Comment | Date | |
| | Contact Info | Social Media Links | Newsletter Signup | |
| 3.5 Contact Page Elements:Header: Same as Home Page.Contact Form: Fields for name, email, phone number (optional), message, and submit button.Contact Information: Restaurant address, phone number, email.Footer: Same as Home Page.Wireframe:  | Logo | Home | Menu | Reservations | Reviews | Contact | |
| | Contact Form Section |  | Name | Email | Phone (Optional) | Message Box |  | Submit Button | |
| | Restaurant Contact Information |  | Address | Phone Number | Email | |
| | Contact Info | Social Media Links | Newsletter Signup | |
| **Page |** |

|  |  |
| --- | --- |
| 3.6 Gallery Page Elements:Header: Same as Home Page.Gallery: Grid layout of images with optional captions.Footer: Same as Home Page.Wireframe:  | Logo | Home | Menu | Reservations | Reviews | Contact | |  |
| | Gallery Grid Layout |  | Image | Image | Image | Image | Image | Image |  | Image | Image | Image | Image | Image | Image | |
| | Contact Info | Social Media Links | Newsletter Signup | |
| 4. Admin Interface Design  Admin Dashboard Elements:Navigation Menu: Links to different admin sections (Dashboard, Menu Management, Reservations, Reviews, Inquiries, Gallery).Overview: Summary of recent activities, pending tasks, and quick stats.Footer: Admin-specific footer with links to admin resources.Wireframe:  | Dashboard | Menu Management | Reservations | Reviews | |
| | Overview of Recent Activities |  | Quick Stats | Pending Tasks | Notifications | |
| | Admin Resources Links | |
| Menu Management Elements:Menu List: List of existing menu items with options to edit, delete, or add new items.Add/Edit Form: Form for adding or editing menu items, including name, description, price,  **Page |** |

|  |  |
| --- | --- |
| category, and image upload.Footer: Admin-specific footer. Wireframe:  | Dashboard | Menu Management | Reservations | Reviews | |  |
| | Menu Items List Section |  | Item Name | Category | Price | Edit | Delete |  | Item Name | Category | Price | Edit | Delete | |
| | Add/Edit Menu Item Form Section |  | Name | Description | Price | Category | Image Upload |  | Save Button | |
| | Admin Resources Links | |
| 5. Style Guide  Color SchemePrimary Color: #2c3e50 (dark blue)Secondary Color: #e74c3c (red)Accent Color: #f1c40f (yellow)Background Color: #ecf0f1 (light grey)Text Color: #2c3e50 (dark blue) and #34495e (grey)5.2 TypographyPrimary Font: Open Sans (for body text)Secondary Font: Montserrat (for headings)Font Sizes:Headings: H1 (36px), H2 (30px), H3 (24px), H4 (20px), H5 (18px), H6  (16px)Body: 14px-16px5.3 Buttons and FormsButton Style: Rounded corners, primary and secondary color schemesForm Style: Clear labels, input fields with padding, and consistent spacing  **Page |** |

# Preliminary Product Descriptions

The responsive restaurant website is designed to enhance the online presence of a restaurant, providing customers with an engaging, user-friendly platform to explore the menu, make reservations, submit reviews, view the gallery, and contact the restaurant. The website is also equipped with an admin interface for efficient management of menu items, reservations, reviews, inquiries, and gallery images.

2. Key Features

Customer-Facing Features

Home Page Hero Section: A visually appealing introduction with featured images and a call-to-action button.Featured Dishes: Highlighted menu items to attract customer interest.About Us: Brief information about the restaurant’s history, mission, and values.Footer: Contains contact information, social media links, and a newsletter signup form.Menu Page

Categorized Menu: A well-organized list of menu items, categorized by type (e.g., appetizers, main courses, desserts).

Item Details: Each item displays a name, description, price, and image.Reservation Page

Reservation Form: Allows customers to book a table by selecting a date, time, number of guests, and entering any special requests.

Confirmation Message: Displays a confirmation after a successful

reservation.Reviews Page

Review Submission Form: Customers can submit their ratings and comments.Review Display: Displays a list of approved reviews with ratings and comments.

Contact Page Contact Form: Fields for name, email, phone number (optional), and message.

Contact Information: Includes the restaurant’s address, phone number, and email.Gallery PageImage Grid: Displays a gallery of images showcasing the restaurant, dishes, and events, organized in a grid layout.

Admin Interface Features Admin Dashboard

Overview: Summary of recent activities, including new reservations, inquiries, and reviews.Quick Stats: Displays key metrics such as total reservations, reviews, and inquiries.Menu Management

Menu List: Allows admin to view, edit, delete, or add new menu items.Add/Edit Form: A form for adding or editing menu items, including fields for name, description, price, category, and image upload.

Reservation Management Reservation List: Displays all reservations with options to update status or cancel.

Calendar View: Provides a calendar interface to view reservations by date.Review Moderation

Review List: Shows submitted reviews with options to approve, reject, or delete.Inquiry Management

Inquiry List: Displays customer inquiries with response

tracking.Gallery Management

Image Upload: Allows admin to upload and categorize images for the gallery.Image List: Displays all uploaded images with options to edit or delete.

Technical Specifications Frontend Technologies: HTML5, CSS3, JavaScript, Bootstrap

Backend Technologies: PHP, MySQLHosting: Linux-based serversAnalytics and SEO: Integration with Google Analytics and SEO tools

User Roles CustomerAccess: View menu, make reservations, submit reviews, contact the restaurant, and browse the gallery.

Permissions: No administrative permissions.Admin

Access: Full access to the admin dashboard and management features.

Permissions: Can add, edit, and delete menu items, manage reservations, moderate reviews, respond to inquiries, and upload/manage gallery images.

Benefits:- Enhanced Customer Experience: Provides a modern, easy-to-navigate website that meets customer expectations for online services.

Operational Efficiency: Streamlines reservation management, menu updates, and customer interactions.

Increased Visibility: Improves online presence, making it easier for potential customers to discover the restaurant.

Customer Engagement: Encourages customer reviews and feedback, helping to build a loyal customer base.

Brand Image: Showcases the restaurant’s offerings and ambiance, enhancing the brand’s image.

# Project Category

Web Development and E-Commerce

1. Introduction:- This project falls under the category of Web Development and E-Commerce, focusing on creating a responsive and user-friendly website for a restaurant. The project leverages modern web technologies to enhance the digital presence of the restaurant, streamline operations, and improve customer engagement
2. Justification for Category:-

Web Development:- Frontend Development: Involves creating an intuitive and responsive user interface using HTML5, CSS3, JavaScript, and Bootstrap. The focus is on delivering a seamless experience across various devices, including desktops, tablets, and mobile phones.Backend Development: Utilizes PHP for server-side scripting and MySQL for database management. This ensures robust handling of user data, reservations, and content management functionalities.

E-Commerce Online Reservations: The website provides a platform for customers to make table reservations online, integrating e-commerce principles into the restaurant industry.Menu Management: Offers digital access to the restaurant’s menu, allowing customers to browse and make

informed choices before visiting or placing an order.Customer Reviews: Facilitates the collection and display of customer reviews, which are crucial for building trust and enhancing the restaurant’s reputation.

Key Features Relevant to Category:-

Web Development Responsive Design: Ensures the website adapts to various screen sizes and devices, enhancing user experience.User Interface (UI): Focuses on an attractive and easy- to-navigate design, incorporating modern UI principles.Content Management System (CMS): Enables administrators to update menu items, manage reservations, and moderate reviews without needing technical expertise.

E-Commerce Reservation System: Allows customers to book tables online, improving convenience and operational efficiency.Digital Menu: Provides an online version of the restaurant’s menu, complete with images and descriptions, enhancing customer engagement.

Review System: Collects and displays customer feedback, aiding in reputation management and marketing.

Importance of the Project:-

Enhanced Customer Experience: Provides a digital platform that meets modern customer expectations, offering convenience and accessibility.

Operational Efficiency: Automates and streamlines processes such as reservations and menu management, reducing the workload for restaurant staff.

Market Competitiveness: Establishes a strong online presence, essential for staying competitive in the digital age.

Brand Visibility: Improves search engine visibility and customer reach through a well-designed and SEO-optimized website.

# Implementation Methodology

The implementation phase involves translating the system design into a fully functional website.

This phase includes setting up the development environment, coding the frontend and backend components, integrating the database, testing the system, and deploying the website.

Development Environment Setup Tools and Technologies

Frontend: HTML5, CSS3, JavaScript, BootstrapBackend: PHPDatabase: MySQLVersion Control: Git and GitHubDevelopment Environment: Apache Server (XAMPP or LAMP/WAMP stack)IDE: Visual Studio Code or any preferred text editor

Initial SetupInstall Development Environment:Set up XAMPP (for Windows) or LAMP (for Linux) to create a local server.Install MySQL for database management.

Version Control:Initialize a Git repository.Create a GitHub repository for remote version control and collaboration.

Project Structure: Create directories for frontend (HTML, CSS, JS), backend (PHP scripts), and database (SQL scripts).

Frontend Implementation

HTML Structure Home Page (index.html):Header, hero section, featured dishes, about us, and footer.Menu Page (menu.html):Header, categorized menu items, and footer.

Reservation Page (reservation.html):Header, reservation form, and footer. Reviews Page (reviews.html):Header, review submission form, reviews list, and footer.

Contact Page (contact.html):Header, contact form, contact information, and footer.

Gallery Page (gallery.html): Header, image grid, and footer. CSS Styling

Responsive Design: Use media queries to ensure the website is responsive. Utilize Bootstrap classes for a grid layout and responsive components.

Styling:Define color schemes, typography, and spacing.Style headers, buttons, forms, and other UI elements for consistency. JavaScript Functionality

Form Validation:Implement client-side validation for forms (registration, login, reservation, review, contact).

Interactive Elements:Add interactivity to the menu categories, reservation calendar, and image gallery.

AJAX Requests:Use AJAX for asynchronous data fetching and form submissions to enhance user experience.

Backend IImplementation Database Design

Database Schema:Create tables for users, menu items, reservations, reviews, inquiries, and gallery images.

Define primary and foreign keys to establish relationships between tables.

PHP Scripts:-

User Authentication:register.php: Handles user registration and inserts data into the users table.login.

php: Validates user credentials and starts a session.

logout.php: Ends the user session.

Menu Management: add\_menu\_item.php, edit\_menu\_item.php, delete\_menu\_item.

php: Scripts for CRUD operations on menu items. fetch\_menu\_items.

php: Retrieves menu items for display on the frontend.

Reservation Management: make\_reservation.php: Processes reservation form submissions and inserts data into the reservations table.

fetch\_reservations.php: Retrieves reservations for admin view.

Review Management:

1. submit\_review.php: Handles review submissions and inserts data into the reviews table.fetch\_reviews.php: Retrieves approved reviews for display.
2. Inquiry Management: submit\_inquiry.php: Handles contact form submissions and inserts data into the inquiries table.
3. fetch\_inquiries.php: Retrieves inquiries for admin response.
4. Gallery Management:upload\_image.php: Handles image uploads and inserts data into the gallery table.
5. fetch\_gallery\_images.php: Retrieves gallery images for display.
6. Integration:-

Connecting Frontend to Backend

API Endpoints: Create RESTful APIs using PHP scripts to handle requests from the frontend.

Use AJAX to communicate with these APIs for dynamic data fetching and form submissions..

Database Connectivity

Database Connection Script (db\_connect.php):Create a reusable script to establish a connection to the MySQL database.Include this script in all PHP files that interact with the database.

Testing:- unit Testing

PHPUnit: Use PHPUnit to write and execute unit tests for backend functionality.JavaScript Testing: Use frameworks like Jasmine or Mocha for testing JavaScript code.

Integration TestingTest Scenarios:Validate form submissions and data retrieval.Test user authentication and session management.Verify CRUD operations on menu items, reservations, reviews, and inquiries.

User Acceptance Testing (UAT)Beta Testing:Conduct beta testing with a group of users to gather feedback on usability and functionality.Make necessary adjustments based on feedback.

Deployment

Preparing for DeploymentOptimize Code:Minify CSS and JavaScript files.Optimize images for faster loading.Security Measures:Implement HTTPS using SSL certificates.Secure PHP scripts against common vulnerabilities like SQL injection and cross-site scripting (XSS).

Deployment StepsHosting Setup:Choose a reliable web hosting service.Set up the hosting environment and configure the

domain.Upload Files:Upload the frontend, backend, and database files to the server.Database Migration:Import the database schema and initial data into the production MySQL database.Configuration:Update configuration files (e.g., database connection settings) for the production environment.Testing:Perform a final round of testing on the live site to ensure everything works correctly.

Maintenance and Updates:-

Regular Updates:Continuously monitor the website for bugs and performance issues.Implement updates and new features based on user feedback and evolving requirements.

Backup and Recovery:Set up regular backups of the website and database.Create a disaster recovery plan to restore the site in case of data loss or server failure.

# Programming

* HTMl language:-

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial- scale=1.0">

<!--========== BOX ICONS ==========-->

<link href='https://cdn.jsdelivr.net/npm/boxicons@2.0.5/css/boxicons.mi n.css' rel='stylesheet'>

<!--========== CSS ==========-->

<link rel="stylesheet" href="assets/css/styles.css">

<title>Responsive website food</title>

</head>

<body>

<!--========== SCROLL TOP ==========-->

<a href="#" class="scrolltop" id="scroll-top">

<i class='bx bx-chevron-up scrolltop icon'></i>

</a>

<!--========== HEADER ==========-->

<header class="l-header" id="header">

<nav class="nav bd-container">

<a href="#" class="nav logo">Tasty</a>

<div class="nav menu" id="nav-menu">

<ul class="nav list">

<li class="nav item"><a href="#home" class="nav link active-link">Home</a></li>

<li class="nav item"><a href="#about" class="nav link">About</a></li>

<li class="nav item"><a href="#services" class="nav link">Services</a></li>

<li class="nav item"><a href="#menu" class="nav link">Menu</a></li>

<li class="nav item"><a href="#contact" class="nav link">Contact us</a></li>

<li><i class='bx bx-moon change-theme' id="theme- button"></i></li>

</ul>

</div>

<div class="nav toggle" id="nav-toggle">

<i class='bx bx-menu'></i>

</div>

</nav>

</header>

<main class="l-main">

<!--========== HOME ==========-->

<section class="home" id="home">

<div class="home container bd-container bd-grid">

<div class="home data">

<h1 class="home title">Tasty food</h1>

<h2 class="home subtitle">Try the best food of <br> the week.</h2>

<a href="#" class="button">View Menu</a>

</div>

<img src="assets/img/home.png" alt="" class="home img">

</div>

</section>

<!--========== ABOUT ==========-->

<section class="about section bd-container" id="about">

<div class="about container bd-grid">

<div class="about data">

<span class="section-subtitle about initial">About

us</span>

<h2 class="section-title about initial">We cook the

best <br> tasty food</h2>

<p class="about description">We cook the best food in the entire city, with excellent customer service, the best meals and at the best price, visit us.</p>

<a href="#" class="button">Explore history</a>

</div>

<img src="assets/img/about.jpg" alt="" class="about img">

</div>

</section>

<!--========== SERVICES ==========-->

<section class="services section bd-container" id="services">

<span class="section-subtitle">Offering</span>

<h2 class="section-title">Our amazing services</h2>

<div class="services container bd-grid">

<div class="services content">

<svg class="services img" [xmlns="ht](http://www.w3.org/2000/svg)tp://[www.w3.org/2000/svg](http://www.w3.org/2000/svg)">

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29.0838 35.6859 30.4987 37.168

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51.2136 42.6791 51.135 42.7541

51.0528C43.3853 50.3592 43.6952 49.4319 43.6075

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25.4807 45.8968 23.471 45.3205

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29.7764 40.648 30.1988 40.6688 30.6603L41.4795

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49.6829C22.9363 49.6799 22.9332 49.6767 22.9301

49.6736C22.6507 49.3829 22.5047

48.9892 22.5269 48.5867L23.4667 29.92C23.4816

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19.7891 16 19.2 16C18.6109

16 18.1333 16.4776 18.1333

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16.4776 22.9891 16 22.4 16Z"/>

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35.528 37.9553 37.2974C37.9553 37.8871 38.4334 38.3653 39.0232

38.3653C39.6129 38.3653 40.0911 37.8871 40.0911

37.2974C40.0911 36.7077 40.5692 36.2295 41.1589

36.2295C41.7487

36.2295 42.2268 35.7514 42.2268 35.1616C42.2268

34.5719 41.7487 34.0938 41.1589 34.0938Z"/>

<path d="M24.8292 36.0997C24.8287 36.0992 24.8283

36.0988 24.8277 36.0982C24.4105 35.6812 23.7342 35.6815

23.3172

36.0988C22.9002 36.516 22.9005 37.1923 23.3177

37.6093C23.7346 38.0263 23.7346 38.7023 23.3177

39.1193C22.9002

39.5358 22.8993 40.212 23.3159 40.6295C23.3161

40.6298 23.3164 40.6301 23.3167 40.6303C23.7334 41.0476

24.4097

41.048 24.8269 40.6311C24.8272 40.6309 24.8275

40.6306 24.8277 40.6303C26.0793 39.3797 26.0798 37.3513

24.8292

36.0997Z"/>

<path d="M50.7699 13.804C50.1802 13.804 49.702

14.2821 49.702 14.8718C49.702 15.4616 49.2239 15.9397 48.6342

15.9397C48.0444 15.9397 47.5663 16.4179 47.5663

17.0076C47.5663 17.5974 48.0444 18.0755 48.6342

18.0755C50.4035

18.0755 51.8378 16.6412 51.8378 14.8718C51.8378

14.2821 51.3597 13.804 50.7699 13.804Z"/>

</g>

<defs>

<clipPath id="clip0">

<rect width="64" height="64" fill="white"/>

</clipPath>

</defs>

</svg>

<h3 class="services title">Fast food</h3>

<p class="services description">We offer our clients excellent quality services for many years, with the best and delicious food in the city.</p>

</div>

<div class="services content">

<svg class="services img" [xmlns="ht](http://www.w3.org/2000/svg)tp://[www.w3.org/2000/svg](http://www.w3.org/2000/svg)">

<g clip-path="url(#clip0)">

<path d="M19.1978 49.6016C17.4308 49.6016 15.9981

51.0342 15.9981 52.8012C15.9981 54.5682 17.4308

56.0008 19.1978 56.0008C20.9648 56.0008 22.3974

54.5682 22.3974 52.8012C22.3974 51.0342 20.9648

49.6016 19.1978 49.6016ZM19.1978 53.8677C18.6088

53.8677 18.1312 53.3902 18.1312 52.8012C18.1312

52.2122 18.6088 51.7347 19.1978 51.7347C19.7868

51.7347 20.2643 52.2122 20.2643 52.8012C20.2643

53.3902 19.7868 53.8677 19.1978 53.8677Z"/>

<path d="M50.1275 49.6016C48.3605 49.6016 46.9279

51.0342 46.9279 52.8012C46.9279 54.5682 48.3605

56.0008 50.1275 56.0008C51.8945 56.0008 53.3271

54.5682 53.3271 52.8012C53.3271 51.0342 51.8945

49.6016 50.1275 49.6016ZM50.1275 53.8677C49.5385

53.8677 49.0609 53.3902 49.0609 52.8012C49.0609

52.2122 49.5385 51.7347 50.1275 51.7347C50.7165

51.7347 51.194 52.2122 51.194 52.8012C51.194

53.3902 50.7165 53.8677 50.1275 53.8677Z"/>

<path d="M3.19962 21.8715H5.3327V24.0045H3.19962V21.8715Z"/>

<path d="M0 26.1377H2.13308V28.2708H0V26.1377Z"/>

<path d="M52.2606 11.2061H58.6598V13.3391H52.2606V11.2061Z"/>

<path d="M47.9944 11.2061H50.1275V13.3391H47.9944V11.2061Z"/>

<path d="M34.1294 4.80676H44.7948V6.93985H34.1294V4.80676Z"/>

<path d="M29.8632 4.80676H31.9963V6.93985H29.8632V4.80676Z"/>

<path d="M63.9925 59.2005V57.0674H54.8842C55.7935 56.0607 56.3575 54.7906

56.495 53.4412L63.4593

49.461C63.5087 49.4266 63.5556 49.3886 63.5988

49.3469C63.6363 49.3214 63.6723 49.2928 63.7056

49.2626C63.7858 49.1777 63.8514 49.0798 63.8998

48.9735C63.905 48.9636 63.9123 48.9574 63.917

48.948C63.9655 48.8272 63.9915 48.6986 63.9936

48.5684C63.9936 48.5564 63.9998 48.547 63.9998

48.535V38.9362C63.9951 38.9049 63.9889 38.8742

63.9806 38.8435C63.9821 38.8159 63.9821 38.7877

63.9806 38.7601L61.8475 25.9616C61.8428 25.946

61.8371 25.9299 61.8308 25.9148C61.8308 25.9033

61.8308 25.8903 61.8308 25.8788L60.7643

21.6127C60.645 21.1367 60.2169 20.8034 59.7264

20.8049H46.7893C46.6446

20.2852 46.3696 19.8103 45.9905 19.4259L38.708

12.1435C38.1096 11.5414 37.2951 11.204 36.4457

11.2061H10.6654C10.0764 11.2061 9.59888 11.6836

9.59888

12.2726V16.5388H0V18.6719H9.59888V21.8715H7.4658V24.0046 H9.59888V26.1377H4.26617V28.2707H9.59888V37.8696C9.00989

37.8696 8.53234 38.3472 8.53234

38.9362V48.535C8.53234 48.5574 8.54432 48.5767 8.54536

48.6001C8.55161

48.6965 8.57088 48.7918 8.60264 48.8829C8.61254

48.9168 8.62451 48.9501 8.63805 48.9829C8.68805 49.0949

8.75679 49.1969 8.84168 49.285L12.8178

53.2611C12.9198 54.6749 13.4911 56.0149 14.441

57.0674H0V59.2005H63.9925ZM44.1016

50.6681H25.2236C25.0929

50.2984 24.9278 49.9411 24.731

49.6016H44.5943C44.3974 49.9411 44.2323 50.2984 44.1016

50.6681ZM25.597

52.8012H43.7282C43.7288 54.3776 44.3141 55.8977

45.3708 57.0674H23.9545C25.0111 55.8977 25.5965 54.3776

25.597 52.8012ZM45.8613 52.8012C45.8613 50.4452

47.7715 48.535 50.1275 48.535C52.4835 48.535 54.3937

50.4452 54.3937 52.8012C54.3937 55.1572 52.4835

57.0674 50.1275 57.0674C47.7715 57.0674 45.8613 55.1572

45.8613

52.8012ZM56.2898 51.0946C56.145 50.5723 55.9336

50.0703 55.6607 49.6016H58.9093L56.2898 51.0946ZM61.6662

37.8696H51.194V27.2042H59.8894L61.6662

37.8696ZM59.4269 25.0711H50.1275C49.5385 25.0711 49.0609

25.5487

49.0609 26.1377V38.9362C49.0609 39.5252 49.5385

40.0027 50.1275

40.0027H61.8595V42.1358H58.6598V44.2689H61.8595V47.4685H

53.6578C51.519

46.0463 48.736 46.0463 46.5972

47.4685H22.7281C20.5893 46.0463 17.8063 46.0463 15.6674

47.4685H10.6654V43.2023H14.9316V41.0692H10.6654V40.0027H

45.8613C46.4503 40.0027 46.9279

39.5252 46.9279 38.9362V22.938H58.8937L59.4269

25.0711ZM11.732

28.2707H20.2643V26.1377H11.732V24.0046H21.3308V21.8715H1

1.732V18.6719H17.0647V16.5388H11.732V13.3391H36.4457C36.7

285

13.3402 36.9993 13.4527 37.1998 13.6516L44.4823

20.9341C44.6828 21.1341 44.7948 21.4059 44.7948

21.6892V37.8696H11.732V28.2707ZM13.6646

49.6016C13.4766 49.9255 13.3177 50.2661 13.1901

50.6181L12.1736 49.6016H13.6646ZM14.9316

52.8012C14.9316 50.4452 16.8418 48.535 19.1978

48.535C21.5537 48.535 23.4639 50.4452 23.4639

52.8012C23.4639 55.1572 21.5537 57.0674 19.1978

57.0674C16.8418 57.0674 14.9316 55.1572 14.9316 52.8012Z"/>

</g>

<defs>

<clipPath id="clip0">

<rect width="64" height="64" fill="white"/>

</clipPath>

</defs>

</svg>

<h3 class="services title">Delivery</h3>

<p class="services description">We offer our clients excellent quality services for many years, with the best and delicious food in the city.</p>

</div>

</div>

</section>

<!--========== MENU ==========-->

<section class="menu section bd-container" id="menu">

<span class="section-subtitle">Special</span>

<h2 class="section-title">Menu of the week</h2>

<div class="menu container bd-grid">

<div class="menu content">

<img src="assets/img/plate1.png" alt="" class="menu img">

<h3 class="menu name">Barbecue salad</h3>

<span class="menu detail">Delicious dish</span>

<span class="menu preci">$22.00</span>

<a href="#" class="button menu button"><i class='bx bx-cart-alt'></i></a>

</div>

<div class="menu content">

<img src="assets/img/plate2.png" alt="" class="menu img">

<h3 class="menu name">Salad with fish</h3>

<span class="menu detail">Delicious dish</span>

<span class="menu preci">$12.00</span>

<a href="#" class="button menu button"><i class='bx bx-cart-alt'></i></a>

</div>

<div class="menu content">

<img src="assets/img/plate3.png" alt="" class="menu img">

<h3 class="menu name">Spinach salad</h3>

<span class="menu detail">Delicious dish</span>

<span class="menu preci">$9.50</span>

<a href="#" class="button menu button"><i class='bx bx-cart-alt'></i></a>

</div>

</div>

</section>

<!--===== APP =======-->

<section class="app section bd-container">

<div class="app container bd-grid">

<div class="app data">

<span class="section-subtitle app initial">App</span>

<h2 class="section-title app initial">App is aviable</h2>

<p class="app description">Find our application and download it, you can make reservations, food orders, see your deliveries on the way and much more.</p>

<div class="app stores">

<a href="#"><img src="assets/img/app1.png" alt="" class="app store"></a>

<a href="#"><img src="assets/img/app2.png" alt="" class="app store"></a>

</div>

</div>

<img src="assets/img/movil-app.png" alt="" class="app img">

</div>

</section>

<!--========== CONTACT US ==========-->

<section class="contact section bd-container" id="contact">

<div class="contact container bd-grid">

<div class="contact data">

<span class="section-subtitle contact initial">Let's talk</span>

<h2 class="section-title contact initial">Contact

us</h2>

<p class="contact description">If you want to reserve a

table in our restaurant, contact us and we will attend you quickly, with our 24/7 chat service.</p>

</div>

<div class="contact button">

<a href="#" class="button">Contact us now</a>

</div>

</div>

</section>

</main>

<!--========== FOOTER ==========-->

<footer class="footer section bd-container">

<div class="footer container bd-grid">

<div class="footer content">

<a href="#" class="footer logo">Tasty Food</a>

<span class="footer description">Restaurant</span>

<div>

<a href="#" class="footer social"><i class='bx bxl- facebook'></i></a>

<a href="#" class="footer social"><i class='bx bxl- instagram'></i></a>

<a href="#" class="footer social"><i class='bx bxl- twitter'></i></a>

</div>

</div>

<div class="footer content">

<h3 class="footer title">Services</h3>

<ul>

<li><a href="#" class="footer link">Delivery</a></li>

<li><a href="#" class="footer link">Pricing</a></li>

<li><a href="#" class="footer link">Fast food</a></li>

<li><a href="#" class="footer link">Reserve your spot</a></li>

</ul>

</div>

<div class="footer content">

<h3 class="footer title">Information</h3>

<ul>

<li><a href="#" class="footer link">Event</a></li>

<li><a href="#" class="footer link">Contact us</a></li>

<li><a href="#" class="footer link">Privacy policy</a></li>

<li><a href="#" class="footer link">Terms of services</a></li>

</ul>

</div>

<div class="footer content">

<h3 class="footer title">Adress</h3>

<ul>

<lisec-1 vaishali - ghaziabad</li>

<li>vaishali ghaziabad, india</li>

<li>999 - 888 - 777</li>

[<li>t](mailto:tastyfood@email.com)ast[yfood@ema](mailto:tastyfood@email.com)i[l.com</li>](mailto:tastyfood@email.com)

</ul>

</div>

</div>

<p class="footer copy">C#169; Ekta negi BCA 6th Semester

Major project. All right reserved</p>

</footer>

<!--========== SCROLL REVEAL ==========-->

<script src="https://unpkg.com/scrollreveal"></script>

<!--========== MAIN JS ==========-->

<script src="assets/js/main.js"></script>

</body>

</html>

* CSS:-

/\*===== GOOGLE FONTS =====\*/

@import [url("ht](https://fonts.googleapis.com/css2?family=Poppins%3Awght%40400%3B)t[ps://fonts.g](https://fonts.googleapis.com/css2?family=Poppins%3Awght%40400%3B)oog[leapis.com/css2?family=Poppins:wg](https://fonts.googleapis.com/css2?family=Poppins%3Awght%40400%3B)h[t@400;](https://fonts.googleapis.com/css2?family=Poppins%3Awght%40400%3B) 500;600Cdisplay=swap");

/\*===== VARIABLES CSS =====\*/

:root {

--header-height: 3rem;

/\*========== Colors ==========\*/

--first-color: #069C54;

--first-color-alt: #048654;

--title-color: #393939;

--text-color: #707070;

--text-color-light: #A6A6A6;

--body-color: #FBFEFD;

--container-color: #FFFFFF;

/\*========== Font and typography ==========\*/

--body-font: 'Poppins', sans-serif;

--biggest-font-size: 2.25rem;

--h1-font-size: 1.5rem;

--h2-font-size: 1.25rem;

--h3-font-size: 1rem;

--normal-font-size: .938rem;

--small-font-size: .813rem;

--smaller-font-size: .75rem;

/\*========== Font weight ==========\*/

--font-medium: 500;

--font-semi-bold: 600;

/\*========== Margenes ==========\*/

--mb-1: .5rem;

--mb-2: 1rem;

--mb-3: 1.5rem;

--mb-4: 2rem;

--mb-5: 2.5rem;

--mb-6: 3rem;

/\*========== z index ==========\*/

--z-tooltip: 10;

--z-fixed: 100;

}

@media screen and (min-width: 768px){

:root{

--biggest-font-size: 4rem;

--h1-font-size: 2.25rem;

--h2-font-size: 1.5rem;

--h3-font-size: 1.25rem;

--normal-font-size: 1rem;

--small-font-size: .875rem;

--smaller-font-size: .813rem;

}

}

/\*========== BASE ==========\*/

\*,::before,::after{

box-sizing: border-box;

}

html{

scroll-behavior: smooth;

}

/\*========== Variables Dark theme ==========\*/ body.dark-theme{

--title-color: #F1F3F2;

--text-color: #C7D1CC;

--body-color: #1D2521;

--container-color: #27302C;

}

/\*========== Button Dark/Light ==========\*/

.change-theme{ position: absolute; right: 1rem;

top: 1.8rem;

color: var(--text-color); font-size: 1rem; cursor: pointer;

}

body{

margin: var(--header-height) 0 0 0; font-family: var(--body-font);

font-size: var(--normal-font-size); background-color: var(--body-color); color: var(--text-color);

line-height: 1.6;

}

h1,h2,h3,p,ul{ margin: 0;

}

ul{

padding: 0;

list-style: none;

}

a{

text-decoration: none;

}

img{

max-width: 100%; height: auto;

}

/\*========== CLASS CSS ==========\*/

.section{

padding: 4rem 0 2rem;

}

.section-title, .section-subtitle{ text-align: center;

}

.section-title{

font-size: var(--h1-font-size); color: var(--title-color); margin-bottom: var(--mb-3);

}

.section-subtitle{ display: block;

color: var(--first-color);

font-weight: var(--font-medium); margin-bottom: var(--mb-1);

}

/\*========== LAYOUT ==========\*/

.bd-container{

max-width: 960px;

width: calc(100% - 2rem); margin-left: var(--mb-2);

margin-right: var(--mb-2);

}

.bd-grid{ display: grid; gap: 1.5rem;

}

.l-header{

width: 100%; position: fixed; top: 0;

left: 0;

z-index: var(--z-fixed);

background-color: var(--body-color);

}

/\*========== NAV ==========\*/

.nav{

max-width: 1024px;

height: var(--header-height); display: flex;

justify-content: space-between; align-items: center;

}

@media screen and (max-width: 768px){

.nav menu{ position: fixed; top: -100%;

left: 0;

width: 100%;

padding: 1.5rem 0 1rem; text-align: center;

background-color: var(--body-color); transition: .4s;

box-shadow: 0 4px 4px rgba(0,0,0,.1); border-radius: 0 0 1rem 1rem;

z-index: var(--z-fixed);

}

}

.nav item{

margin-bottom: var(--mb-2);

}

.nav link, .nav logo, .nav toggle{ color: var(--text-color);

font-weight: var(--font-medium);

}

.nav logo:hover{ color: var(--first-color);

}

.nav link{ transition: .3s;

}

.nav link:hover{

color: var(--first-color);

}

.nav toggle{

font-size: 1.3rem; cursor: pointer;

}

/\* Show menu \*/

.show-menu{

top: var(--header-height);

}

/\* Active menu \*/

.active-link{

color: var(--first-color);

}

/\* Change background header \*/

.scroll-header{

box-shadow: 0 2px 4px rgba(0,0,0,.1);

}

/\* Scroll top \*/

.scrolltop{ position: fixed; right: 1rem; bottom: -20%; display: flex;

justify-content: center; align-items: center; padding: .3rem;

background: rgba(6,156,84,.5); border-radius: .4rem;

z-index: var(--z-tooltip); transition: .4s; visibility: hidden;

}

.scrolltop:hover{

background-color: var(--first-color-alt);

}

.scrolltop icon{ font-size: 1.8rem;

color: var(--body-color);

}

/\* Show scrolltop \*/

.show-scroll{ visibility: visible; bottom: 1.5rem;

}

/\*========== HOME ==========\*/

.home container{

height: calc(100vh - var(--header-height)); align-content: center;

}

.home title{

font-size: var(--biggest-font-size); color: var(--first-color);

margin-bottom: var(--mb-1);

}

.home subtitle{

font-size: var(--h1-font-size); color: var(--title-color); margin-bottom: var(--mb-4);

}

.home img{ width: 300px;

justify-self: center;

}

/\*========== BUTTONS ==========\*/

.button{

display: inline-block;

background-color: var(--first-color); color: #FFF;

padding: .75rem 1rem; border-radius: .5rem; transition: .3s;

}

.button:hover{

background-color: var(--first-color-alt);

}

/\*========== ABOUT ==========\*/

.about data{

text-align: center;

}

.about description{

margin-bottom: var(--mb-3);

}

.about img{ width: 280px;

border-radius: .5rem; justify-self: center;

}

/\*========== SERVICES ==========\*/

.services container{ row-gap: 2.5rem;

grid-template-columns: repeat(auto-fit, minmax(220px, 1fr));

}

.services content{ text-align: center;

}

.services img{ width: 64px; height: 64px;

fill: var(--first-color);

margin-bottom: var(--mb-2);

}

.services title{

font-size: var(--h3-font-size); color: var(--title-color); margin-bottom: var(--mb-1);

}

.services description{ padding: 0 1.5rem;

}

/\*========== MENU ==========\*/

.menu container{

grid-template-columns: repeat(2, 1fr); justify-content: center;

}

.menu content{ position: relative;

display: flex;

flex-direction: column;

background-color: var(--container-color); border-radius: .5rem;

box-shadow: 0 2px 4px rgba(3,74,40,.15); padding: .75rem;

}

.menu img{ width: 100px; align-self: center;

margin-bottom: var(--mb-2);

}

.menu name, .menu preci{

font-weight: var(--font-semi-bold); color: var(--title-color);

}

.menu name{

font-size: var(--normal-font-size);

}

.menu detail, .menu preci{ font-size: var(--small-font-size);

}

.menu detail{

margin-bottom: var(--mb-1);

}

.menu button{

position: absolute; bottom: 0;

right: 0; display: flex;

padding: .625rem .813rem; border-radius: .5rem 0 .5rem 0;

}

/\*========== APP ==========\*/

.app data{

text-align: center;

}

.app description{

margin-bottom: var(--mb-5);

}

.app stores{

margin-bottom: var(--mb-4);

}

.app store{ width: 120px;

margin: 0 var(--mb-1);

}

.app img{ width: 230px;

justify-self: center;

}

/\*========== CONTACT ==========\*/

.contact container{ text-align: center;

}

.contact description{ margin-bottom: var(--mb-3);

}

/\*========== FOOTER ==========\*/

.footer container{

grid-template-columns: repeat(auto-fit, minmax(220px, 1fr)); row-gap: 2rem;

}

.footer logo{

font-size: var(--h3-font-size); color: var(--first-color);

font-weight: var(--font-semi-bold);

}

.footer description{ display: block;

font-size: var(--small-font-size); margin: .25rem 0 var(--mb-3);

}

.footer social{ font-size: 1.5rem;

color: var(--title-color); margin-right: var(--mb-2);

}

.footer title{

font-size: var(--h2-font-size); color: var(--title-color); margin-bottom: var(--mb-2);

}

.footer link{

display: inline-block; color: var(--text-color);

margin-bottom: var(--mb-1);

}

.footer link:hover{ color: var(--first-color);

}

.footer copy{ text-align: center;

font-size: var(--small-font-size); color: var(--text-color-light); margin-top: 3.5rem;

}

/\*========== MEDIA QUERIES ==========\*/

@media screen and (min-width: 576px){

.home container,

.about container,

.app container{

grid-template-columns: repeat(2,1fr); align-items: center;

}

.about data, .about initial,

.app data, .app initial,

.contact container, .contact initial{ text-align: initial;

}

.about img, .app img{ width: 380px;

order: -1;

}

.contact container{

grid-template-columns: 1.75fr 1fr; align-items: center;

}

.contact button{ justify-self: center;

}

}

@media screen and (min-width: 768px){ body{

margin: 0;

}

.section{

padding-top: 8rem;

}

.nav{

height: calc(var(--header-height) + 1.5rem);

}

.nav list{ display: flex;

}

.nav item{

margin-left: var(--mb-5); margin-bottom: 0;

}

.nav toggle{ display: none;

}

.change-theme{ position: initial;

margin-left: var(--mb-2);

}

.home container{ height: 100vh;

justify-items: center;

}

.services container,

.menu container{ margin-top: var(--mb-6);

}

.menu container{

grid-template-columns: repeat(3, 210px); column-gap: 4rem;

}

.menu content{ padding: 1.5rem;

}

.menu img{ width: 130px;

}

.app store{

margin: 0 var(--mb-1) 0 0;

}

}

@media screen and (min-width: 960px){

.bd-container{ margin-left: auto; margin-right: auto;

}

.home img{ width: 500px;

}

.about container,

.app container{ column-gap: 7rem;

}

}

/\* For tall screens on mobiles y desktop\*/ @media screen and (min-height: 721px) {

.home container { height: 640px;

}

}

* JavaScript:-

/\*==================== SHOW MENU ====================\*/

Const showMenu = (toggleId, navId) =>{

Const toggle = document.getElementById(toggleId), Nav = document.getElementById(navId)

// Validate that variables exist If(toggle CC nav){

Toggle.addEventListener(‘click’, ()=>{

// We add the show-menu class to the div tag with the nav menu class

Nav.classList.toggle(‘show-menu’)

})

}

}

showMenu(‘nav-toggle’,’nav-menu’)

/\*==================== REMOVE MENU MOBILE

====================\*/

Const navLink = document.querySelectorAll(‘.nav link’)

Function linkAction(){

Const navMenu = document.getElementById(‘nav-menu’)

// When we click on each nav link, we remove the show-menu class

navMenu.classList.remove(‘show-menu’)

}

navLink.forEach(n => n.addEventListener(‘click’, linkAction))

/\*==================== SCROLL SECTIONS ACTIVE LINK

====================\*/

Const sections = document.querySelectorAll(‘section[id]’)

Function scrollActive(){

Const scrollY = window.pageYOffset

Sections.forEach(current =>{

Const sectionHeight = current.offsetHeight Const sectionTop = current.offsetTop – 50; sectionId = current.getAttribute(‘id’)

if(scrollY > sectionTop CC scrollY <= sectionTop + sectionHeight){

document.querySelector(‘.nav menu a[href\*=’ + sectionId + ‘]’).classList.add(‘active-link’)

}else{

Document.querySelector(‘.nav menu a[href\*=’ + sectionId + ‘]’).classList.remove(‘active-link’)

}

})

}

Window.addEventListener(‘scroll’, scrollActive)

/\*==================== CHANGE BACKGROUND HEADER

====================\*/

Function scrollHeader(){

Const nav = document.getElementById(‘header’)

// When the scroll is greater than 200 viewport height, add the scroll-header class to the header tag

If(this.scrollY >= 200) nav.classList.add(‘scroll-header’); else nav.classList.remove(‘scroll-header’)

}

Window.addEventListener(‘scroll’, scrollHeader)

/\*==================== SHOW SCROLL TOP

====================\*/

Function scrollTop(){

Const scrollTop = document.getElementById(‘scroll-top’);

// When the scroll is higher than 560 viewport height, add the show-scroll class to the a tag with the scroll-top class

If(this.scrollY >= 560) scrollTop.classList.add(‘show-scroll’); else scrollTop.classList.remove(‘show-scroll’)

}

Window.addEventListener(‘scroll’, scrollTop)

/\*==================== DARK LIGHT THEME

====================\*/

Const themeButton = document.getElementById(‘theme-button’) Const darkTheme = ‘dark-theme’

Const iconTheme = ‘bx-sun’

// Previously selected topic (if user selected)

Const selectedTheme = localStorage.getItem(‘selected-theme’) Const selectedIcon = localStorage.getItem(‘selected-icon’)

// We obtain the current theme that the interface has by validating the dark-theme class

Const getCurrentTheme = () =>

document.body.classList.contains(darkTheme) ? ‘dark’ : ‘light’

Const getCurrentIcon = () =>

themeButton.classList.contains(iconTheme) ? ‘bx-moon’ : ‘bx-sun’

// We validate if the user previously chose a topic If (selectedTheme) {

// If the validation is fulfilled, we ask what the issue was to know if we activated or deactivated the dark

Document.body.classList[selectedTheme === ‘dark’ ? ‘add’ : ‘remove’](darkTheme)

themeButton.classList[selectedIcon === ‘bx-moon’ ? ‘add’ : ‘remove’](iconTheme)

}

// Activate / deactivate the theme manually with the button

themeButton.addEventListener(‘click’, () => {

// Add or remove the dark / icon theme Document.body.classList.toggle(darkTheme)

themeButton.classList.toggle(iconTheme)

// We save the theme and the current icon that the user chose

localStorage.setItem(‘selected-theme’, getCurrentTheme()) localStorage.setItem(‘selected-icon’, getCurrentIcon())

})

/\*==================== SCROLL REVEAL ANIMATION

====================\*/

Const sr = ScrollReveal({

Origin: ‘top’,

Distance: ‘30px’, Duration: 2000, Reset: true

});

Sr.reveal(`.home data, .home img,

.about data, .about img,

.services content, .menu content,

.app data, .app img,

.contact data, .contact button,

.footer content`, { Interval: 200

})

# Tools and platform- software requirements

Development Tools

Integrated Development Environment (IDE)Visual Studio Code: Description: A lightweight, versatile code editor with support for various programming languages and extensions.

Use: Writing and editing code for both frontend and backend development.

Version ControlGit: Description: A distributed version control system for tracking changes in source code during software development. Use: Managing source code changes and collaboration among team members.

GitHub:Description: A web-based platform for version control and collaborative development using Git.Use: Hosting the repository, issue tracking, and team collaboration.

Frontend Technologies HTML5:Description: The standard markup language for creating web pages.Use: Structuring the content of the website.CSS3:Description: The latest version of the Cascading Style Sheets language used for describing the presentation of web pages.Use: Styling the website, including layout, colors, and fonts.

JavaScript:Description: A high-level programming language used for creating dynamic and interactive effects within web browsers.Use: Adding interactivity and functionality to the website.

Bootstrap:Description: A popular front-end framework for

developing responsive and mobile-first websites.Use: Simplifying the design and development of responsive web pages.

Backend TechnologiesPHP:Description: A popular server-side scripting language designed for web development.Use: Handling server-side logic, database interactions, and API creation.

MySQL:Description: An open-source relational database

management system.Use: Storing and managing the website’s data,

such as user information, menu items, reservations, and reviews.

Database Management php MyAdmin:Description: A free software tool written in PHP, intended to handle the administration of MySQL over the Web.Use: Managing MySQL databases through a web interface.

Server EnvironmentXAMPP:Description: A free and open-source cross-platform web server solution stack package developed by Apache Friends.Components: Apache, MySQL, PHP, and Perl.Use: Setting up a local development environment for testing and development.

Hosting PlatformWeb Hosting Service:Description: A service that allows individuals and organizations to make their website accessible via the World Wide Web.Recommended Providers: Bluehost, SiteGround, or any reliable hosting service supporting PHP and MySQL.Use: Deploying the website to make it publicly accessible.

Testing ToolsPHPUnit:Description: A programmer-oriented testing framework for PHP.Use: Writing and running unit tests for backend code.Selenium:Description: A portable framework for testing web

applications.Use: Automated testing of the web interface across different browsers.

Design ToolsAdobe XD / Figma:Description: Vector-based tools for designing and prototyping user experiences for web and mobile apps.Use: Creating wireframes, mockups, and prototypes of the website’s UI.

Analytics and SEO ToolsGoogle Analytics:Description: A web analytics service offered by Google that tracks and reports website traffic.Use: Monitoring website performance and user behavior.Google Search Console:Description: A web service by Google which allows webmasters to check indexing status and optimize visibility of their websites.Use: Managing the website’s search engine optimization (SEO) and troubleshooting issues.

Communication and Collaboration ToolsSlack:Description: A messaging app for teams that brings all communication together in one place.Use: Facilitating communication and collaboration among development team members.Trello:Description: A web- based list-making application.Use: Project management and task tracking for the development process.

# Tools and platform:- hardware requirements

Development Machines

Developer Workstations Minimum Specifications:Processor: Intel Core i5 or AMD Ryzen 5RAM: 8 GBStorage: 256 GB SSDOperating System: Windows 10, macOS, or Linux (Ubuntu preferred)Graphics: Integrated graphics sufficient for web development tasksNetwork: Stable internet connection for accessing online resources, version control, and collaboration toolsRecommended Specifications:Processor: Intel Core i7 or AMD Ryzen 7RAM: 16 GB or higherStorage: 512 GB SSD or higherOperating System: Windows 10/11, macOS, or Linux (Ubuntu preferred)Graphics: Dedicated graphics card for better performance in design toolsNetwork: High- speed internet connection for efficient workflow and collaboration

Server Hardware

Local Development Server (Optional)Purpose: For setting up a local development environment, especially useful for larger teams.Specifications:Processor: Intel Xeon or equivalentRAM: 16 GBStorage: 1 TB HDD or 512 GB SSDNetwork: Gigabit Ethernet

Production ServerPurpose: Hosting the live website.Specifications:Processor: Intel Xeon or equivalent server- grade processorRAM: 16 GB or higherStorage: 512 GB SSD or higher for faster read/write speedsNetwork: High-speed internet connection with a reliable hosting providerBackup: External backup solution or cloud backup service for data redundancy

Testing Devices

Desktop ComputersSpecifications:Windows PC:Processor: Intel Core i5/i7RAM: 8 GBStorage: 256 GB SSDOperating System: Windows 10/11Mac:Processor: Apple M1 or Intel Core i5/i7RAM: 8 GBStorage: 256 GB SSDOperating System: macOS Big Sur or later

Mobile Devices iOS Devices:Specifications:iPhone: Models from iPhone 8 and lateriPad: Models from iPad Air 2 and laterOperating System: iOS 14 and laterAndroid Devices:Specifications:Phones/Tablets: Various models from major manufacturers like Samsung, Google, and OnePlusOperating System: Android 9 (Pie) and later

TabletsSpecifications:iPad:Processor: Apple A12 Bionic or newerRAM: 3 GB or higherOperating System: iPadOS 14 and laterAndroid Tablets:Processor: Qualcomm Snapdragon 660 or equivalentRAM: 3 GB or higherOperating System: Android 9 (Pie) and later4. Networking EquipmentRouter:Type: Dual-band router supporting 802.11ac or 802.11ax (Wi-Fi 6)Speed: Minimum of 1 Gbps for wired connections and high-speed wireless connectivitySwitch (Optional for larger teams):Type: Managed or unmanaged gigabit switchPorts: Sufficient ports to connect all development machines and servers5. Backup and Storage SolutionsExternal Hard Drives:Specifications: 1 TB or higher, USB

3.0 or Thunderbolt interface for fast transfer speedsNetwork Attached Storage (NAS) (Optional):Specifications: 4-bay or higher, RAID support, gigabit Ethernet connection6. Additional PeripheralsMonitors:Specifications: 24-inch or larger, Full HD (1920x1080) or higher resolution, IPS panel for better color accuracyKeyboards and Mice:Specifications: Ergonomic designs for comfortable use over long periods

Headsets:Specifications: Noise-cancelling, with a built-in microphone for clear communication during meetings and collaborations

# System analysis

System analysis is a critical phase in the development of the responsive restaurant website project. This phase involves a detailed examination of the project requirements, understanding user needs, evaluating feasibility, identifying risks, and creating system models.

The goal is to ensure a comprehensive understanding of the project scope and establish a strong foundation for the subsequent development stages.

Objectives of System Analysis:-

Identify Requirements: Determine both functional and non- functional requirements of the website.Understand

User Needs: Gather and analyze the needs and expectations of the end users.Assess Feasibility: Evaluate the feasibility of the system from technical, economic, and schedule perspectives.

Identify Risks: Recognize potential risks and devise strategies to mitigate them.

Model the System: Create models that represent the processes, data flows, and architecture of the system.

Requirement Analysis:-

Functional Requirements:- User Registration and Authentication: Users can create accounts and log in securely. Admins have

separate login access to manage the backend.

Menu Management: Admins can add, edit, and delete menu items.Customers can view categorized menu items with descriptions and prices.

Reservation System: Customers can book tables specifying date, time, and number of guests.

Admins can view, confirm, or cancel reservations.

Review System: Customers can submit reviews and ratings. Admins can approve or delete reviews.

Contact Form: Customers can send inquiries through a contact form.Admins can view and respond to inquiries.

Gallery Management: Admins can upload and manage images in the gallery.

Customers can view the gallery.

Non-Functional Requirements:-

Usability: The website must be easy to navigate and user-friendly.

Performance: The website must load quickly and handle multiple concurrent users efficiently.

Security: User data must be protected through encryption and secure authentication methods.

Scalability: The system should be able to accommodate future growth in users and data.

Compatibility: The website should be compatible with various browsers and devices.Reliability: The website should function consistently and be available with minimal downtime.

User Analysis

User RolesCustomers: Expect a seamless browsing experience, easy navigation, and quick access to the menu and reservation features.

Admins: Require an intuitive interface for managing menu items, reservations, reviews, and gallery images.

Need robust tools for handling inquiries and monitoring website activities.

User Needs and Expectations:-

Ease of Use: Users expect the website to be straightforward and intuitive.

Responsiveness: Users expect the website to function well on all devices, including smartphones and tablets.

Quick Access: Users want quick access to the menu, reservations, and contact information.

Feedback Mechanism: Users appreciate the ability to provide feedback through reviews and contact forms.

Feasibility Analysis:- Technical Feasibility:-

Technology Stack: The chosen technologies (HTML5, CSS3,

JavaScript, Bootstrap, PHP, MySQL) are suitable for building a responsive and functional website.

Skill Availability: The development team has the necessary skills and experience with the chosen technologies.

Integration: The system can integrate with third-party services like Google Analytics for performance tracking and SEO.

Economic Feasibility:-

Cost Estimation: The project budget includes costs for development tools, hosting, domain registration, and potential third-party services.

ROI: The website is expected to enhance customer engagement, streamline operations, and potentially increase revenue.

Schedule Feasibility:-

Timeline: The project plan outlines a realistic timeline for each phase of development, including analysis, design, development, testing, and deployment.

Resources: Sufficient resources are allocated to ensure timely completion of the project.

Risk Analysis:- Potential Risks:-

Technical Challenges: Integration issues, compatibility problems, or

performance bottlenecks.

Security Threats: Data breaches, SQL injection attacks, or other cyber threats.

User Adoption: Users may face difficulties adapting to the new system.

Mitigation Strategies:-

Technical Risks: Conduct thorough testing and code reviews.

Use established frameworks and libraries to mitigate compatibility issues.

Security Risks: Implement robust security measures like encryption and secure authentication.

Regularly update software and conduct security audits.

User Adoption Risks:

Provide user guides and support.Gather user feedback and make necessary adjustments.

System Modeling:- Process Modeling:-

Use Case Diagrams:Illustrate the interactions between users

(customers and admins) and the system.

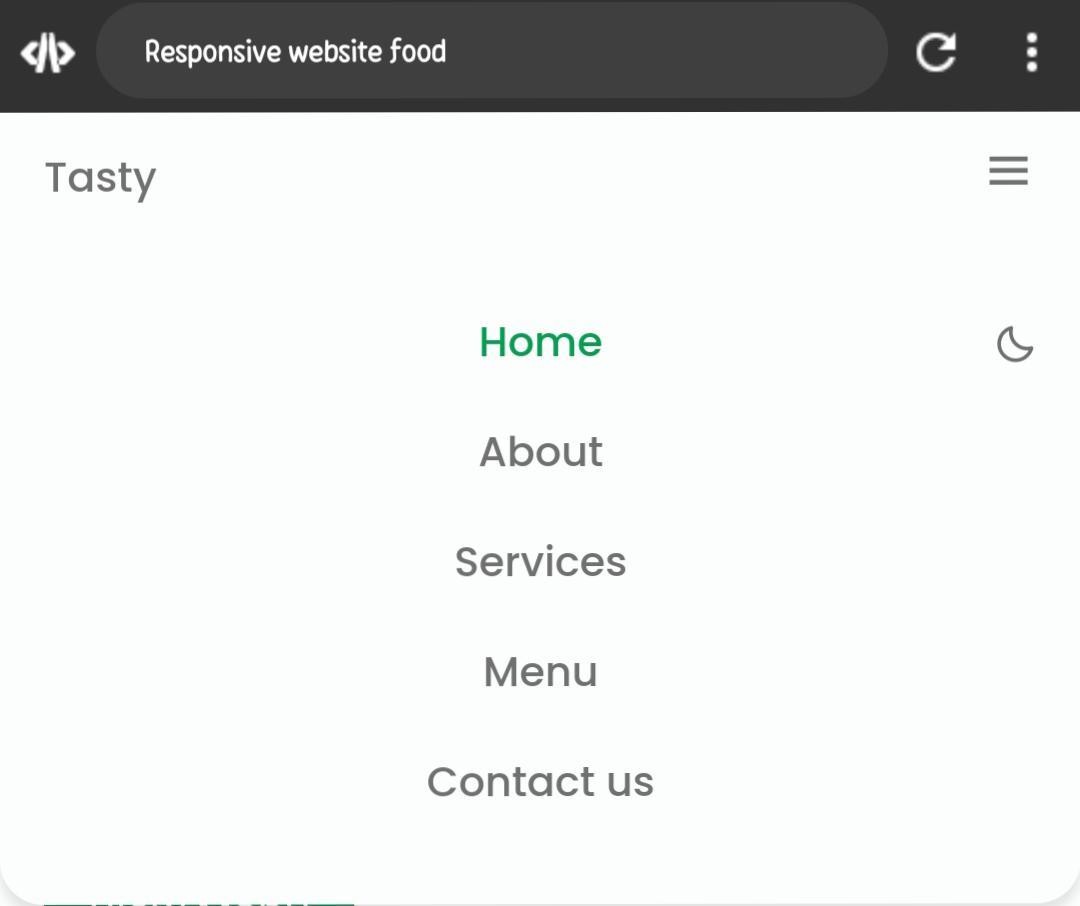
Identify key use cases like "Make Reservation," "Submit Review," "Manage Menu," and "Respond to Inquiry.

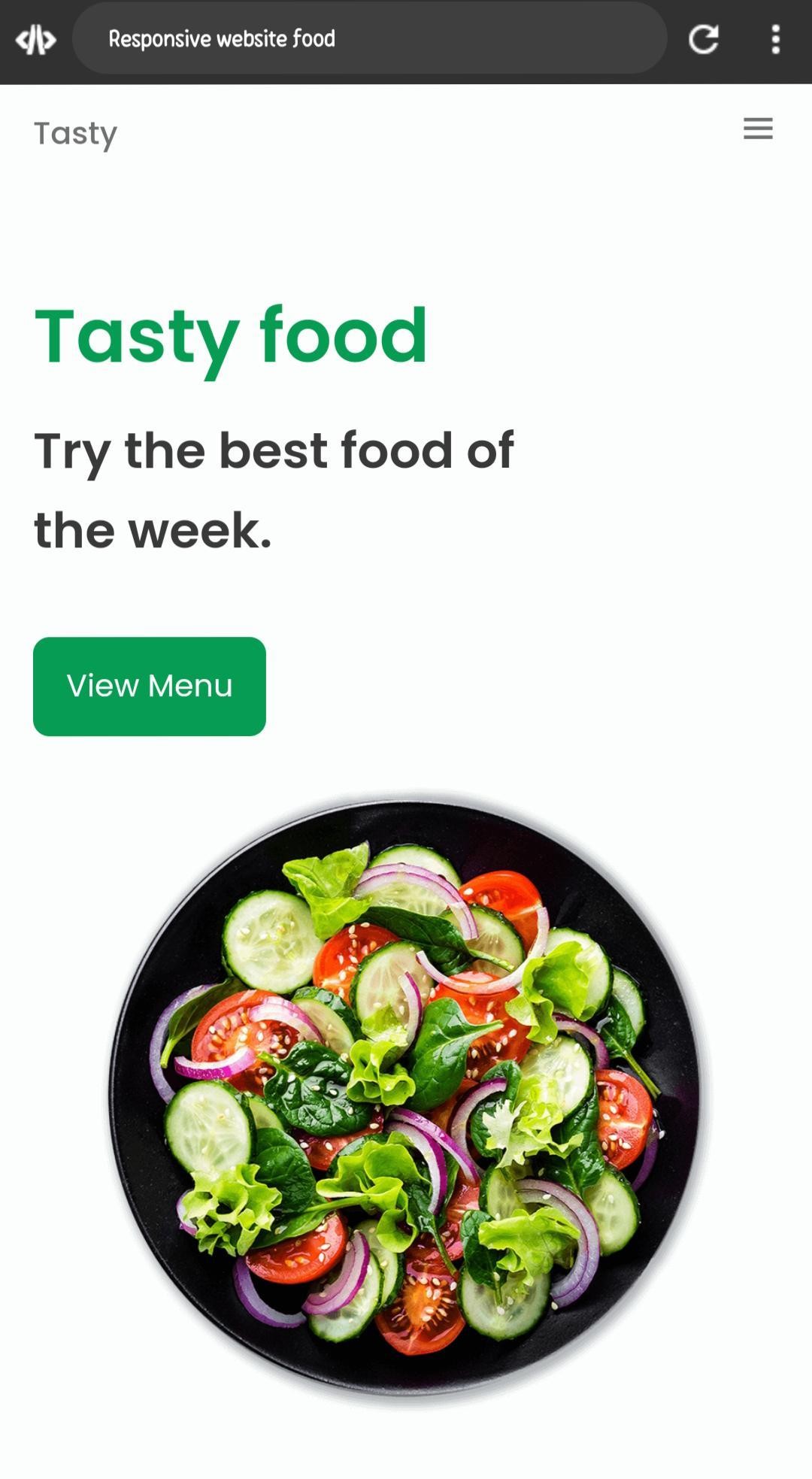
"Activity Diagrams: Map out the workflow for processes like reservation handling, menu management, and review moderation.

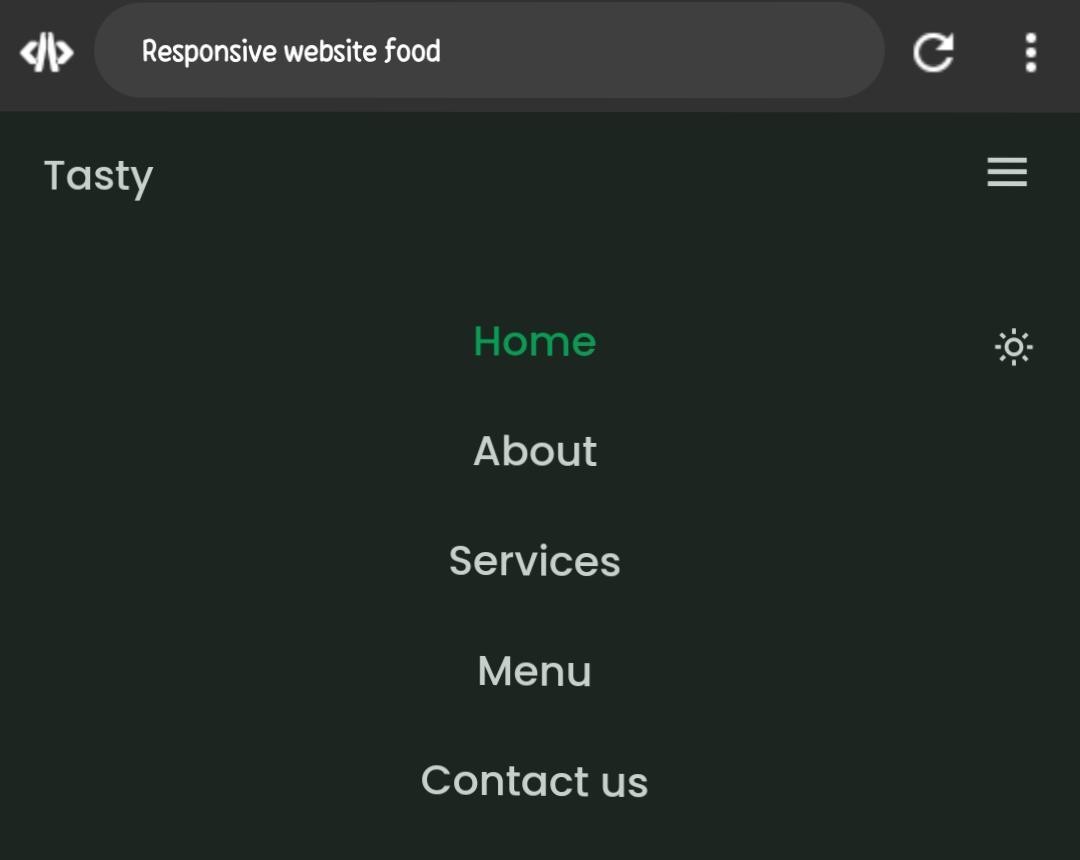
Data Modeling

Entity-Relationship Diagrams (ERD):Represent the database schema, showing entities like Users, MenuItems, Reservations, Reviews, Inquiries, and their relationships.

# Result analysis







**Conclusion of the project**

The completion of the project report marks a significant milestone in the development process of the responsive restaurant website.

Throughout this report, we have explored various aspects of the project, including its objectives, scope, requirements, feasibility, system analysis, and data dictionary.

By conducting a thorough system analysis, we gained a comprehensive understanding of the project's requirements and user needs. This analysis allowed us to identify key functionalities, assess technical and economic feasibility, and mitigate potential risks. We also modeled the system's processes and data, providing a clear blueprint for development.

The data dictionary presented detailed information about the structure, attributes, and constraints of the project’s database tables. This document serves as a reference for developers and

database administrators, ensuring consistency and efficiency in data management.

Overall, the project report lays a solid foundation for the subsequent development and implementation phases. It provides a roadmap for building a responsive, user-friendly website that meets the needs of both customers and restaurant staff. Moving forward, we are confident that with careful planning and execution, the responsive restaurant website will be successfully developed and deployed, providing a valuable asset to the restaurant and enhancing the dining experience for its patrons.

# Future scope of the project

The responsive restaurant website project lays the groundwork for a dynamic online platform catering to the needs of both customers and restaurant administrators. While the initial implementation

fulfills the project’s primary objectives, there are several avenues for future enhancements and expansion.

Here are some potential areas of future scope:

1. Mobile Application Development:-

Developing a dedicated mobile application for the restaurant can extend its reach and accessibility to a broader audience. The app can offer features such as easy table reservations, order placement for takeout or delivery, loyalty programs, and push notifications for promotions or special events.

1. Integration of Advanced Features:-

Online Ordering System: Implementing a comprehensive online ordering system allows customers to browse the menu, customize their orders, and make secure payments online.

Table Management System: Introducing a real-time table management system enables efficient allocation of tables, minimizing wait times, and optimizing restaurant operations.

Inventory Management: Integrating an inventory management module helps streamline procurement, track stock levels, and minimize wastage.

1. Personalized User Experience:-

Utilize data analytics and customer insights to personalize the user experience. Implement features such as recommended dishes based on past orders, personalized promotions, and targeted marketing campaigns to enhance customer engagement and loyalty.

1. Social Media Integration:-

Integrate social media platforms to facilitate seamless sharing of dining experiences, user-generated content, and reviews. This integration can enhance the restaurant’s online presence and reputation, attracting new customers and fostering community engagement.

1. Enhanced Analytics and Reporting:-

Develop robust analytics and reporting capabilities to provide restaurant administrators with valuable insights into customer behavior, sales trends, and operational performance. This data- driven approach enables informed decision-making and strategic planning for business growth.

1. Expansion of Online Presence:-

Explore opportunities for expanding the restaurant’s online presence through partnerships with food delivery aggregators, participation in online food festivals or events, and collaborations with influencers or food bloggers to increase visibility and reach.

1. Sustainability Initiatives:-

Introduce sustainability initiatives such as eco-friendly packaging options, sourcing ingredients from local suppliers, and promoting waste reduction practices.

Highlighting these initiatives on the website can resonate with environmentally conscious consumers and contribute to the restaurant’s brand image.

# Limitations of the project

Despite the comprehensive approach taken during the development of the responsive restaurant website project, there are certain limitations that should be acknowledged:

1. Scalability Constraints:-

The current architecture may face scalability challenges as the volume of users and data increases.

Additional infrastructure and optimizations may be required to support a larger user base and transaction volume.

1. Limited Feature Set:-

While the initial implementation covers essential features such as menu management, reservations, and reviews, there may be additional functionalities desired by users or restaurant administrators that are not yet implemented.

1. Technology Dependencies:-

The project relies on third-party technologies and services, such as web hosting providers, APIs, and frameworks.

Any changes or disruptions to these dependencies could impact the functionality and performance of the website.

1. Security Risks:-

Despite implementing security measures such as encryption and secure authentication, the website may still be vulnerable to cybersecurity threats such as SQL injection, cross-site scripting (XSS), and data breaches.

1. Compatibility Issues:-

Ensuring compatibility across various web browsers, devices, and screen sizes can be challenging.

While efforts have been made to create a responsive design, there may still be inconsistencies in user experience across different platforms.

1. Maintenance Requirements:-

Ongoing maintenance and updates are necessary to address bugs, security vulnerabilities, and compatibility issues, as well as to incorporate new features and enhancements based on user feedback and evolving industry trends.

1. Budget and Resource Constraints:-

Limited budget and resources may constrain the project's ability to implement all desired features and optimizations within the desired timeframe.

Prioritization and careful planning are essential to maximize the project's impact within the available resources.

# Bibliography and References

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Refactoring UI. (n.d.). Refactoring UI: A practical guide to improving the visual design of web applications, with tips and techniques for creating clean, attractive user interfaces.

Google Developers. (n.d.). Web Fundamentals: A collection of resources and best practices from Google for building modern web applications, covering topics such as responsive design, performance optimization, and accessibility.

CSS-Tricks. (n.d.). CSS-Tricks: A web development community offering tutorials, articles, and code snippets on CSS, JavaScript, and front-end development techniques.

Awwwards. (n.d.). Awwwards: A platform showcasing the best examples of web design and user experience, providing inspiration

and insights into current design trends and practices.

These resources provided valuable guidance and inspiration for the frontend development of the responsive restaurant website project, helping to create a visually appealing, user-friendly, and responsive web interface.