

# **SYNOPSIS**

**Report on**

**Restaurant Management Website**

**by**

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# **ABSTRACT**

The Restaurant Management Website provide convince for the Customer. The Restaurant Management System is there to help communication between all teams within a restaurant by minimizing the probability of human error and getting a more efficient and Effective Information. This System set up menu online and the customer easily places the order with a simple click. By using the food menu online anyone can easily track the orders, maintain customer database and improve food delivery services. This system will keep track of day wise activity of restaurant and provide service facility to restaurant and also the customer. The restaurant menu is organized by categories (appetizers, Soups, salads, entrees, sides, drinks) of menu items. Main objective to build this system to provide ordering and reservation service by online to customers. Each menu item has a name, price with additional offers if available at a particular product.

# **INTRODUCTION**

"Restaurant Management Website" is a web developing. This system is developed to automate day to day activity of a restaurant. Restaurant is a kind of business that serves people all over world with ready-made food. This system is developed to provide service facility to restaurant and also to the customer.

This restaurant management system can be used by employees in a restaurant to handle the clients, their orders and can help them easily find free tables or place orders. The services that are provided is food ordering and reservation table management by the customer through the system online, customer information management and waiter information management, menu information management and report.

Online Restaurant management system is the system for manage the restaurant business. After successful login the customer can access the menu page with the items listed according to the desired time. The main point of developing this system is to help restaurant administrator manage the restaurant business and help customer for online ordering and reserve table. In proposed system user can search for a menu according to his choice i.e according to price range and category of food and later he can order a meal.

The project is developing because many restaurants have a lot difficult to manage the business such as customer ordering and reservation table. By using manual customer ordering is difficult to waiter keep the correct customer information and maybe loss the customer information. The customer is also given with the facility to view the status of the order and if the order is ready then he can go and get it.

In the fast-paced world of hospitality, the efficient management of a restaurant is crucial for both the satisfaction of customers and the success of the establishment. With the rapid advancement of technology, modernizing restaurant operations has become imperative to meet the ever-increasing demands of diners. This project aims to introduce a comprehensive Restaurant Management System, consisting of several interconnected modules: Home Page, Menu List, Order Food, Table Reservation, Login Page, and Contact Us etc. These modules are meticulously designed to enhance the overall workflow of a restaurant, ensuring an exceptional dining experience for patrons while simplifying the administrative tasks for restaurant staff.

**Home Page:** The Home Page serves as the digital storefront of the restaurant, offering a warm and inviting virtual environment to entice potential customers. It provides an overview of the restaurant's ambiance, cuisine, and special offerings, setting the stage for a memorable dining experience. Through an intuitive and aesthetically pleasing interface, the Home Page aims to capture the attention of visitors and convey the restaurant's unique personality.

**Contact Us:** The Contact Us module provides a direct line of communication between customers and the restaurant. Whether customers have inquiries, special requests, or feedback to share, this module offers a user-friendly interface to connect with restaurant representatives. It fosters a sense of transparency and responsiveness, making customers feel valued and heard.

**Order Placement:** The customer seamlessly proceeds to the Order Food module, where they place their order, specify any dietary restrictions, and choose their preferred dining method (dine-in, takeout, or delivery).

**Table-Reservation:** For a dine-in experience, the customer uses the Table Reservation module to secure a table for their chosen date and time.

**Login & Personalization:** To enhance their experience, the customer creates a profile through the Login Page, enabling them to track their order and receive personalized recommendations for future visits.

Behind the scenes, restaurant staff can efficiently manage incoming orders, streamline reservations, and harness customer feedback to continually enhance service quality.

## **Language used to Develop this Project:**

**HTML:** The HTML file plays a couple of significant roles in a webpage. Hypertext Markup Language or HTML, is a programming language used to describe the Structure of information on a webpage. Together HTML, CSS, and JavaScript make up the essential building blocks of websites worldwide, with CSS controlling a page's appearance and JavaScript programming its functionality.

**CSS:** CSS (Cascading Style Sheets) is a language for styling the webpage. We can change the appearance and the layout of the webpage by using CSS. We can also define how a website's view changes in different screens like desktops, tablets, and mobile devices.

**JavaScript:** JavaScript is a client-side programming language which helps web developer to do Web Application Development and make dynamic and interactive web pages by implementing custom client-side scripts. Developers can also use cross-platform runtime engines like Node.js to write server-side code in JavaScript. Developers can also create web pages which works well across various browsers, platforms, and devices by combining JavaScript, HTML5, and CSS3.

**Bootstrap:** Bootstrap is a free and open-source tool collection for creating responsive websites and web applications. It is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile first web sites. Bootstrap is a framework to help you design websites faster and easier. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels, etc.

**ReactJS:** ReactJS is a declarative, efficient, and flexible JavaScript library for building reusable UI components. It is an open-source, component-based front-end library responsible only for the view layer of the application.

A ReactJS application is made up of multiple components, each component responsible for outputting a small, reusable piece of HTML code. The components are the heart of all React applications. These Components can be nested with other components to allow complex applications to be built of simple building blocks. ReactJS uses virtual DOM based mechanism to fill data in HTML DOM. The virtual DOM works fast as it only changes individual DOM elements instead of reloading complete DOM every time.

## **Website Development Process**

**Various steps involved in developing Website: -**

**Analysis:** Firstly, better understand the website requirement creation, including website Design and Website looks and feels, the Web pages uses, website content and for suggestion and discussions, a proper space available on a web site for easily approachable.

**Specification:** Predicated on Requisite, prepare a draft designation of Web pages to be developed include the sitemap and a flow of various process.

**Design and Development:** Invention and Development is a significant role plays in Web Development Graphical looks and feel according to most impressive and efficient way, Graphical elements required for design are appearing more impressive, for this use colour and image. Design of web pages, computer graphic includes navigation mock- up, template content and placeholders.

**Coding:** Coding start of a Web Pages in CSS, HTML, Java scripts and other technologies of WWW (world wide web), for drawing of the graphic and text contents, we look code of web page consistently like as webpage design. Coding of a web page is loading fast search engine and index give us rank very quickly. Every web page of a website takes a unique title, unique meta tags as keywords and descriptions.

**Implementation:** In our project we created a Restaurant management website which having the complete information of items and their services. This Website which is develop with some ideas and portability purpose that may help some fresher to look around it and may show some interest against the restaurant management by doing some enquiry through these Website. Here the data is arranged properly by which its updating will be easier in future as the requirement or demand increase towards the website. It contains updated and useful for data for the restaurant management.

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### **There are 6 modules in this Project:**

- First module is home page where we will display the photos of restaurant and will provide header section in it
- Second module is About us option where user can find out about restaurant working flow and owner words.

- Third module is Menu List where user can view the products as well as cost of the product and discount on any particular product if available on any product.
- Fourth module is Contact us where we provide details like email address, contact number, social media website like Instagram, Facebook etc. and location so user can easily contact to us.
- Fifth module is about Table Ordering where user can check if table is available in the restaurant or not. If available then can book the table on the priority basis.
- Sixth module is about Chef where in this module we give the details of our restaurant chefs and also provide their social id.

## **Conclusion**

In conclusion, the Restaurant Management System presented here represents a paradigm shift in the way restaurants operate and interact with their customers. It harnesses the power of technology to streamline processes, enhance customer engagement, and optimize overall efficiency. By combining the Home Page's captivating presentation, the Menu List's informative catalogue, the Order Food module's convenience, the Table Reservation's accessibility, the Login Page's personalization, and the Contact Us module's communication, this system elevates the dining experience to new heights.

As restaurants continue to adapt to the ever-evolving demands of the modern world, embracing innovative solutions like this Restaurant Management System is not only beneficial but often necessary for remaining competitive in the industry. By seamlessly integrating these six modules, establishments can build stronger customer relationships, boost operational efficiency, and ultimately savour the sweet taste of success in the dynamic world of hospitality.