



**Tech Saksham**  
**Final Project Report**  
**Track1\_Applied\_CC\_for\_Software\_Development**

**“RESTAURANT OFFICIAL WEBPAGE”**

**“RAYALASEEMA UNIVERSITY COLLEGE OF  
ENGINEERING”**

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## **ABSTRACT**

This restaurant website project aims to create an engaging and user-friendly online platform for a dining establishment. The website will serve as a digital storefront, offering visitors access to essential information such as the menu, location, hours of operation, and the ability to make reservations. Additionally, the site will incorporate visually appealing design elements and high-quality images to showcase the restaurant's ambiance and cuisine. Features such as online ordering, customer reviews, and an interactive map for directions will enhance the overall user experience. The project's primary objective is to enhance the restaurant's online presence, attract more customers, and streamline the reservation and ordering processes, ultimately contributing to the restaurant's success in the digital age.

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# CHAPTER 1

## INTRODUCTION

### 1.1 Overview

The main objective builds the website is to provide ordering and reservation service online to the customer

### 1.2 Features

- Study of Restaurant Business
- Good Quality Food
- Beverages
- Location
- Positive Guest Experience
- Menu Design

### 1.3 Advantages

- Clear Contact and Visiting Information
- An Online Reservation and Ordering Page

### 1.4 Scope

The primary scope of the restaurant management system project is well depicted on the user case diagrams that are well showcased in this report. However, the central system functionalities of the restaurant management system comprise generating reports, inventories, employee records, and managing orders.

### 1.5 Future Work

The future work of a restaurant webpage project can involve ongoing improvements and enhancements to keep the website current, competitive, and aligned with the restaurant's evolving needs.

- Menu Updates
- Promotions and Specials
- User Experience Optimization
- Online Ordering Enhancement

## **CHAPTER 2**

### **SERVICES AND TOOLS REQUIRED**

#### **2.1 Services Used**

##### **2.1.1 Liberty Profile**

Liberty Profile is a lightweight version of the full Java EE 8 platform that is designed for cloud-native applications. It is a good choice for developing travel websites because it is fast, efficient, and scalable.

#### **2.2 Tools and Software's used**

##### **2.2.1 NodeJS**

Node.js is a popular JavaScript runtime environment that can be utilized in various aspects of a restaurant webpage project, particularly for building the server-side and backend components of the website.

##### **2.2.2 HTML**

HTML is a Hypertext Markup Language fundamental part of any web page project, including restaurant web pages. HTML is used to structure the content and layout of web pages. Here's how HTML is typically used in a restaurant web page project:

- Structuring content
- Hyperlinks
- Images and Media
- Forms
- Lists
- Tables
- Accessibilities

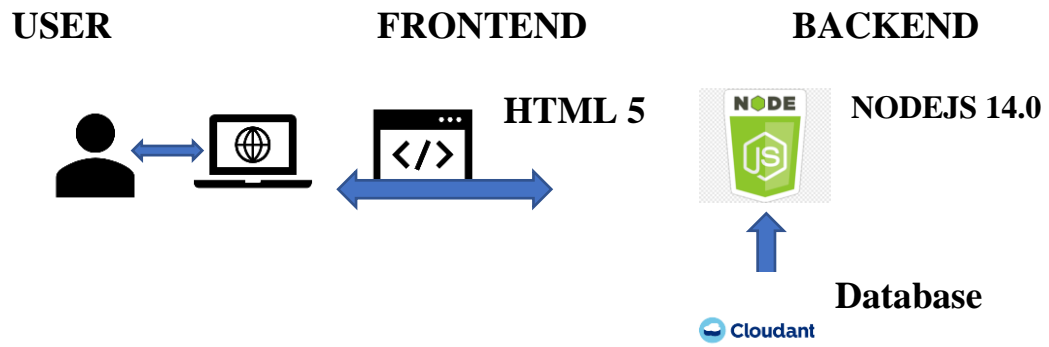
##### **2.2.3 Cloud Foundry**

Cloud Foundry is an open-source platform as a service (PaaS) that allows developers to build, deploy, and manage applications in the cloud. It is a good choice for deploying travel websites because it is easy to use and scalable.

# CHAPTER 3

## PROJECT ARCHITECTURE

### 3.1 Architecture



## CHAPTER 4

### ARCHITECTURE BLOCKS DETAIL WORKING

#### 4.1 Blocks

##### 1. Client-Side (Frontend):

**User Interface (UI):** This block encompasses the visible elements of the website that users interact with. It includes HTML for structuring content, CSS for styling, and JavaScript for interactivity.

**Responsive Design:** The UI is designed to adapt to various screen sizes, ensuring a consistent and user-friendly experience across devices.

**Frameworks and Libraries:** Frontend frameworks like React, Angular, or Vue.js may be used to build interactive components and manage the frontend application's state.

##### 2. Server-Side (Backend):

**Web Server:** The web server (e.g., Apache, Nginx) handles HTTP requests, serves static files, and routes requests to the appropriate backend components.

**Application Server:** This block hosts the server-side logic and APIs. Technologies like Node.js, Java (with Spring Boot), Python (with Django), or Ruby on Rails can be used.

**APIs:** RESTful or Graph APIs are designed to provide data and functionality to the frontend. They handle requests for features like menu display, reservations, and user account management.

**Security:** The backend implements security measures like user authentication, authorization, and data encryption to protect customer data and transactions.

**Middleware:** Middleware components handle tasks like request logging, data validation, and authentication.

##### 3. Data Storage:

**Menu Database:** Stores information about menu items, including names, descriptions, prices.

**Customer Database:** Contains customer profiles, contact details, and order history.

**Reservation Database:** Stores reservation

## **CHAPTER 5**

### **PROJECT BUDGET**

We have developed this project completely on own, but it has not been deployed at anywhere, it is still in my local system, so we have not consumed anything so far.

We have developed this software completely free of cost

1. HTML
2. CSS
3. JAVA SCRIPT
4. BOOTSTRAP
5. MYSQL DB
6. PHP
7. OAUTH API.



## **CONCLUSION**

In conclusion, a restaurant web page project is a multifaceted endeavor that involves the creation of a digital presence for a restaurant. This digital platform serves various purposes, from providing essential information to potential customers to offering online ordering and reservation capabilities.

1. Online Visibility
2. Customer Engagement
3. Menu Presentation
4. Online Ordering
5. Reservation Management
6. Marketing and Promotion
7. Accessibility
8. Security
9. Evaluation
10. Thankyou

## **REFERENCES**

### **Reference-1**

<https://www.templatemonster.com/category/restaurant-website-templates/>

### **Reference-2**

<https://www.wix.com/website/templates/html/restaurant-food>

### **Reference-3**

<https://www.squarespace.com/templates/food-restaurant>

## **CODE**

<https://github.com/Jhansi350/vijayalakshmi07>