

Name: Swaraj Bhoir

Course Code: INT219

Reg: 12200864

Section: K22CC

Roll No: B27

Year: 2024-25

**Project Report**

**Title**: *Restaurant Website Development*

**Declaration**

I, Swaraj Bhoir, hereby declare that the project report entitled “Restaurant Website Development” submitted by me in partial fulfillment of the requirements for the degree of Bachelor of Computer Science is an original work. This work has not been submitted for any other course or examination.

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**Chapter 1: Introduction**

In the current digital age, a restaurant’s online presence plays a crucial role in reaching new customers and retaining existing ones. This project focuses on developing a dedicated website for a restaurant that will not only showcase the menu and location but also enable customers to make reservations and place orders online. The main goal is to provide a platform that enhances customer engagement and streamlines operations.

**Chapter 2: Profile of the Problem**

**2.1 Problem Statement**

Restaurants that lack an efficient online system face challenges in catering to tech-savvy customers who prefer online ordering and reservations. The absence of a dedicated website reduces a restaurant's visibility, limiting its market reach and accessibility to customers who rely on online services.

**2.2 Rationale/Scope of the Study**

This project seeks to develop a user-friendly and feature-rich website that will address the above problems by providing a digital platform for online ordering, table reservations, and menu browsing. It will help restaurants manage customer requests more efficiently, increase accessibility, and improve customer satisfaction.

**Chapter 3: Existing System**

**3.1 Introduction**

Many restaurants currently use third-party applications for online ordering and reservations. While convenient, these platforms have significant limitations, such as high service fees and limited customization options that may not align with the restaurant's branding.

**3.2 Existing Software**

* **Third-Party Delivery Apps**: These include apps like UberEats and DoorDash, which charge high commission fees and reduce a restaurant’s direct relationship with customers.
* **Simple Business Profile Websites**: Some restaurants use basic web pages that only provide contact information and a menu but lack interactive features such as ordering or reservations.

**Chapter 4: Problem Analysis**

**4.1 Product Definition**

The restaurant website aims to provide users with:

1. **Online Menu Browsing**: A visually appealing menu that users can navigate with ease.
2. **Ordering System**: An online ordering feature, integrated with payment options.
3. **Reservation System**: Customers can make table reservations with confirmation.

**4.2 Feasibility Analysis**

* **Technical Feasibility**: The development can be achieved using standard web technologies like HTML, CSS, JavaScript.
* **Economic Feasibility**: The project can be implemented at a low cost since it relies on free or open-source technologies.

**4.3 Project Plan**

The project is divided into phases, including requirements gathering, design, development, testing, and deployment. Each phase has a clear timeline, with expected milestones at the end of each stage.

**4.4 Flowcharts**

**Sample Flowchart: User Login**

css

Copy code

[User] --> [Login Page] --> [Credentials Check] --> [Success] --> [User Dashboard]

↓

[Failure]

↓

[Error Message]

**4.5 Pseudo Code**

**Pseudo Code for Reservation System**

markdown

Copy code

1. Start

2. Display available tables

3. Allow user to select date and time

4. Check availability

5. If available, confirm booking

6. Send confirmation email

7. End

**Chapter 5: Implementation**

**5.1 Implementation of the Project**

**Technologies Used:**

* **Frontend**:
  + HTML
  + CSS
  + JavaScript

**5.2 Conversion Plan**

The conversion plan involves testing each module individually before full integration to ensure a smooth transition.

**5.3 Post-Implementation and Software Maintenance**

Post-implementation, regular updates will be scheduled to maintain security, update menu items, and fix bugs. The website will be monitored for performance, and user feedback will be collected for future improvements.

**Chapter 6: Project Legacy**

This project has provided a comprehensive solution for restaurant management. Its major achievements include developing a fully functional online ordering system, a reservation feature, and a responsive layout. Future enhancements may include adding a chatbot for customer queries, a loyalty program, and social media integration.

**Chapter 7: Source Code / System Snapshots**

**7.1 Source Code**

<!-- HTML: Restaurant Homepage -->

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>MyRestro</title>

<link rel="stylesheet" href="home.css">

<link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

</head>

<body>

<header>

<nav class="navbar navbar-expand-lg navbar-light bg-light">

<a class="navbar-brand" href="home.html">MyRestro</a>

<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<div class="collapse navbar-collapse" id="navbarNav">

<ul class="navbar-nav ml-auto">

<li class="nav-item"><a class="nav-link" href="home.html">Home</a></li>

<li class="nav-item"><a class="nav-link" href="menu.html">Menu</a></li>

<li class="nav-item"><a class="nav-link" href="#foot">Contact</a></li>

</ul>

</div>

</nav>

</header>

<!-- Hero Section -->

<header class="hero">

<div class="hero-text">

<h1>MyRestro</h1>

<p>Authentic Flavors, Unforgettable Experiences</p>

<a href="#menu" class="btn">View Menu</a>

<a href="#reservation" class="btn">Reserve a Table</a>

</div>

</header>

<!-- About Us Section -->

<section class="about" id="about">

<h2>Our Story</h2>

<p>Discover the essence of our cuisine and the inspiration behind our recipes, crafted with passion and love for every taste.</p>

<img src="About.png" alt="About Us Image">

</section>

<!-- Menu Highlights Section -->

<section class="menu" id="menu">

<h2>Our Signature Dishes</h2>

<div class="menu-gallery">

<img src="kebab.jpg" alt="Dish 1">

<img src="chicken.jpg" alt="Dish 2">

<img src="burger.jpg" alt="Dish 3">

</div><br>

<a href="menu.html" class="btn">Explore Full Menu</a>

</section>

<!-- Special Offers Section -->

<section class="specials">

<h2>Special Offers & Events</h2>

<p>Join us for exclusive culinary events and limited-time offers.</p>

<a href="events.html" class="btn">Learn More</a>

</section>

<footer class="bg-dark py-4 text-white">

<div class="container text-center">

<p class="mb-0">Contact us: info@MyRestro.com | +123 456 7890</p>

<p class="mb-0">© 2024 MyRestro. All rights reserved.</p>

</div>

</footer>

</body>

</html>

/\* CSS: styles.css \*/

\* {

margin: 0;

padding: 0;

box-sizing: border-box;

}

body {

font-family: Arial, sans-serif;

color: #333;

background: linear-gradient(to right, #f04c4c, #ffb74d); /\* Example gradient \*/

}

.hero {

background: url('D:\Front End Project\bg.jpg') no-repeat center center/cover;

height: 50vh;

display: flex;

align-items: center;

justify-content: center;

text-align: center;

color: white;

}

.hero-text {

background: rgba(0, 0, 0, 0.5);

padding: 20px;

}

.hero h1 {

font-size: 3rem;

margin-bottom: 10px;

}

.hero p {

font-size: 1.2rem;

margin-bottom: 20px;

}

.btn {

padding: 10px 20px;

background: white;

color: white;

text-decoration: none;

margin: 10px;

border-radius: 5px;

}

.btn:hover {

background: #d24343;

}

section {

padding: 60px 20px;

text-align: center;

}

.about, .menu, .specials {

max-width: 800px;

margin: auto;

}

.about img, .menu-gallery img {

width: 100%;

border-radius: 10px;

margin-top: 20px;

}

.menu-gallery {

display: flex;

gap: 20px;

justify-content: center;

}

.menu-gallery img {

width: 50%;

}

h2 {

font-size: 2.5rem;

margin-bottom: 20px;

}

p {

font-size: 1.1rem;

margin-bottom: 20px;

}

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Product Listing Page</title>

<script src="https://cdn.tailwindcss.com"></script>

<link href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css" rel="stylesheet">

</head>

<body class="bg-pink-300">

<header>

<nav class="navbar navbar-expand-lg navbar-light bg-light">

<a class="navbar-brand" href="home.html">MyRestro</a>

<button class="navbar-toggler" type="button" data-toggle="collapse" data-target="#navbarNav" aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">

<span class="navbar-toggler-icon"></span>

</button>

<ul class="navbar-nav ml-auto">

<li class="nav-item"><a class="nav-link" href="home.html">Home</a></li>

<li class="nav-item"><a class="nav-link" href="menu.html">Menu</a></li>

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

</ul>

</nav>

</header>

<br>

<center

<!-- Product Cards Section -->

<section class="w-full md:w-3/4 md:pl-6 grid grid-cols-1 sm:grid-cols-2 lg:grid-cols-3 gap-6">

<!-- Product Card -->

<div class="bg-white p-4 rounded shadow-md hover:bg-gray-100 transform hover:scale-105 transition duration-300">

<img src="https://via.placeholder.com/150" alt="Product Image" class="w-full h-40 object-cover rounded mb-2">

<h3 class="text-lg font-semibold">Product Title 1</h3>

<p class="text-gray-600">$19.99</p>

</div>

<!-- Repeat for additional products -->

<div class="bg-white p-4 rounded shadow-md hover:bg-gray-100 transform hover:scale-105 transition duration-300">

<img src="https://via.placeholder.com/150" alt="Product Image" class="w-full h-40 object-cover rounded mb-2">

<h3 class="text-lg font-semibold">Product Title 2</h3>

<p class="text-gray-600">$24.99</p>

</div>

<div class="bg-white p-4 rounded shadow-md hover:bg-gray-100 transform hover:scale-105 transition duration-300">

<img src="https://via.placeholder.com/150" alt="Product Image" class="w-full h-40 object-cover rounded mb-2">

<h3 class="text-lg font-semibold">Product Title 3</h3>

<p class="text-gray-600">$29.99</p>

</div>

<div class="bg-white p-4 rounded shadow-md hover:bg-gray-100 transform hover:scale-105 transition duration-300">

<img src="https://via.placeholder.com/150" alt="Product Image" class="w-full h-40 object-cover rounded mb-2">

<h3 class="text-lg font-semibold">Product Title 4</h3>

<p class="text-gray-600">$34.99</p>

</div>

<div class="bg-white p-4 rounded shadow-md hover:bg-gray-100 transform hover:scale-105 transition duration-300">

<img src="https://via.placeholder.com/150" alt="Product Image" class="w-full h-40 object-cover rounded mb-2">

<h3 class="text-lg font-semibold">Product Title 5</h3>

<p class="text-gray-600">$39.99</p>

</div>

<div class="bg-white p-4 rounded shadow-md hover:bg-gray-100 transform hover:scale-105 transition duration-300">

<img src="https://via.placeholder.com/150" alt="Product Image" class="w-full h-40 object-cover rounded mb-2">

<h3 class="text-lg font-semibold">Product Title 6</h3>

<p class="text-gray-600">$44.99</p>

</div>

<div class="bg-white p-4 rounded shadow-md hover:bg-gray-100 transform hover:scale-105 transition duration-300">

<img src="https://via.placeholder.com/150" alt="Product Image" class="w-full h-40 object-cover rounded mb-2">

<h3 class="text-lg font-semibold">Product Title 5</h3>

<p class="text-gray-600">$39.99</p>

</div>

<div class="bg-white p-4 rounded shadow-md hover:bg-gray-100 transform hover:scale-105 transition duration-300">

<img src="https://via.placeholder.com/150" alt="Product Image" class="w-full h-40 object-cover rounded mb-2">

<h3 class="text-lg font-semibold">Product Title 6</h3>

<p class="text-gray-600">$44.99</p>

</div>

<div class="bg-white p-4 rounded shadow-md hover:bg-gray-100 transform hover:scale-105 transition duration-300">

<img src="https://via.placeholder.com/150" alt="Product Image" class="w-full h-40 object-cover rounded mb-2">

<h3 class="text-lg font-semibold">Product Title 6</h3>

<p class="text-gray-600">$44.99</p>

</div>

</section>

<br><br>

</center>

<footer class="bg-dark py-4 text-white">

<div class="container text-center">

<p class="mb-0">Contact us: info@MyRestro.com | +123 456 7890</p>

<p class="mb-0">© 2024 MyRestro. All rights reserved.</p>

</div>

</footer>

</body>

</html>

**7.2 System Snapshots**

* **Home Page**: Displays restaurant branding and main navigation.
* **Menu Page**: Lists menu items with images, descriptions, and prices.
* **Order Page**: Allows users to add items to their cart and proceed to checkout.
* **Reservation Page**: Offers an interactive calendar for selecting table reservation dates.

A screenshot of a website

Description automatically generated

A room with a couch and chairs

Description automatically generated

A screenshot of a menu

Description automatically generated

A screenshot of a menu

Description automatically generated

