Project Report

A Project Report

Submitted to the **Bharatiya Engineering Science and Technology Innovation University** *in partial fulfilment of Requirements for the Award of Degree*

Bachelor of Technology

In

CSE – Cyber Security

By

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DEPT. OF COMPUTER SCIENCE AND ENGINEERING (CSE)

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CERTIFICATE

This is to certify that the report entitled **BTECHWALA Restaurant Management Website** submitted by **T Sreenivasulu** 21BE03016 to the Bharatiya Engineering Science and Technology Innovation University in partial fulfilment of the B. Tech degree in Cyber Security is a Bonafide record of the project work carried out by him under our guidance and Supervision. This report in any form has not been submitted to any other University or Institute for any purpose.

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(Project Guide),

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DEAN,

SEAT,

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DECLARATION

We hereby declare that the project report **BTECHWALA Restaurant Management Website** submitted for partial fulfilment of the requirements for the award of degree of Bachelor of Technology of the Bharatiya Engineering Science and Technology Innovation University this is a Bonafide work done by us under supervision of Smt. M Triveni.

This submission represents our ideas in our own words and where ideas or words of others have been included, we have adequately and accurately cited and referenced the original sources.

We also declare that I have adhered to ethics of academic honesty and integrity and have not misrepresented or fabricated any data or idea or fact or source in my submission. We understand that any violation of the above will be a cause for disciplinary action by the institute and/or the University and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been obtained. This report has not been previously formed the basis for the award of any degree, diploma or similar title of any other University

<div align="right">

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</div>

ABSTRACT

The BTECHWALA Restaurant website is a polished and user-centric digital platform designed to provide a seamless and engaging experience for visitors. The website is meticulously structured with a combination of HTML, CSS, and JavaScript files to ensure both visual appeal and operational efficiency. The primary pages include a welcoming homepage, an about page that narrates the restaurant's story, a detailed menu page showcasing the diverse culinary offerings, a booking page for table reservations, and a contact page providing essential information and communication options. The design is cohesively maintained through global and component-specific stylesheets, while interactive elements are powered by a main JavaScript file. The inclusion of high-quality images adds to the visual allure of the site. Detailed developer documentation ensures that the website is easy to maintain and update. Overall, the BTECHWALA Restaurant website successfully combines elegance and functionality, offering visitors an informative and delightful online experience.

"BTECHWALA Restaurant Website" is considered as an increasingly used web service in restaurant management. Just a few years ago, people used to spend long time waiting for a table to be ready for them at a restaurant. And after that, they would wait longer time to order their food. There was no surprise that the food took too long to be prepared. In short, the whole enjoyment of eating did eventually result in boredom and tiredness for customers. From another side, this is the restaurant management and staff who used to stand much pressure to handle a lot of customers at the same time. With great technology in general and the internet in specific, customers can be happy by using online food menu and table reservation. This facilitates the work of restaurant managers and staff. The system will make the entire process for the restaurant manager much easier and faster compared with traditional methods. On the other hand, these days' customers can see menu and other services and make their reservations as quickly and enjoyably as a click on their computers or smart devices.

Acknowledgement

We take this opportunity to express my deepest sense of gratitude and sincere thanks to everyone who helped us to complete this work successfully. We express our sincere thanks to Dr. T Lakshmi Narasappa Sir, Head of Department, Computer Science and Engineering, Bharatiya Engineering Science and Technology Innovation University Gownivaripalli for providing us with all the necessary facilities and support.

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CHAPTER-1
INTRODUCTION

1.1 CONTEXT

In this Corona pandemic immunity plays a vital role in our body but most of the people are observed with low immunity which makes them suffer a lot thousands of people died and some people get over this disease and then they are getting in contact with other new diseases because of low immunity, so we decided to help people with building immunity by building a responsive restaurant website to make people aware of healthy food and livelihood for employees.

In the digital age, the food and beverage industry has increasingly embraced technology to enhance customer experience and streamline operations. An online restaurant website serves as a pivotal platform for this transformation, offering numerous benefits for both customers and business owners.

The primary goal of an online restaurant website is to bridge the gap between the restaurant and its customers, offering a seamless, engaging, and efficient experience.

For Customers: An online restaurant website provides a convenient and accessible way to explore a restaurant's menu, place orders, and make reservations.

1.2 OBJECTIVE

The objective of this project is to build an electronic restaurant management system using all of the skills and techniques from the field ensuring that no common development mistakes are reproduced. Project management is critical to all software engineering projects and keeping to a project plan will be of similar importance. One of the main objectives of any business is to maximize profit by increasing efficiency and de-creasing overheads without compromising customer satisfaction. Currently, many restaurants use a paper-based system to communicate between the restaurant and kitchen which can be shown to be one of the least efficient approaches. Even though this approach is implemented in successful profitable restaurants, there are several problems which could be seen as reducing the restaurant's efficiency:

• Miscommunication caused by handwriting.

• Unmanageable order logging.

• Inefficient restaurant-kitchen communication.

• Difficult order tracking and time management.

• Difficult stock management.

• Limited statistical output.

By introducing an electronic restaurant management system these problems can be avoided or improved leading to an increase in profits.

THIS GOAL ENCOMPASSES SEVERAL KEY OBJECTIVES:

1.2.1 Enhancing Customer Convenience:
- **Online Ordering:** Provide an easy-to-use platform for customers to browse the menu, customize orders, and make payments online.
- **Reservations:** Enable customers to make table reservations effortlessly.
- **Delivery and Takeout:** Facilitate smooth delivery and takeout services with real-time tracking.

1.2.2 Improving Customer Engagement:

- **Interactive Menus:** Offer detailed descriptions, high-quality images, and nutritional information for menu items.

- **Customer Reviews:** Allow customers to leave and read reviews, fostering a sense of community and trust.
- **Loyalty Programs:** Implement loyalty programs to reward repeat customers and encourage frequent visits.

1.2.3 Promoting Health and Wellness:

- **Healthy Options:** Highlight nutritious and healthy menu options to promote better eating habits.
- **Educational Content:** Provide articles, blogs, and tips on maintaining a healthy diet and lifestyle.

1.2.4 Showcasing the Brand:

- **Brand Identity:** Reflect the restaurant's unique brand identity through design, content, and overall user experience.
- **Data Insights:** Collecting and analyzing customer data to understand preferences, optimize inventory, and improve service.

1.2.5 Improving Public Health:

- **Promoting Healthy Eating:** Offering information on nutritious menu options and the health benefits of various ingredients.
- **Educational Content:** Providing resources on maintaining a balanced diet, boosting immunity, and overall wellness.

1.2.6 Supporting Employees:

- **Job Creation:** Creating jobs related to website management, content creation, and digital marketing.
- **Enhanced Livelihood:** Contributing to the livelihood of employees by increasing the restaurant's profitability and stability.

1.3 EXISTING SYSTEM

There are many computerized restaurant management systems available but for each system there exist disadvantages or missing features. The most common type of restaurant management system contains a static order entry computer system usually in the shape of a desktop computer with a touchscreen. Typically this common approach is adequate to the restaurants requirements but still requires handwritten or printed menu which thousands of people touches while eating that become unhealthy full of germs and dirty. A slightly different approach was implemented in a restaurant in Nuremberg, Germany, named as **BTECHWALA Restaurent**. The restaurant utilizes a rollercoaster approachtoserv in the food and an order entry system fully operated by the customer. As reviewed by the BBC, there is no need for any waiter as the customers use touch-screen monitors to browse the menu. This new invention can save on operating costs, but the initial injection of cash required is substantial as every table requires the necessary hardware. The next section will introduce the project proposal listing the proposed features of the system.

The current system for the BTECHWALA restaurant website encompasses several fundamental features and functionalities designed to cater to the needs of both customers and the business. These include:

1.3.1 Static Menu Display:

➢ The website provides a static menu that showcases the various dishes offered by the restaurant. This includes detailed descriptions, pricing, and occasionally, images of the dishes.

1.3.2 Basic Contact Information:
➢ The site includes essential contact information, such as the restaurant's address, phone number, and email. There may also be a basic contact form for customer inquiries.

1.3.3 Reservation System:

• A simple online reservation system allows customers to book tables in advance. This system captures basic customer details like name, contact number, and reservation time.

1.3.4 Online Ordering:

➢ Customers can place orders for delivery or takeaway through the website. The system includes a basic cart and checkout process, with options for online payment or cash on delivery.

1.3.5 Limited Customer Interaction:

> There are limited options for customer interaction, such as leaving reviews or feedback directly on the website. Interaction is mainly through third-party review sites or social media platforms.

1.3.6 Basic Information on Healthy Eating:

> The website provides some information about healthy eating and the nutritional value of menu items, aimed at promoting better dietary choices among customers.

1.3.7 Static Content Management:

> Content updates on the website, such as menu changes or new promotions, require manual updates by the website administrator. This process is not user-friendly and can lead to delays in reflecting real-time changes.

1.3.8 Employee Management:

> The current system has a minimal focus on employee management or engagement through the website. Any employee-related content, such as job postings or staff highlights, is typically static and infrequently updated.

1.4 Challenges and Limitations

Despite offering essential functionalities, the BTECHWALA restaurant website faces several challenges and limitations that hinder its effectiveness and customer satisfaction. These include:

1.4.1 Lack of Responsiveness:

- **Issue:** The website may not be optimized for mobile devices and tablets, leading to a poor user experience on these platforms.
- **Impact:** Customers accessing the site on their phones or tablets may find it difficult to navigate, potentially driving them away.

1.4.2 User Experience:

- **Issue:** The website provides a basic and static user experience, lacking personalization and interactive elements.
- **Impact:** Limited engagement and customer satisfaction, as users may find the site unappealing and uninspiring.

1.4.3 Customer Insights:

- **Issue:** The current system lacks advanced analytics to track customer preferences, behaviors, and feedback.
- **Impact:** Difficulty in understanding customer needs and tailoring services or marketing strategies to enhance customer satisfaction and loyalty.

While the existing BTECHWALA restaurant website covers basic functionalities like menu display, contact information, and online ordering, it falls short in several areas critical for modern restaurant operations and customer engagement. Enhancements in responsiveness, user experience, operational efficiency, marketing tools, and health promotion are needed to elevate the website to meet contemporary standards and customer expectations.

CHAPTER-2
SOFTWARE REQUIREMENTS ANALYSIS

To enhance the BTECHWALA restaurant website and address the existing challenges, a comprehensive software requirement analysis is essential. This analysis identifies the functional and non-functional requirements needed to develop a robust, user-friendly, and efficient online platform.

2.1 IMPACT OF RESTAURANT WEBSITE ON DAILY LIFE

Did you know there are only 2-3% of restaurants in the world that offer online ordering facility? This is your chance to make the most of this opportunity and make your restaurants available to your customers on their fingertips. With the growing consumer demand for faster, more convenient ways to order, independent restaurants are investing in this new takeout technology to stay ahead in the competition.

"In 2019, the percentage of restaurant orders placed online exceeded the quantity placed verbally over the phone".

Domino's Pizza introduced their online ordering system in 2010 and since then the company has grown to become the second-largest pizza chain in the world with the stock price rising from $8 to $200.

Your restaurant seating capacity maybe 100-200 at a time, or even less, but with on call ordering, you can reach thousands of people at a time, and cater to a much larger number without having to make any additional investment in staff or infrastructure. All you need is a well-integrated on call ordering system and you are good to go!

2.2 PROBLEM STATEMENT

According to a research article written by Horizons, in 2006 within the UK there was just over 26,000 restaurants with 734 million meals served that year. As this restaurant sector was worth £7.61 billion, any restaurant generating a good business reputation could lead to the making of a very successful and profitable business. The problem for many businesses is to ensure that they not only attract new customers but to ensure they maintain their existing clientele. It has been argued many times that an exist in customer is worth more to a business than a new customer as the cost to attract a new customer can be up to five times the cost to retain an old customer.

An online article by Paul Lemberg, discusses the pros and cons of this argument. Within the restaurant sector, a customer is likely to return to the restaurant in the future if they received an excellent customer service as well as appetising food. However, if they had to wait for an unreasonable amount of time or there was a mistake in the order, it's very unlikely the customer would return. Therefore a solution to this problem would be to minimise mistakes within the order and bill, and help eradicate delays as well as encouraging team work and communication within the team.

2.3 HARDWARE AND SOFTWARE REQUIREMENTS

To develop and maintain the BTECHWALA restaurant website, both hardware and software resources are essential

2.3.1 Hardware Requirements:

✍ **Processor:**

- **Type:** Intel i3
- **Rationale:** Suitable for basic development tasks and running a local server.

✍ **Operating System:**

- **Type:** Any Operating System (Windows, macOS, or Linux)
- **Rationale:** Flexibility to use any OS depending on the developer's preference and compatibility with the development tools.

✍ **RAM:**

- **Capacity:** 4 GB (or higher)
- **Rationale:** Adequate for running development environments and local servers without performance issues.

✍ **Hard Disk:**

- **Capacity:** 256 GB (or higher)
- **Rationale:** Sufficient storage for the operating system, development tools, project files, and related resources.

2.3.2 Software Requirements:

Development Environment:

- **Software Used:** Visual Studio Code
- **Rationale:** A popular, lightweight, and versatile code editor that supports extensions for various programming languages and development tools

Local Server:

- **Software Used:** XAMPP
- **Rationale:** Provides an easy-to-install and configure Apache distribution containing MySQL, PHP, and Perl, suitable for local development and testing.

Programming Languages:

- **Frontend:**
    - **HTML:** For structuring the content of web pages.
    - **CSS:** For styling the web pages and ensuring they are visually appealing and responsive.
    - **JavaScript:** For adding interactivity and dynamic features to the web pages.
- **Backend:**
    - **PHP:** For server-side scripting and handling backend logic.

User Interface Design:

- **Design Approach:** Web page
- **Rationale:** Focuses on creating a responsive and user-friendly interface using HTML, CSS, and JavaScript.

CHAPTER-3
MODULES AND FUNCTIONALATIES

3.1 Home Section

The BTECHWALA restaurant website needs a well-structured home section to serve as the main entry point for visitors. Below is a detailed breakdown of how to design and implement the home section

3.1.1 Elements of the Home Section:

The header section is crucial as it serves as the main navigation and the first point of contact for visitors. Here is a detailed breakdown and an example HTML structure for the header section, including the logo, navigation menu, search bar, and user account options.

- ℘ **Header:**

  - **Logo:** Prominently displayed logo of BTECHWALA.
  - **Navigation Menu:** Links to Home, Menu, About, Contact, and Book Table.
  - **Search Bar:** For searching specific menu items or information.
  - **User Account:** Login and Sign-Up options for users.

- ℘ **Hero Section:**

  - **Background Image/Video:** High-quality image or video of the restaurant or signature dishes.
  - **Headline:** A catchy and welcoming headline, e.g., "Welcome to BTECHWALA – Experience Culinary Excellence."
  - **Call-to-Action Buttons:** Buttons like "View Menu," "Order Now," and "Book a Table."

- ℘ **About Us:**

  - **Brief Introduction:** A short paragraph introducing the restaurant, its history, and uniqueness.
  - **Learn More Link:** Link to the full About page for more detailed information.

- ℘ **Featured Menu Items:**

  - **Dish Images and Descriptions:** A selection of popular or new dishes with images and brief descriptions.
  - **View Full Menu Button:** Link to the complete menu page.

℘ **Contact Information:**

- **Address:** Restaurant's physical address.
- **Phone Number:** Contact number for reservations and inquiries.
- **Email:** Contact email for support and feedback.
- **Map:** Embedded Google Map showing the restaurant's location.

℘ **Book a Table:**

- **Reservation Form:** Simple form to allow users to book a table, including fields for date, time, number of guests, and special requests.
- **Submit Button:** Button to submit the reservation request.

℘ **Footer:**

- **Contact Information:** Address, phone number, and email.
- **Social Media Links:** Icons linking to social media profiles.
- **Newsletter Subscription:** Form for subscribing to the newsletter.
- **Additional Links:** Links to Privacy Policy, Terms of Service, etc

User Interface:

Figure-1: Logo

Figure-2: Home Scree

HTML Structure:

```
<section id="hero">
  <div class="container">
   <div class="hero__wrapper">
    <div class="hero__left" data-aos="fade-left">
     <div class="hero__left__wrapper">

      <h1 class="hero__heading">The flavor of tradition</h1>
      <p class="hero__info">
       We are a btechwala restaurant offering a wide variety of food experience in both casual and fine
       dining
       environment.
      </p>
      <div class="button__wrapper">
       <a href="./menu.html" class="btn primary-btn">Explore Menu</a>
       <a href="./booking.html" class="btn">Book Table</a>
      </div>
     </div>
    </div>
    <div class="hero__right" data-aos="fade-right">
     <div class="hero__imgWrapper">
      <img src="./images/heroImg.png">
     </div>
    </div>
   </div>
  </div>
```
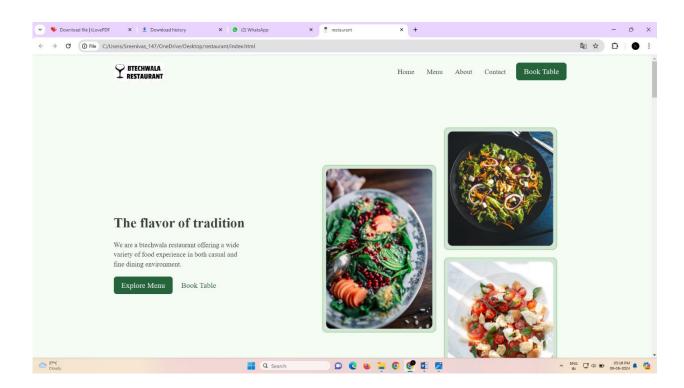
```
</section>
```

CSS Structure:

```css
/* hero section styles */
.hero__wrapper {
      display: flex;
      align-items: center;
      justify-content: center;
      flex-direction: column-reverse;
      gap: 5rem;
}
.hero__left__wrapper {
      max-width: 350px;
}
.hero__imgWrapper {
      max-width: 400px;
      width: 80%;
      margin: 0 auto;
}
.hero__heading {
      font-family: Poppins;
      font-weight: 600;
      line-height: 1.4em;
      text-align: center;
      font-size: 1.8rem;
      margin-bottom: 1.5rem;
      color: var(--black-1);
}
.hero__info {
      text-align: center;
      font-size: 1.4rem;
      margin-bottom: 1.5rem;
      color: var(--black-2);
}
```

Figure-3: Timing & Address

HTML Structure:

```html
<!-- Store Info Section -->
  <section id="storeInfo" data-aos="fade-up">
    <div class="container">
      <div class="storeInfo__wrapper">
        <div class="storeInfo__item">
          <div class="storeInfo__icon">
            <img src="./images/wall-clock-icon.svg" alt="clock icon">
          </div>
          <h3 class="storeInfo__title">
            10 AM - 7 PM
          </h3>
          <p class="storeInfo__text">
            Opening Hour
          </p>
        </div>
        <div class="storeInfo__item">
          <div class="storeInfo__icon">
            <img src="./images/address-icon.svg" alt="clock icon">
          </div>
          <h3 class="storeInfo__title">
            clock tower, ananthapur
          </h3>
          <p class="storeInfo__text">
            Address
          </p>
        </div>
```
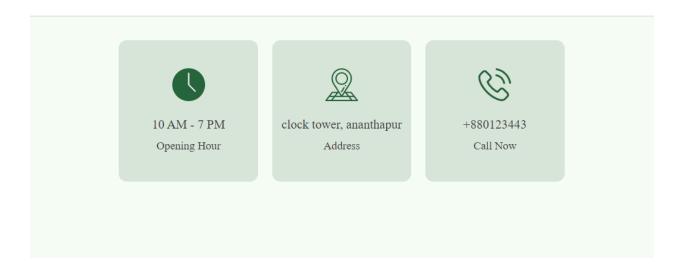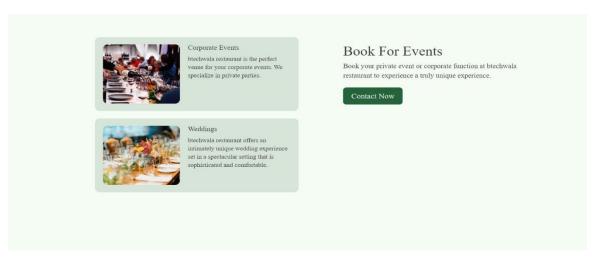
```
        <div class="storeInfo__item">
          <div class="storeInfo__icon">
            <img src="./images/phone-icon.svg" alt="clock icon">
          </div>
          <h3 class="storeInfo__title">
            +880123443
          </h3>
          <p class="storeInfo__text">
            Call Now
          </p>
        </div>
      </div>
    </div>
  </section>
```

CSS Structure:

```css
#ourSpecials {
        padding-top: 10rem;
}
.ourSpecials__wrapper {
        display: flex;
        flex-direction: column;
        gap: 3rem;
}
.ourSpecials__left {
        display: flex;
        gap: 1rem;
}
.ourSpecials__item {
        background-color: var(--lightGreen-1);
        padding: 1.2rem;
        padding-top: 5rem;
        border-radius: 12px;
        width: 45%;
        margin: 0 auto;
}
.ourSpecials__item__img {
        margin-top: calc(-50% - 2rem);
        margin-bottom: 2rem;
        border-radius: 12px;
        height: 150px;
        overflow: hidden;
}
.ourSpecials__item__img img {
        object-fit: cover;
}
.ourSpecials__item__title {
        font-size: 1.4rem;
        color: var(--black-1);
        font-weight: 600;
        margin-bottom: 1rem;
```

```
}
.ourSpecials__item__price {
        color: var(--green-1);
        font-size: 1.4rem;
        font-weight: 600;
        margin-bottom: 1rem;
}
.ourSpecials__item__stars {
        height: 1.5rem;
        width: max-content;
        margin-bottom: 1rem;
}
.ourSpecials__item__text {
        font-size: 1.4rem;
        color: var(--black-2);
        font-weight: 500;
}
.ourSpecials__title {
        font-size: 1.8rem;
        margin-bottom: 1.5rem;
        color: var(--black-1);
}
.ourSpecials__text {
        font-size: 1.4rem;
        color: var(--black-2);
        margin-bottom: 1rem;
}
```


Figure-4: Events Booking

HTML Structure:

```html
<section id="eventsMedia" data-aos="fade-up">
    <div class="container">
```

```
    <div class="eventsMedia__wrapper">
      <div class="eventsMedia__1">
        <img src="./images/eventsMedia1.png" alt="events">
        <a href="#" class="eventsMedia__1__playButton">
          <img src="./images/playIcon.svg" alt="play button">
        </a>
      </div>
      <div class="eventMedia__2">
        <img src="./images/eventsMedia2.png" alt="events">
      </div>
    </div>
  </div>
</section>
```

CSS Structure:

```
.eventsMedia__wrapper {
        display: flex;
        gap: 1rem;
}
.eventsMedia__1 {
        position: relative;
}
.eventsMedia__1__playButton {
        display: inline-block;
        position: absolute;
        left: 50%;
        top: 50%;
        transform: translate(-50%, -50%);
        max-width: 50px;
}
@media only screen and (min-width: 768px) {
        .eventsMedia__wrapper {
                gap: 2rem;
        }
        .eventsMedia__1__playButton {
                max-width: 100px;
        }
}
```

}

Figure-5: Customer Reviews

3.2 Menu Section

The menu section is one of the most important parts of a restaurant website, as it showcases the dishes available to customers. This section should be visually appealing, easy to navigate, and provide detailed information about each dish.

3.2.1 Elements of the Menu Section:

ℵ **Dish Listings:**

- **Dish Name:** Clear and descriptive name of the dish.
- **Description:** Brief description of the dish, highlighting key ingredients and flavors.
- **Image:** High-quality image of the dish.
- **Price:** Price of the dish.

ℵ **Specials or Featured Items:**

- **Highlight:** Special or featured items can be highlighted to draw attention.

ℵ **Filters and Search:**

- **Filter Options:** Options to filter by categories, dietary preferences (vegetarian, vegan, gluten-free), etc.
- **Search Bar:** Allow users to search for specific dishes.
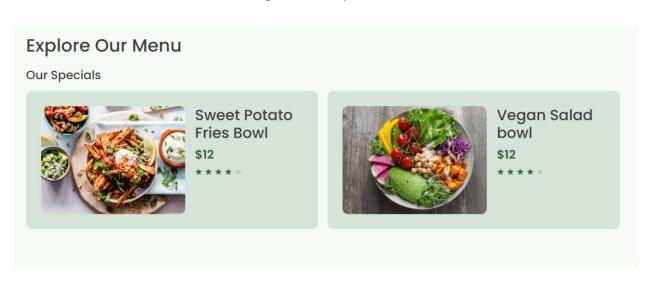
ℵ **Call-to-Action Buttons:**

- **Order Now:** Button to add items to the cart for online orders.

3.2.2 Menu Categories:

❁ *Special:*

The "Our Specials" section should highlight unique or seasonal dishes that the restaurant offers. This section should be visually engaging and provide clear information about each special dish. Below is the HTML structure along with the CSS for the "Our Specials" section.

Figure-6: Our Specials

HTML Structure:

```
<section id="ourSpecials" data-aos="fade-up">
    <div class="container">
      <div class="ourSpecials__wrapper">
        <div class="ourSpecials__left">
          <div class="ourSpecials__item">
            <div class="ourSpecials__item__img">
              <img src="./images/food-3.png" alt="food img">
            </div>
```

```html
        <h2 class="ourSpecials__item__title">
          Sweet Potato Fries Bowl
        </h2>
        <h3 class="ourSpecials__item__price">
          $18
        </h3>
        <div class="ourSpecials__item__stars">
          <img src="./images/3star.png" alt="3 stars">
        </div>
        <p class="ourSpecials__item__text">
          These Sweet Potato Fries bowl are a glorious, messy plate of goodness. Crispy
sweet potato fries loaded
          with lots of fresh summer vegetables and a lime ranch. By adding a seasoning
blend with chipotle powder,
          garlic, and onion, these spicy sweet potato fries are full of flavor.
        </p>
      </div>
      <div class="ourSpecials__item">
        <div class="ourSpecials__item__img">
          <img src="./images/food-1.png" alt="food img">
        </div>
        <h2 class="ourSpecials__item__title">
          Vegan Salad bowl
        </h2>
        <h3 class="ourSpecials__item__price">
          $18
        </h3>
        <div class="ourSpecials__item__stars">
          <img src="./images/3star.png" alt="3 stars">
        </div>
        <p class="ourSpecials__item__text">
          Vegan salad bowl are immensely satisfying with any combination of whole grains,
pulses, noodles, raw or
          cooked fruits, and veggies all topped off with a delicious sauce or dressing -
each bite is an explosion
          of flavors and textures.
        </p>
      </div>
    </div>
    <div class="ourSpecials__right">
      <h2 class="ourSpecials__title">
        Our Specials
      </h2>
      <p class="ourSpecials__text">
```
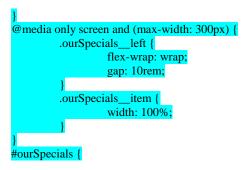
```
            All of our food is prepared daily at our restaurants to ensure the highest
quality, freshest meals are
            delivered to our customers
        </p>
        <a href="./booking.html" class="btn primary-btn">Book Table</a>
      </div>
    </div>
  </section>
```
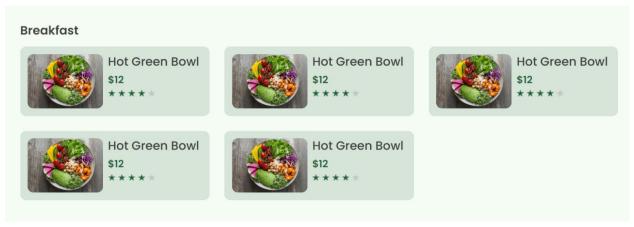
CSS Structure:

```
        padding-top: 10rem;
}
.ourSpecials__wrapper {
        display: flex;
        flex-direction: column;
        gap: 3rem;
}
.ourSpecials__left {
        display: flex;
        gap: 1rem;
}
.ourSpecials__item {
        background-color: var(--lightGreen-1);
        padding: 1.2rem;
        padding-top: 5rem;
        border-radius: 12px;
        width: 45%;
        margin: 0 auto;
}
.ourSpecials__item__img {
        margin-top: calc(-50% - 2rem);
        margin-bottom: 2rem;
        border-radius: 12px;
        height: 150px;
        overflow: hidden;
}
.ourSpecials__item__img img {
        object-fit: cover;
}
.ourSpecials__item__title {
        font-size: 1.4rem;
        color: var(--black-1);
        font-weight: 600;
        margin-bottom: 1rem;
}
.ourSpecials__item__price {
        color: var(--green-1);
        font-size: 1.4rem;
        font-weight: 600;
        margin-bottom: 1rem;
}
.ourSpecials__item__stars {
```

```css
            height: 1.5rem;
            width: max-content;
            margin-bottom: 1rem;
}
.ourSpecials__item__text {
            font-size: 1.4rem;
            color: var(--black-2);
            font-weight: 500;
}
.ourSpecials__title {
            font-size: 1.8rem;
            margin-bottom: 1.5rem;
            color: var(--black-1);
}
.ourSpecials__text {
            font-size: 1.4rem;
            color: var(--black-2);
            margin-bottom: 1rem;
}
@media only screen and (min-width: 768px) {
            #ourSpecials {
                        padding-top: 15rem;
            }
            #ourSpecials .container {
                        max-width: 900px;
            }
            .ourSpecials__wrapper {
                        flex-direction: row;
            }
            .ourSpecials__right {
                        flex: 2;
            }
            .ourSpecials__left {
                        flex: 4;
                        gap: 2rem;
            }
            .ourSpecials__item {
                        padding: 2rem;
            }
            .ourSpecials__item__title {
                        font-size: 2.4rem;
                        line-height: 1.4em;
                        margin-bottom: 1.5rem;
            }
            .ourSpecials__item__price {
                        font-size: 1.8rem;
                        margin-bottom: 1rem;
            }
            .ourSpecials__item__stars {
                        margin-bottom: 2rem;
            }
            .ourSpecials__item__text {
                        font-size: 1.6rem;
            }
            .ourSpecials__title {
                        font-size: 3.6rem;
                        margin-bottom: 1.5rem;
            }
            .ourSpecials__text {
                        font-size: 1.8rem;
                        margin-bottom: 1.5rem;
            }
```
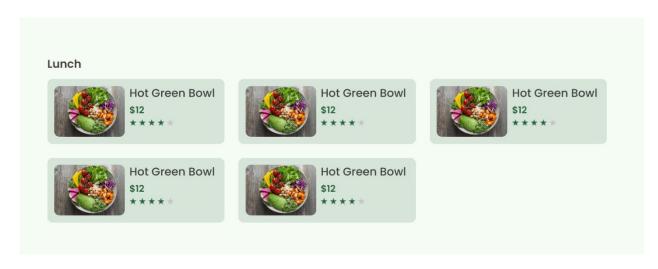
```
}
@media only screen and (max-width: 300px) {
        .ourSpecials__left {
                flex-wrap: wrap;
                gap: 10rem;
        }
        .ourSpecials__item {
                width: 100%;
        }
}
#ourSpecials {
```

✎ *Breakfast:*

Figure-7: Breakfast

✎ *Lunch:*

The "Lunch" section should feature a variety of lunch options available at BTECHWALA restaurant. Below is the HTML structure and corresponding CSS for the "Lunch" section.
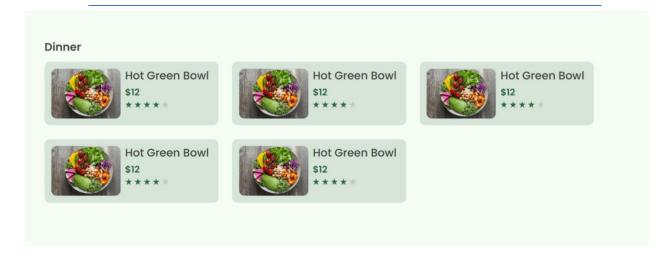
🖎 *Dinner:*

The "Dinner" section should highlight the dinner options available at BTECHWALA restaurant. Below is the HTML structure and corresponding CSS for the "Dinner" section.

Figure-9: Dinner

3.3 About Section

The "About Us" section will give visitors insight into the history and essence of BTECHWALA restaurant. Below is the HTML structure and corresponding CSS for the "About Us" section.

3.3.1 Our Story:

Welcome to btechwala restaurant. We take pride in delivering warm, friendly service and creating mouth-watering culinary delights for all. Using only the freshest locally sourced ingredients, we'll ensure you have dining experience to remember.

Since 1998, we are the perfect place for a romantic meal for two, a catch-up with friends, family parties, business meetings, and bringing loved ones together. With comfortable surroundings, affordable prices, and seating for up to 65 guests, we can cater for all occasions.
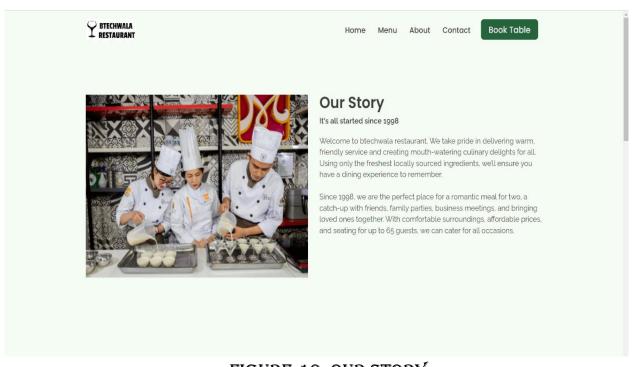

FIGURE-10: OUR STORY

3.3.2 Our Goals:

We shall sell delicious and remarkable food and beverages that meet the highest quality, freshness, and seasonality criteria while combining modern-creative and classic cooking traditions. By showcasing warmth, graciousness, efficiency, skill, professionalism, and integrity in our work, we will continually serve our consumers with exceptional service. To have every customer who comes through our doors leave impressed by their experience at btechwala restaurant and excited to come back again.

FIGURE-11: OUR GOALS

HTML Structure:

```
<section id="ourStory" data-aos="fade-up">
  <div class="container">
    <div class="ourStory__wrapper">

    <div class="ourStory__img">
      <img src="./images/ourStoryImg.png" alt="shaif's cuisine">
    </div>
    <div class="ourStory__info">
      <h3 class="ourStory__title">
        Our Story
      </h3>
      <p class="ourStory__subtitle">
        It's all started since 1998
```

```html
        </p>
        <p class="ourStory__text">
         Welcome to btechwala restaurant. We take pride in delivering warm, friendly service and creating mouth-watering
         culinary delights for all. Using only the freshest locally sourced ingredients, we'll ensure you have a
         dining
         experience to remember.
         <br><br>
         Since 1998, we are the perfect place for a romantic meal for two, a catch-up with friends, family parties,
         business meetings, and bringing loved ones together. With comfortable surroundings, affordable prices, and
         seating for up to 65 guests, we can cater for all occasions.
        </p>
       </div>
      </div>
     </section>
     <!-- End Our Story Section -->
     <!-- Our Goals -->
     <section id="ourGoals" data-aos="fade-down">
      <div class="container">
       <div class="ourGoals__info">
        <h3 class="ourGoals__title">
         Our Goals
        </h3>
        <p class="ourGoals__text">
         We shall sell delicious and remarkable food and beverages that meet the highest quality, freshness, and
         seasonality criteria while combining modern-creative and classic cooking traditions. By showcasing warmth,
         graciousness, efficiency, skill, professionalism, and integrity in our work, we will continually serve our
         consumers with exceptional service. To have every customer who comes through our doors leave impressed by
         their experience at btechwala restaurant and excited to come back again.
        </p>
       </div>
       <div class="ourGoals__imgs__wrapper" data-aos="fade-up">
        <div class="ourGoals__img1">
         <img src="./images/ourGoals_img1.png" alt="kitchen img">
        </div>
        <div class="ourGoals__img2">
         <img src="./images/ourGoals_img2.png" alt="kitchen img">
        </div>
        <div class="ourGoals__img3">
         <img src="./images/ourGoals_img3.png" alt="kitchen img">
        </div>
       </div>
      </div>
     </section>
```

CSS Structure:

```css
/* Our Story Styles */
.ourStory__wrapper {
        display: flex;
        flex-direction: column;
        gap: 2rem;
}
.ourStory__title,
.ourGoals__title {
        font-size: 1.8rem;
        font-weight: 600;
        color: var(--black-1);
        margin-bottom: 1rem;
}
.ourStory__subtitle {
```

```css
            font-size: 1.4rem;
            font-weight: 600;
            color: var(--black-1);
            margin-bottom: 2rem;
}
.ourStory__text,
.ourGoals__text {
            font-size: 1.4rem;
            line-height: 1.4em;
            color: var(--black-2);
}
@media only screen and (min-width: 768px) {
            .ourStory__wrapper {
                        flex-direction: row;
                        gap: 3rem;
            }
            .ourStory__img,
            .ourStory__info {
                        flex: 1;
            }
            .ourStory__title,
            .ourGoals__title {
                        font-size: 3.6rem;
            }
            .ourStory__subtitle {
                        font-size: 1.8rem;
            }
            .ourStory__text,
            .ourGoals__text {
                        font-size: 1.8rem;
                        max-width: 800px;
            }
}

/* Our Goals Styles */

.ourGoals__info {
            text-align: left;
            margin-bottom: 5rem;
}
.ourGoals__imgs__wrapper img {
            object-fit: cover;
}
.ourGoals__imgs__wrapper {
            max-width: 800px;
            margin: 0 auto;
            display: grid;
            grid-template-columns: 1fr 1fr;
            grid-template-rows: 1fr 1fr;
            grid-row: auto;
            gap: 1rem;
}
.ourGoals__img1 {
            grid-row: 1/3;
}
@media only screen and (min-width: 768px) {
            .ourGoals__info {
                        text-align: center;
            }
            .ourGoals__imgs__wrapper {
                        gap: 2rem;
            }
            .ourGoals__text {
                        margin: 0 auto;
            }
}
```

3.3 Contact Section

The Contact
section is crucial for providing visitors with information on how to reach the restaurant. It should be easy to find and navigate, offering multiple methods for contacting the restaurant.

3.3.1 Elements of the Contact Section:

✍ **Contact Information:**

- **Address:** The physical address of the restaurant.
- **Phone Number:** A contact number for reservations and inquiries.
- **Email Address:** An email for support and feedback.

FIGURE-11: CONTACT INFORAMATION

✍ **Contact Form:**

- **Name:** Input field for the user's name.
- **Email:** Input field for the user's email address.
- **Subject:** Input field for the subject of the message.
- **Message:** Textarea for the user's message or inquiry.
- **Submit Button:** Button to send the message.

FIGURE-12: CONTACT&INQUIRY

FIGURE-13: CONTACT FILLED DETAILS

HTML Structure:

```
<!-- Contact Form Section -->
<section id="form" data-aos="fade-down">
  <div class="container">
    <h3 class="form__title">
```

```html
    Contact & Inquiry
  </h3>
  <div class="form__wrapper">
    <form name="contact" method="POST" netlify>
      <div class="form__group">
        <label for="firstName">First Name</label>
        <input type="text" id="firstName" name="First Name" required>
      </div>
      <div class="form__group">
        <label for="lastName">Last Name</label>
        <input type="text" id="lastName" name="Last Name" required>
      </div>
      <div class="form__group">
        <label for="email">Email</label>
        <input type="email" id="email" name="Email" required>
      </div>
      <div class="form__group">
        <label for="subject">Subject</label>
        <input type="text" id="subject" name="Subject" required>
      </div>
      <div class="form__group form__group__full">
        <label for="message">Message</label>
        <textarea name="Message" id="message" cols="30" rows="10" required></textarea>
      </div>
      <button type="submit" class="btn primary-btn">Send</button>
    </form>
  </div>
</div>
</section>
```
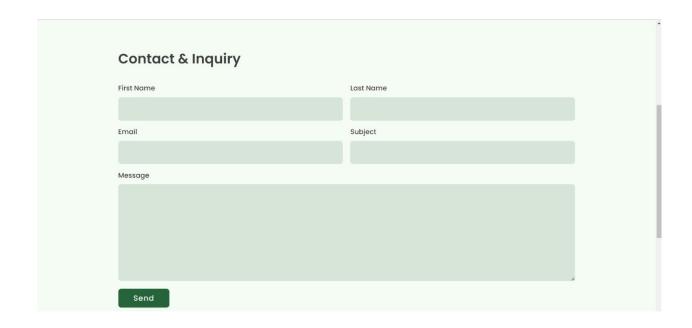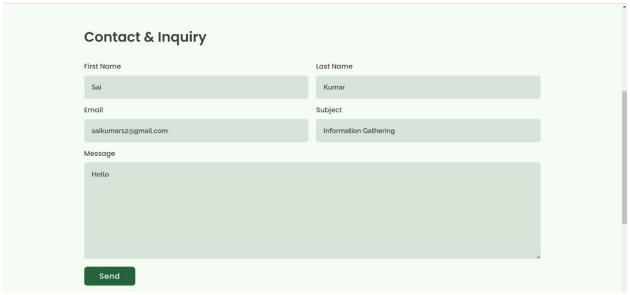
JavaScript Structure:

```javascript
const navCloseEl = document.querySelector('.nav__close');
const navList = document.querySelector('.nav__list');
const navIconEl = document.querySelector('.nav__icon');
const navBgOverlayEl = document.querySelector('.nav__bgOverlay');


window.addEventListener('DOMContentLoaded', () =>{
```

```javascript
    document.body.style.visibility = 'visible';
});

const navOpen = () => {
    navList.classList.add('show');
  navBgOverlayEl.classList.add('active');
  document.body.style= 'visibility: visible; height: 100vh; width:100vw;
overflow:hidden;';
}

const navClose = () => {
  navList.classList.remove('show');
    navBgOverlayEl.classList.remove('active');
  document.body.style= 'visibility: visible; height: initial; width: 100%;
overflow-x: hidden;';
}

navIconEl.addEventListener('click', navOpen);

navCloseEl.addEventListener('click', navClose);

navBgOverlayEl.addEventListener('click', navClose)

// AOS
// AOS.refreshHard();
AOS.init({
  offset: 200, // offset (in px) from the original trigger point
  delay: 100, // values from 0 to 3000, with step 50ms
  duration: 400, // values from 0 to 3000, with step 50ms
  easing: 'ease', // default easing for AOS animations
  once: false, // whether animation should happen only once - while scrolling
down
  mirror: false, // whether elements should animate out while scrolling past them
  anchorPlacement: 'top-bottom', // defines which position of the element
regarding to window should trigger the animation
});

// const dishGridEl = Array.from(document.querySelectorAll('#dishGrid'));
// if (dishGridEl.length > 0){
//   // console.log(dishGridEl)
//   dishGridEl.forEach(item => {
//     item.setAttribute('data-aos', 'fade-up');
//   })
// }
```

3.4 Table Book Section:

The Table Booking section allows customers to reserve a table at the restaurant easily. This section should be straightforward, user-friendly, and provide a seamless booking experience.

3.4.1 Elements of the Menu Section:

℘ **Header:**

- **Logo:** Prominently displayed logo of BTECHWALA.
- **Navigation Menu:** Links to Home, Menu, About, Contact, and Book Table.

℘ **Booking Form:**

- **First Name:** First name of the Customer
- **Last Name:** Second name of the customer
- **Email:** To contact with customers
- **Guest Mobile Number:** Mobile number of the customer
- **Date Picker:** Allow users to select the date for their reservation.
- **Time Picker:** Allow users to select the time for their reservation.
- **Number of Guests:** Input for the number of guests.
- **Special Requests:** Text area for any special requests or additional information.
- **Note:** If any queries, directly ask with is the note section
- **Submit Button:** Button to submit the reservation request.

℘ **Confirmation Message:**

- **Success Message:** Display a confirmation message upon successful booking.
- **Contact Information:** Provide contact details for any changes or cancellations.

User Interface:

Figure-14: BOOK TABLE

Figure-14: BOOK TABLE

HTML Structure:

```
<section id="form" data-aos="fade-up">
```

```html
  <div class="container">
    <h3 class="form__title">Book Table</h3>
    <div class="form__wrapper">
      <form name="booking" method="POST" netlify>
        <div class="form__group">
          <label for="firstName">First Name</label>
          <input type="text" id="firstName" name="First Name" required>
        </div>
        <div class="form__group">
          <label for="lastName">Last Name</label>
          <input type="text" id="lastName" name="Last Name" required>
        </div>
        <div class="form__group">
          <label for="email">Email</label>
          <input type="email" id="email" name="Email" required>
        </div>
        <div class="form__group">
          <label for="tableType">Table Type</label>
          <select name="Table Type" id="tableType" required>
            <option selected disabled>Choose</option>
            <option value="small">Small(2 persons)</option>
            <option value="medium">Small(4 persons)</option>
            <option value="large">large(6 persons)</option>
          </select>
        </div>
        <div class="form__group">
          <label for="guestNumber">Guest Number</label>
          <input type="number" id="guestNumber" name="Guest Number" min="1" max="10"
required>
        </div>
        <div class="form__group">
          <label for="placement">Placement</label>
          <select name="Placement" id="placement">
            <option selected disabled>Choose</option>
            <option value="outdoor">Outdoor</option>
            <option value="indoor">Indoor</option>
            <option value="rooftop">rooftop</option>
          </select>
        </div>
        <div class="form__group">
          <label for="date">Date</label>
          <input type="date" id="date" name="Date" required>
        </div>
        <div class="form__group">
          <label for="time">time</label>
```
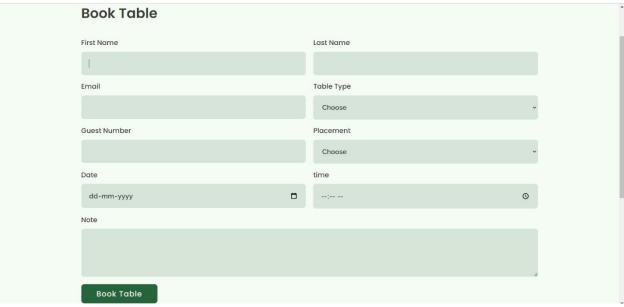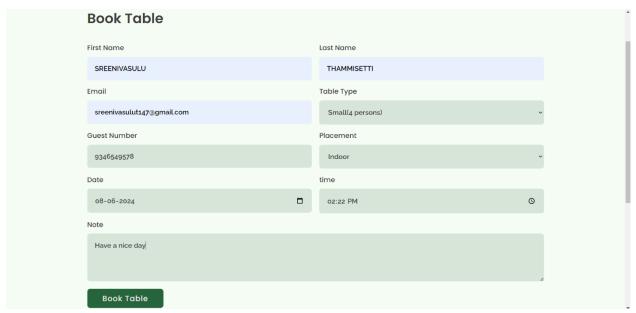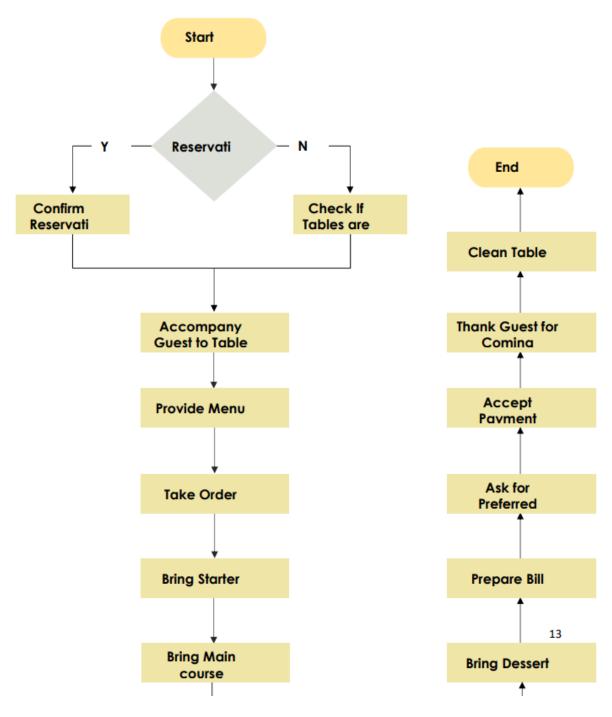
```
            <input type="time" id="time" name="Time" required>
          </div>
          <div class="form__group form__group__full">
            <label for="note">Note</label>
            <textarea name="Note" id="note" rows="4"></textarea>
          </div>
          <button type="submit" class="btn primary-btn">Book Table</button>
        </form>
      </div>
    </div>
  </section>
```

JavaScript Structure:

```javascript
const navCloseEl = document.querySelector('.nav__close');
const navList = document.querySelector('.nav__list');
const navIconEl = document.querySelector('.nav__icon');
const navBgOverlayEl = document.querySelector('.nav__bgOverlay');


window.addEventListener('DOMContentLoaded', () =>{
  document.body.style.visibility = 'visible';
});

const navOpen = () => {
   navList.classList.add('show');
  navBgOverlayEl.classList.add('active');
  document.body.style= 'visibility: visible; height: 100vh; width:100vw;
overflow:hidden;';
}

const navClose = () => {
  navList.classList.remove('show');
  navBgOverlayEl.classList.remove('active');
  document.body.style= 'visibility: visible; height: initial; width: 100%;
overflow-x: hidden;';
}

navIconEl.addEventListener('click', navOpen);

navCloseEl.addEventListener('click', navClose);

navBgOverlayEl.addEventListener('click', navClose)
```

```javascript
// AOS
// AOS.refreshHard();
AOS.init({
  offset: 200, // offset (in px) from the original trigger point
  delay: 100, // values from 0 to 3000, with step 50ms
  duration: 400, // values from 0 to 3000, with step 50ms
  easing: 'ease', // default easing for AOS animations
  once: false, // whether animation should happen only once - while scrolling
down
  mirror: false, // whether elements should animate out while scrolling past them
  anchorPlacement: 'top-bottom', // defines which position of the element
regarding to window should trigger the animation
});

// const dishGridEl = Array.from(document.querySelectorAll('#dishGrid'));
// if (dishGridEl.length > 0){
//   // console.log(dishGridEl)
//   dishGridEl.forEach(item => {
//     item.setAttribute('data-aos', 'fade-up');
//   })
// }
```

CHAPTER-4
DIAGRAM REPRESENTATION

4.1 Use Case Diagram:

Start

Reservati

Y → Confirm Reservati

N → Check If Tables are

Accompany Guest to Table

Provide Menu

Take Order

Bring Starter

Bring Main course

End

Clean Table

Thank Guest for Comina

Accept Pavment

Ask for Preferred

Prepare Bill

13

Bring Dessert

CHAPTER-5
CONCLUSION

This chapter concludes the report of this project. This chapter starts with discussing the achievements of this project. Following that, it describes the limitations in the system. It then proposes and recommends some features to be added to the system. Finality, the chapter ends by concluding remarks.

5.1 Achievement of the Project:

The project has gone through a series of activities to develop a complex solution for the Restaurant website . After analysis of the project's goal and research direction, a set of objectives were established. All the activities done during the project were attempts to realise these objectives. At the end of the project, the developed prototype website has fulfilled these objectives by the following means:

Objective #1 was satisfied by reviewing the past works for automating the restaurant website process. Along with this, the web services 22 development technologies is briefly discussed.

Objective #2 was addressed by utilising Extreme Programming method of Development. Along with this, xammp tools are used to analyse and design the system.

Objective #3 was satisfied by developing the system with CSS and JavaScript.

Objective #4 was addressed with various testing approaches to ensure the prototype system is as robust as possible.

The project was time-consuming. It has been tried to implement as many features as possible within the very limited timeframe. It has successfully satisfied the Functional Requirements. Some Non-functional Requirements of the system is not implemented. These requirements have top priority and reflect the most needed features. Some requirements are not implemented due to time constraints.

However, their absence would not result in major operational issues as they are the lower priority features. These features could be implemented in the future.

5.2 Limitaion of the System:

There are also some limitations of the system. The shopping cart of the system has not been implimented functionalities and does not support advanced cart modification features. Along with this, validation functionalities and almost all functionalities of the application are handled with server side programming. It makes extra load on the server, especially when the application gets lots of viewers. This limitation can be minimised by validating data using client side language like JavaScript or HTML 5. But the controllers and functions for pushing data into order table is not written.

In conclusion, our comprehensive analysis of the restaurant's website reveals several key strengths and opportunities for improvement that can enhance the overall user experience and drive more business. The website effectively showcases the restaurant's unique ambiance, diverse menu offerings, and commitment to quality, which are crucial elements in attracting and retaining customers. High-quality images, engaging content, and seamless navigation contribute significantly to its appeal.

However, there are areas where the website can be optimized further. Enhancing the mobile responsiveness will ensure a smoother experience for users accessing the site on their smartphones, a crucial factor given the increasing trend of mobile searches. Additionally, improving the loading speed and optimizing SEO strategies can increase visibility and attract a broader audience.

Implementing an integrated online reservation and ordering system can streamline operations and provide added convenience for customers. Regular updates to the blog and social media integration will keep the content fresh and engaging, fostering a stronger connection with the audience.

By addressing these recommendations, the restaurant can significantly boost its online presence, attract more visitors, and ultimately, increase customer satisfaction and loyalty. The website has the potential to be a powerful tool in the restaurant's marketing strategy, driving growth and success in the competitive dining industry.

Thank You