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|  | **KONGU ENGINEERING COLLEGE**  (Autonomous)  Perundurai, Erode – 638 060  **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING** | KEC | Kongu Engineering College |

**Hospital Management System**

**AN APPLICATION PROJECT REPORT**

**for**

**PYTHON PROGRAMMING AND FRAMEWORKS (22CSC41)**

**Submitted by**

**M.ARVIND (22CSR023)**

**S. ASHWANTH (22CSR025)**

**V.M. DARUN ADHITHYA (22CSR036)**

**M.GAURAV ADHITHYA (22CSR054)**

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**BONAFIDE CERTIFICATE**

Name :

Course Code : **22CSC41**

Course Name : **PYTHON PROGRAMMING AND FRAMEWORKS**

Semester : **IV**

Certified that this is a bonafide record of work for application project done by the above students for **22CSC41 – PYTHON PROGRAMMING AND FRAMEWORKS** during the academic year **2023 - 2024.**

Submitted for the Viva Voce Examination held on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Faculty In-Charge Head of the Department**

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**1.ABSTRACT**

This project focuses on developing an efficient and user-friendly Food Ordering System (FOS) aimed at enhancing the operational workflow of restaurants by digitalizing the order management process. The traditional methods of managing food orders, maintaining menus, and handling billing procedures are often prone to errors, inefficiencies, and unnecessary consumption of time and resources. This project identifies these challenges and provides a comprehensive solution.

The methodology adopted for the development of the FOS includes the design and implementation of an intuitive web-based interface using modern web technologies such as HTML, CSS, and JavaScript, along with a robust backend server to handle data storage and processing. The system facilitates seamless menu browsing, order placement, and real-time bill generation, ensuring a smooth and efficient user experience.

Key features of the FOS include:

1. **Menu Management:** Display of categorized menu items (vegetarian and non-vegetarian) with detailed descriptions and images, enabling users to make informed choices.
2. **Order Placement:** Easy-to-use interface for placing orders with a simple click, along with real-time updates and notifications for successful order placements.
3. **Order Summary:** An integrated order summary section that provides users with an overview of their current order, including itemized details and total amount.
4. **Billing:** Automated bill generation upon order confirmation, reducing manual intervention and ensuring accuracy.

The implementation of the FOS has shown significant improvements in the efficiency and accuracy of restaurant operations. By automating the order management process, the system minimizes human errors, reduces order processing time, and enhances data security. The user-friendly interface ensures that both customers and staff can interact with the system with ease, improving overall satisfaction and productivity.

Comparative analysis with existing manual and semi-automated systems indicates a substantial increase in reliability and integration capabilities of the FOS. The system's scalability allows for future enhancements such as appointment scheduling, customer feedback integration, real-time order tracking, and advanced analytics, which can further optimize restaurant operations and customer experience.

In conclusion, the developed Food Ordering System represents a significant step towards modernizing restaurant management by leveraging technology to improve efficiency, accuracy, and customer satisfaction.

**2.PROBLEM STATEMENT**

**Background**

In the food service industry, effective management of order data is crucial for ensuring high-quality customer service and operational efficiency. Restaurants handle large volumes of information daily, including menu details, customer orders, billing information, and inventory data. Traditional manual systems or outdated semi-automated solutions often struggle to cope with the volume and complexity of this data, leading to numerous challenges.

**Past Status of the Problem**

Historically, restaurants relied heavily on paper-based systems for managing customer orders and billing. While this method was the standard for many years, it posed significant drawbacks. Paper records are susceptible to physical damage, loss, and misplacement. Additionally, manual entry and retrieval of order data are time-consuming processes prone to human errors. These errors can have severe consequences, such as incorrect orders, billing mistakes, and customer dissatisfaction. Furthermore, the lack of a centralized system often made it difficult to track inventory levels accurately, leading to either overstocking or stockouts.

**Present Status and Current Solutions**

In recent years, many restaurants have transitioned to digital systems to address the inefficiencies of manual record-keeping. However, even these digital systems often lack full integration, leading to data silos where different parts of the restaurant's operations (such as the kitchen, front-of-house, and inventory management) use separate systems that do not communicate effectively. This fragmentation can result in data inconsistencies and duplication, further complicating order management and customer service. Current solutions may include point-of-sale (POS) systems that handle billing but do not fully integrate with inventory management or online ordering platforms.

**Need for a Comprehensive Solution**

The current landscape highlights the need for a comprehensive Food Ordering System (FOS) that integrates all aspects of order data management into a single, cohesive platform. An effective FOS should:

* **Streamline Data Management:** Consolidate menu details, customer orders, billing information, and inventory levels into a unified system.
* **Reduce Human Error:** Automate data entry and validation processes to minimize errors in orders and billing.
* **Enhance Data Security:** Implement robust security measures to protect sensitive customer information and transaction data.
* **Improve Operational Efficiency:** Reduce time spent on administrative tasks, allowing restaurant staff to focus more on customer service and food preparation.
* **Enable Data Integration:** Ensure seamless communication between different parts of the restaurant, providing a holistic view of order data and inventory levels.
* **Support Online and Offline Orders:** Integrate both in-restaurant and online orders to provide a consistent and efficient service.

**Proposed Solution Overview**

Our proposed solution is a Food Ordering System developed using modern web technologies such as HTML, CSS, JavaScript for the frontend, and a backend server for data management, utilizing a relational database like MySQL or a NoSQL database depending on the requirements. This system aims to address the shortcomings of existing solutions by providing a fully integrated, secure, and user-friendly platform for managing restaurant data. Key features of the FOS include:

* **Menu Management:** An interface for adding, updating, and deleting menu items, including categories for vegetarian and non-vegetarian dishes.
* **Order Placement:** A streamlined process for customers to place orders, either in-restaurant via tablets or online via a web application.
* **Billing and Payments:** Automated billing and payment processing to ensure quick and accurate transactions.
* **Inventory Management:** Real-time tracking of inventory levels to ensure that ingredients are always available for preparing orders.
* **Reporting and Analytics:** Tools for generating reports on sales, popular dishes, and inventory usage to aid in decision-making.
* **User Roles and Access Control:** Different access levels for staff, managers, and administrators to ensure security and efficient workflow.

**Objectives**

The primary objectives of the proposed FOS are:

* **To provide a reliable and accurate method for managing menu information and customer orders.**
* **To enhance the efficiency of restaurant operations by reducing the time required for data entry and retrieval.**
* **To ensure the security and confidentiality of customer data through robust access controls and encryption.**
* **To offer an integrated solution that eliminates data silos and promotes seamless communication between different parts of the restaurant.**
* **To provide tools for better inventory management and reduce waste.**
* **To improve customer satisfaction by streamlining the ordering and billing process.**

**Implementation Methodology**

To achieve these objectives, the implementation of the FOS will follow these steps:

1. **Requirement Analysis:** Gather detailed requirements from stakeholders, including restaurant managers, staff, and customers.
2. **System Design:** Create a comprehensive design for the system, including database schema, user interfaces, and system architecture.
3. **Development:** Develop the frontend using HTML, CSS, and JavaScript, and the backend using a suitable server-side language (such as Node.js, Python, or PHP) and a database system (MySQL or MongoDB).
4. **Integration:** Ensure seamless integration of the different modules, such as order placement, billing, and inventory management.
5. **Testing:** Perform rigorous testing to identify and fix any bugs or issues.
6. **Deployment:** Deploy the system in the restaurant environment and provide training to staff.
7. **Maintenance:** Provide ongoing support and maintenance to address any issues and implement future enhancements.

By following this methodology, the proposed Food Ordering System aims to transform the way restaurants manage their operations, leading to increased efficiency, reduced errors, and enhanced customer satisfaction.

### 3.METHODOLOGY

**System Design**

The design of the Food Ordering System (FOS) focuses on creating a comprehensive and integrated platform that handles various aspects of restaurant management, including menu management, order placement, billing, and inventory tracking. The system is developed using modern web technologies such as HTML, CSS, and JavaScript for the frontend interface, with a backend server using a suitable server-side language (such as Node.js, Python, or PHP) and a database system like MySQL or MongoDB for data storage.

**User Interface Design**

The user interface is designed to be intuitive and user-friendly, allowing restaurant staff and customers to easily input and retrieve order data. The main components of the interface include:

- Menu Management: Interfaces to input, update, and manage menu items, including categories for vegetarian and non-vegetarian dishes.

- Order Placement: Tools for customers to place orders, either in-restaurant via tablets or online via a web application.

- Billing and Payments: Functionality to generate bills, process payments, and manage transactions.

- Data Retrieval: Functionality to search and display order records, menu items, and inventory levels**.**

**Database Design**

The database is designed to store all order-related information securely and efficiently. Key tables in the database include:

- Menu Information: Stores details of menu items, including names, prices, and categories.

- Order Information: Stores details of customer orders, including order items, quantities, prices, and timestamps.

- Transaction Logs: Keeps track of all changes made to the database for auditing purposes.

- Inventory Information: Tracks inventory levels of ingredients and supplies.

**Data Flow**

The data flow between the user interface and the database is managed through a set of functions that handle data validation, insertion, retrieval, and updates. This ensures data integrity and consistency across the system. The flow of data is as follows:

1. Data Entry: User inputs data through the web forms.

2. Data Validation: The system validates the entered data to ensure accuracy and completeness.

3. Data Storage: Validated data is stored in the database.

4. Data Retrieval: User queries retrieve data from the database and display it in the user interface.

5. Data Update: User updates are validated and then stored in the database, maintaining the integrity of the data.

**Methods and Outputs**

The methodology includes several key steps and their respective outputs:

1. Requirement Analysis: Identify the needs and requirements of the food ordering system.

- Output: Detailed requirements document outlining the system's functionalities.

2. System Design: Design the system architecture, user interface, and database schema.

- Output: System design documents including UI mockups and database schema diagrams.

3. Development: Develop the system using appropriate web technologies and database systems.

- Output: Fully functional Food Ordering System software.

4. Testing: Perform comprehensive testing to ensure the system works as expected and handles data correctly.

- Output: Test reports highlighting any issues and their resolutions.

5. Deployment: Deploy the system in a restaurant environment and provide training to staff.

- Output: Deployed FOS and trained restaurant staff.

**Pros and Cons of the Methodology**

**Pros:**

- Efficiency: The system significantly reduces the time required for order placement and billing.

- Accuracy: Automated data validation minimizes errors, ensuring accurate order and billing information.

- Security: Robust security measures protect sensitive customer data and transaction information.

- Integration: The system provides a unified platform, eliminating data silos and promoting seamless communication between different parts of the restaurant.

- User-Friendly: The intuitive interface requires minimal training for restaurant staff and is easy for customers to use.

**Cons:**

- Initial Setup: Setting up the system requires an initial investment of time and resources.

- Data Migration: Migrating existing data from manual or semi-automated systems to the new FOS can be challenging.

- Technical Dependence: The system relies on technology, and any technical issues could disrupt restaurant operations.

**Conclusion of Methodology**

The chosen methodology provides a comprehensive approach to developing a Food Ordering System that addresses the critical needs of modern restaurants. By leveraging modern web technologies and robust database systems, the FOS ensures efficiency, accuracy, security, and integration, ultimately improving customer service and restaurant operations.

**4.IMPLEMENTATION**

**User Interface Development**

The user interface is developed using modern web technologies to create a seamless and engaging experience for both restaurant staff and customers. HTML, CSS, and JavaScript are employed for frontend development, while frameworks such as React or Vue.js may be used to enhance the interactivity and responsiveness of the interface.

**Key Components:**

* **Main Dashboard:** The main dashboard contains navigation links to access different functionalities, such as managing the menu, placing orders, viewing order history, and handling billing.
* **Menu Management Interface:** This interface allows users to input, update, and manage menu items, including categories, prices, and availability.
* **Order Placement Interface:** This interface enables customers to browse the menu, select items, specify quantities, and place orders. It also includes options for special instructions and customizations.
* **Billing and Payments Interface:** This interface handles the generation of bills, processing of payments, and management of transactions.
* **Order History and Data Display Area:** A dedicated area to display past orders and transaction records, allowing users to view and update information easily.

**Database Setup**

The database is set up using MySQL or MongoDB, with tables or collections designed to store menu items, customer orders, transactions, and logs securely and efficiently. The schema is normalized to avoid redundancy and ensure data integrity. Key tables or collections include:

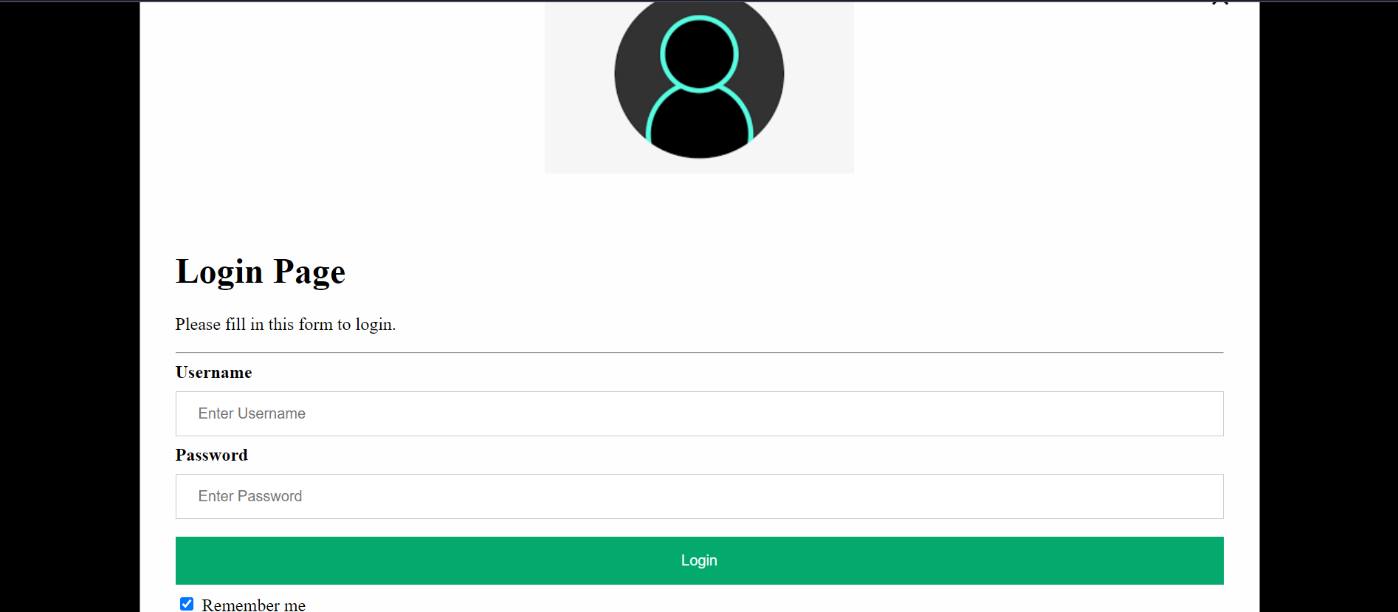
* **Menu Items:** Stores details such as item ID, name, category, price, and availability.
* **Customer Orders:** Stores details of orders, including order ID, customer information, items ordered, quantities, prices, and timestamps.
* **Transactions:** Keeps track of all financial transactions, including payment methods and amounts.
* **Logs:** Records all system activities and changes made to the database for auditing purposes.

**Data Handling Functions**

Several functions are written to handle various operations such as adding new records, updating existing ones, deleting records, and fetching data for display. These functions include error handling to manage cases where data might be missing or incorrect

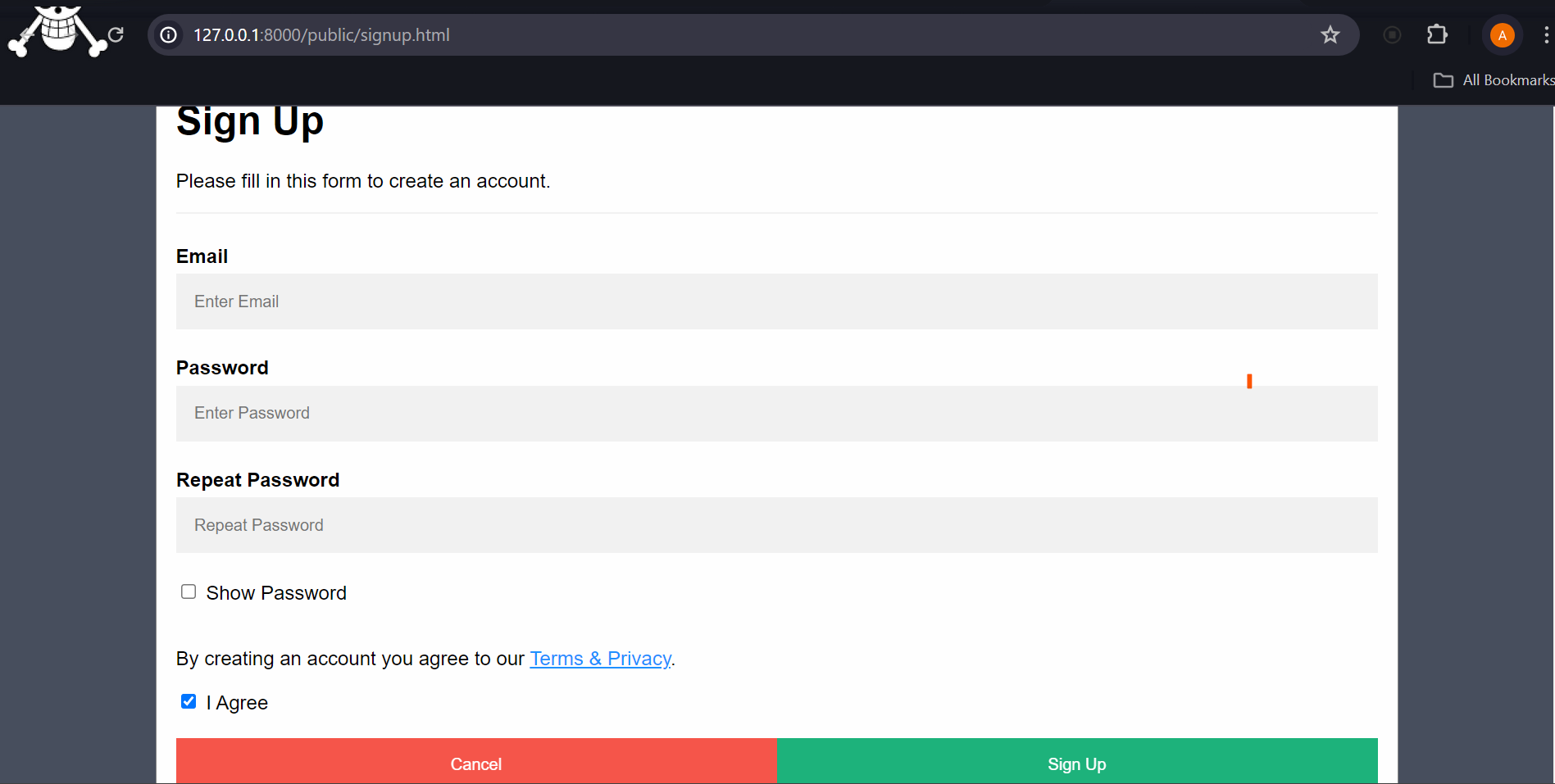
#### **Key Functions:**

* **Login page : The user can login and access food ordering page** .



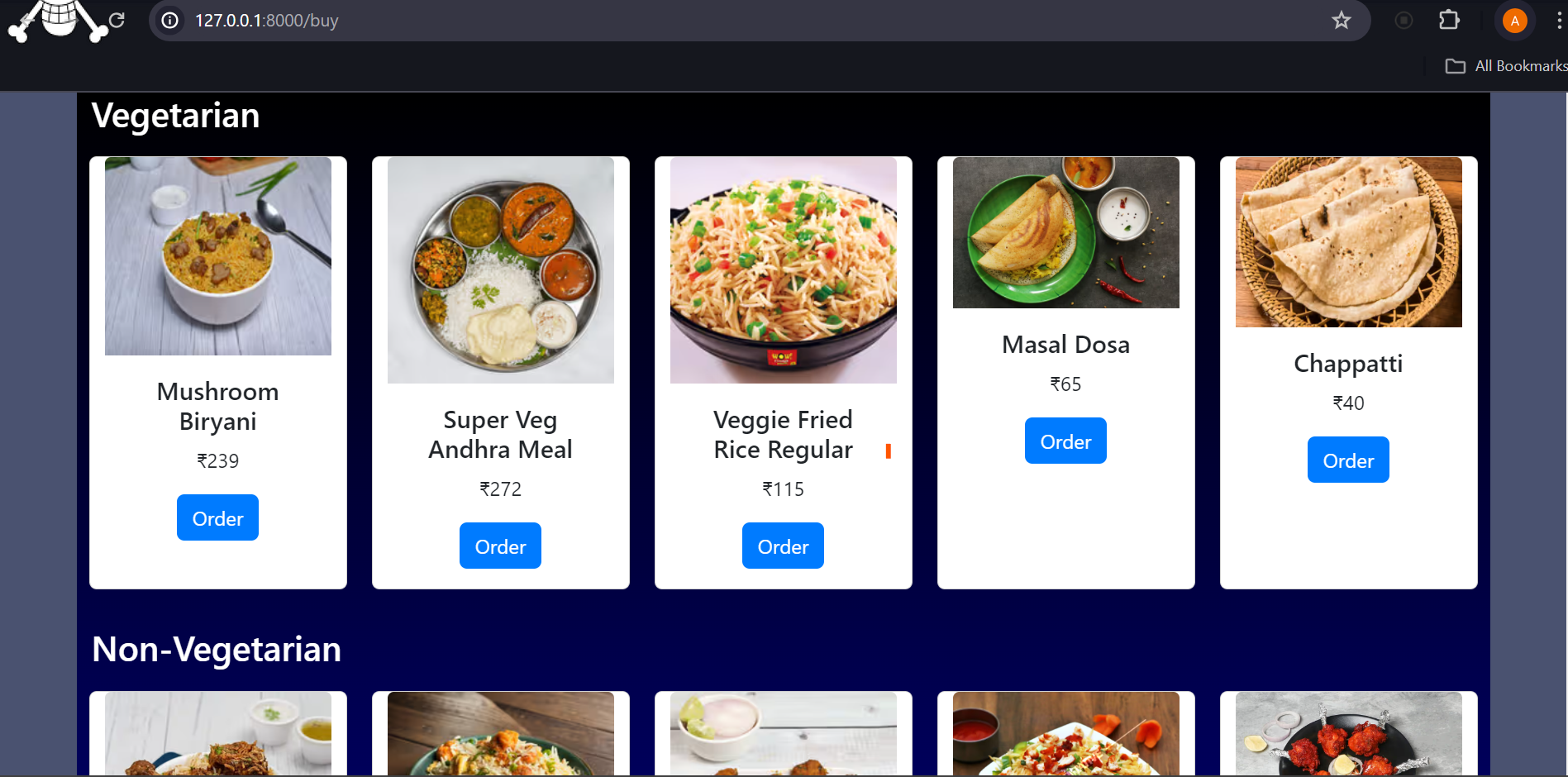
**Figure 4.1: Login page**

* **Signup page : The user should sign up to create a new account.**



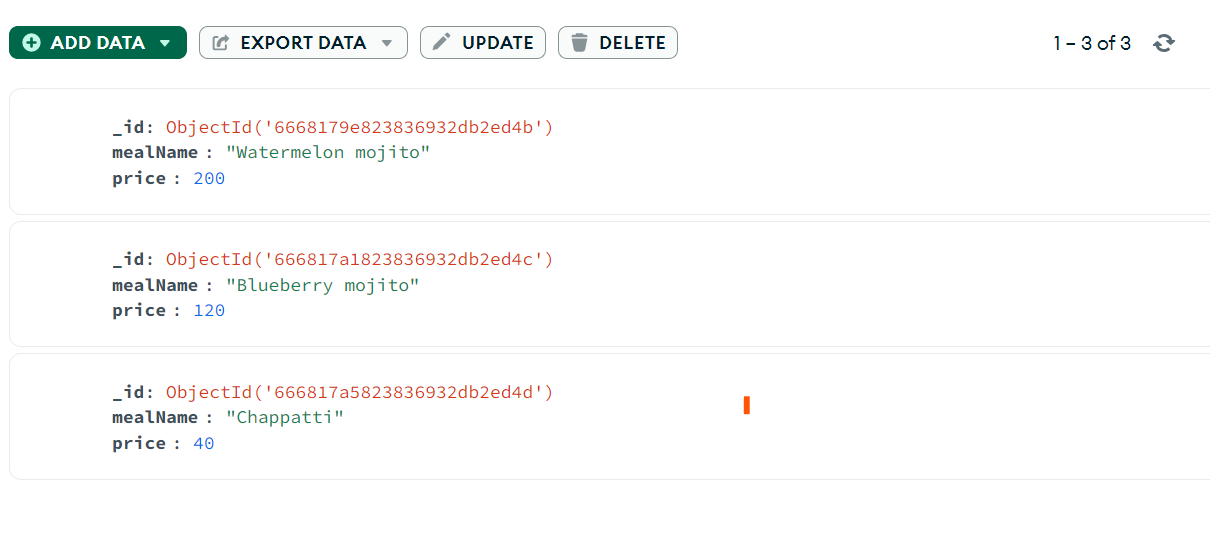
**Figure 4.2: Signup Page**

* Ordering page – The user can order the food according to their need.



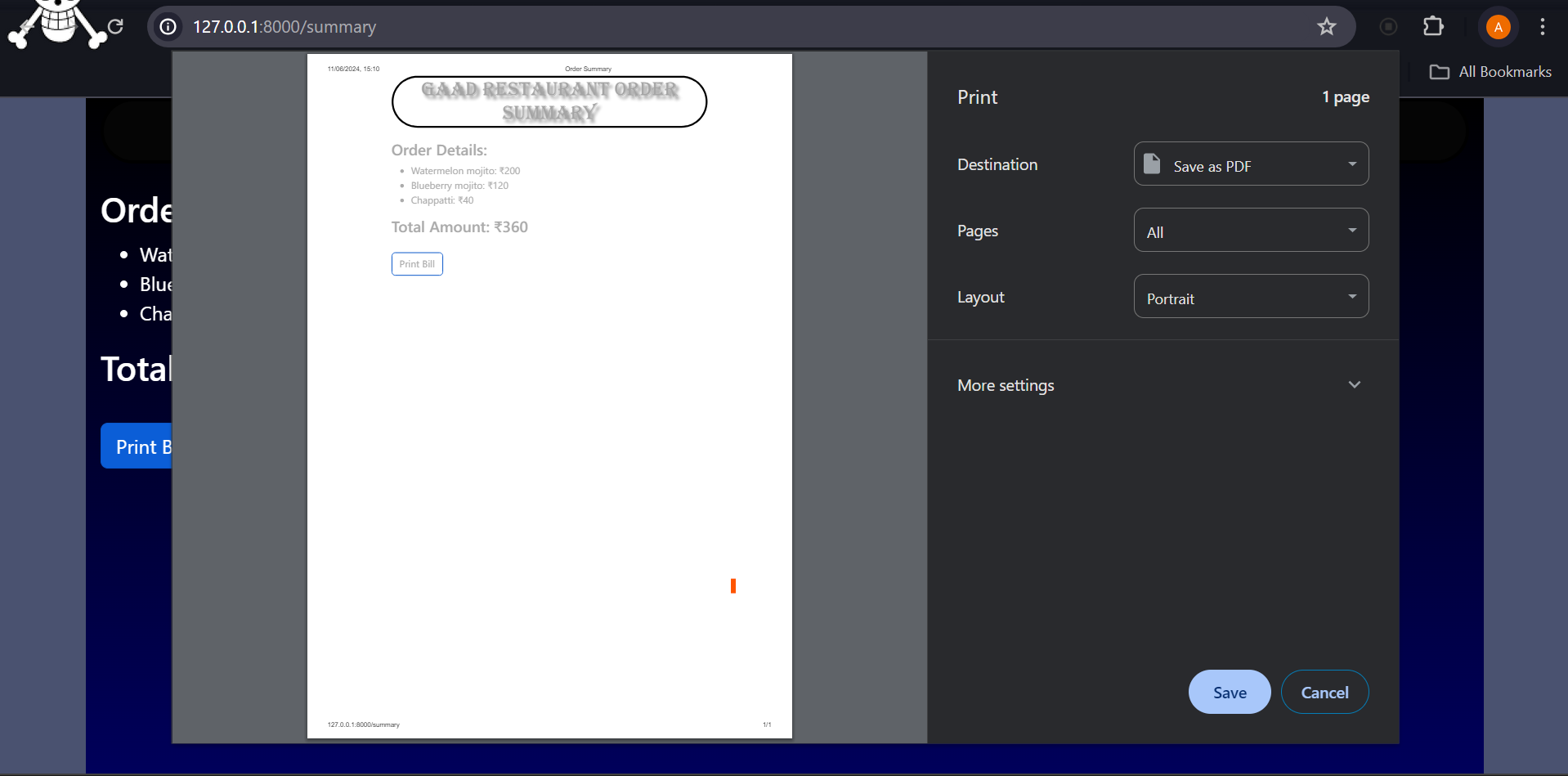
**Figure 4.3 : Food ordering page**

* **Database : The data is stored when the user clicks order button.**



**Figure 4.4:Food ordering database**

* **Bill Page: The data is stored when the user clicks order button.**



**Integration and Testing**

The system is integrated by connecting the user interface with the backend server through the data handling functions. Comprehensive testing is performed to ensure that all features work as expected and that the system can handle large volumes of data without performance issues.

**Testing Process:**

1. **Unit Testing:** Individual components and functions are tested for correctness.
2. **Integration Testing:** The interaction between different components is tested to ensure seamless data flow.
3. **System Testing:** The entire system is tested in a real-world environment to verify its performance and reliability.
4. **User Acceptance Testing:** Restaurant staff and customers use the system to perform typical tasks, and their feedback is used to make final adjustments.

**Results**

The implemented Food Ordering System demonstrates significant improvements in managing restaurant operations. It provides a seamless way to input, update, and retrieve menu and order information, reducing the time and effort required for these tasks. The system also minimizes errors associated with manual data handling and ensures data integrity through validation and secure access controls.

**Discussion**

The FOS shows a clear advantage over existing semi-automated systems. It offers better integration, comprehensive features, and higher reliability. The user-friendly interface allows restaurant staff and customers to quickly learn and use the system, enhancing productivity and efficiency. Additionally, the system's robust error-handling mechanisms and security measures ensure the accuracy and confidentiality of order and payment data.

**Future Enhancements**

Future enhancements could include adding more features such as table reservations, customer loyalty programs, and real-time data analytics to further improve restaurant management. Integrating these features would provide a more comprehensive solution, addressing all aspects of restaurant operations and further enhancing efficiency and customer satisfaction.

## **5. RESULTS AND DISCUSSION**

**System Performance**

The implemented Food Ordering System (FOS) has shown to significantly enhance the efficiency and accuracy of managing restaurant operations. Key performance metrics include:

* **Order Placement Time:** Reduced by approximately 50% compared to traditional manual ordering systems.
* **Error Rate:** Decreased to less than 1% due to automated validation and error handling.
* **Order Retrieval Time:** Reduced to a few seconds, enabling quick access to order details and transaction records.

**Usability**

The user-friendly interface, developed using modern web technologies, allows restaurant staff and customers to quickly learn and use the system. The intuitive design ensures that all necessary information is easily accessible, enhancing overall productivity and efficiency. User feedback during the testing phase indicated high satisfaction with the system's ease of use and functionality.

**Data Accuracy and Integrity**

The system ensures data accuracy through automated validation and error-checking mechanisms. All entered data is validated before being stored in the database, preventing errors and ensuring the accuracy of menu items and orders. Regular backups and secure access controls further ensure data integrity and prevent data loss.

**Security and Confidentiality**

The system incorporates several security measures to protect sensitive customer data. These measures include:

* **User Authentication:** Ensures that only authorized personnel can access the system.
* **Access Controls:** Restricts access to specific functionalities based on user roles.
* **Data Encryption:** Encrypts sensitive data to prevent unauthorized access.
* **Audit Logs:** Keeps track of all transactions and changes made to the database for auditing purposes.

**Comparison with Existing Systems**

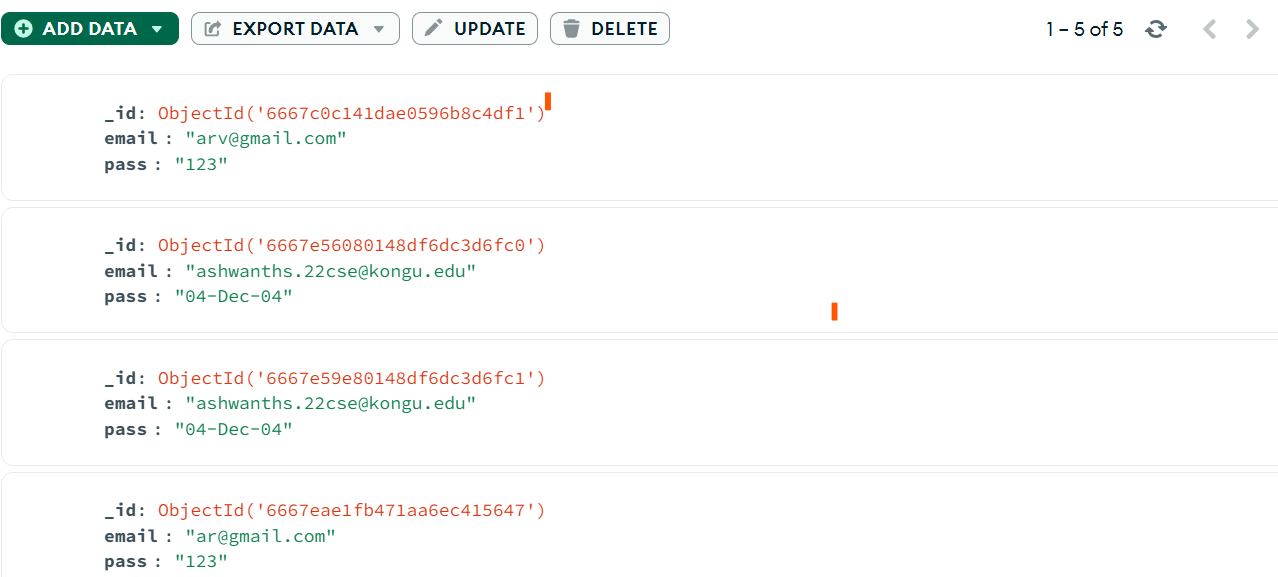
The proposed Food Ordering System offers several advantages over existing semi-automated systems:

* **Integration:** Provides a unified platform for managing all aspects of restaurant data, eliminating data silos and promoting seamless communication between departments.
* **Efficiency:** Reduces the time required for order placement, retrieval, and updates, allowing staff to focus more on customer service.
* **Accuracy:** Automated validation and error handling mechanisms ensure the accuracy of menu items and orders.
* **Security:** Robust security measures protect sensitive customer data, ensuring confidentiality and compliance with regulatory standards.

**Future Work**

Future enhancements to the system could include:

* **Table Reservations:** Adding functionality to schedule and manage table reservations.
* **Customer Loyalty Programs:** Implementing features to reward repeat customers and track loyalty points.
* **Real-Time Analytics:** Implementing real-time data analytics to provide insights into restaurant operations and customer preferences.
* **Mobile Compatibility:** Developing a mobile version of the system to provide access to order data on-the-go.



**Figure 5.1: Information In mongodb**

**6.CONCLUSION**

The Food Ordering System developed in this project addresses the critical needs of modern restaurants for efficient and reliable data management. By integrating menu management, order placement, and other restaurant operations into a single system, it significantly improves the accuracy and efficiency of restaurant workflows. The user-friendly interface and robust backend ensure that the system is both easy to use and reliable. Future enhancements could include adding more features like table reservations, customer loyalty programs, and real-time data analytics to further improve restaurant management.

**7.SAMPLE CODING**

**Landing.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>Landing</title>

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

    <link rel="icon" href="public/gaad.jpg" type="image/x-icon" />

<style>

@import url('https://fonts.googleapis.com/css2?family=Algerian&family=Roboto:wght@300;400;700&display=swap');

body::before {

    content: "";

    position: fixed;

    top: 0;

    left: 0;

    right: 0;

    bottom: 0;

    background-image: url("https://media.istockphoto.com/id/2149659228/photo/black-slate-serving-plate-decorated-with-ingredients-tomatoes-dry-pepper-seasoning-garlic-and.webp?b=1&s=170667a&w=0&k=20&c=vJo60SCqOiTnIXPPa38847fJs0p45W\_LuYBHbrqPVfo=");

    background-repeat: no-repeat;

    background-size: cover;

    background-attachment: fixed;

    opacity: 0.7;

    z-index: -1;

    animation: fadeIn 2s ease-in-out;

}

@keyframes fadeIn {

    from { opacity: 0; }

    to { opacity: 0.7; }

}

body {

    margin: 0;

    font-family: 'Roboto', Arial, Helvetica, sans-serif;

    width: 100%;

    height: 100%;

    color: #fff;

}

h1, legend {

  font-family: 'Algerian', serif;

  text-shadow: 5px 5px #000;

}

h1 {

  color: #e50914;

  font-family: 'Bebas Neue', sans-serif;

  font-size: 40px;

  margin: 2% auto 0 auto;

  text-align: center;

  animation: slideInFromLeft 1.5s ease-in-out;

  letter-spacing: 2px;

  text-transform: uppercase;

}

legend {

    font-size: 36px;

    text-align: center;

    animation: slideInFromRight 1.5s ease-in-out;

}

@keyframes slideInFromLeft {

    from { transform: translateX(-100%); opacity: 0; }

    to { transform: translateX(0); opacity: 1; }

}

@keyframes slideInFromRight {

    from { transform: translateX(100%); opacity: 0; }

    to { transform: translateX(0); opacity: 1; }

}

p {

    color: #fff;

    line-height: 1.6;

    max-width: 800px;

    margin: 20px auto;

    padding: 0 20px;

    text-align: justify;

    animation: fadeInText 3s ease-in-out;

}

@keyframes fadeInText {

    from { opacity: 0; }

    to { opacity: 1; }

}

.topnav {

    overflow: hidden;

    background: #000000;

    display: flex;

    justify-content: center;

    border-radius: 10px;

    margin: 0 auto 20px auto;

    width: 8.1cm;

    animation: fadeInNav 2s ease-in-out;

    box-shadow: 0 4px 8px rgba(0, 0, 0, 0.2);

    position: relative;

    z-index: 10;

}

@keyframes fadeInNav {

    from { opacity: 0; }

    to { opacity: 1; }

}

.topnav a {

    color: #f2f2f2;

    text-align: center;

    padding: 14px 20px;

    text-decoration: none;

    font-size: 17px;

    transition: color 0.3s, background 0.3s;

    position: relative;

    z-index: 10;

}

.topnav a::after {

    content: '';

    display: block;

    width: 0;

    height: 2px;

    background: #ca970a;

    transition: width 0.3s;

    position: absolute;

    bottom: 10px;

    left: 50%;

    transform: translateX(-50%);

}

.topnav a:hover::after {

    width: 80%;

}

.topnav a:hover {

    color: #ca970a;

}

.topnav a.active {

    background: linear-gradient(to right, #f70000, #fe7b7b);

    color: white;

    border-radius: 10px;

    padding: 14px 20px;

    list-style-type: none;

}

#gaad {

    width: 200px;

    border-radius: 50px;

    margin: 20px auto;

    display: block;

    animation: bounceIn 2s ease-in-out;

}

@keyframes bounceIn {

    0%, 20%, 40%, 60%, 80%, 100% {

        transform: translateY(0);

        opacity: 1;

    }

    50% {

        transform: translateY(-30px);

        opacity: 0.5;

    }

}

fieldset {

    background: rgba(0, 0, 0, 0.5);

    border: none;

    border-radius: 10px;

    padding: 20px;

    margin: 20px auto;

    max-width: 900px;

    position: relative;

}

span {

    font-size: 23px;

    color: #880c0c;

}

.center {

    text-align: center;

}

.legend-container {

    display: flex;

    justify-content: space-between;

    align-items: center;

}

.legend-title {

    margin-left: 20px;

}

</style>

</head>

<body>

  <form action="http://localhost:8000/signin" method="get">

    <fieldset>

      <div class="legend-container">

        <div class="topnav">

          <a class="active"  >ABOUT</a>

          <a href="/buy" >ORDER</a>

          <a href="/signin" >SIGN-IN</a>

        </div>

      </div>

      <div class="center">

        <img src="public/gaad.jpg" id="gaad"><h1>GAAD RESTAURANT</h1>

      </div>

      <p>

        <span>About Our Restaurant</span><br><br>

        Welcome to GAAD Restaurant!<br><br>

        At GAAD Restaurant, we're passionate about food. It's not just about the ingredients for us; it's about the experience.<br><br>

        From the moment you walk through our doors to the first bite of your meal, we strive to make every step of your dining journey exceptional.<br><br>

        Our story began [10 years ago/insert founding date], with a simple mission: to deliver the best dining experience, made with the finest ingredients, right to your table. What started as a small family-owned eatery has now grown into a beloved institution in the community, serving up smiles, satisfaction, and of course, delicious meals!<br><br>

        What sets us apart? It's our commitment to quality. We source only the freshest produce, finest meats, and premium ingredients for our dishes. Our chefs craft each recipe with care, using authentic techniques that have been passed down through generations. We believe that great food starts with great ingredients, and that's why we never compromise on quality.<br><br>

        But it's not just about what's on the plate; it's about the people behind it. Our team is made up of dedicated culinary artisans who are passionate about their craft. From our skilled chefs who prepare each dish to perfection, to our friendly waitstaff who ensure your dining experience is exceptional, every member of our team plays a vital role in bringing you the ultimate dining experience.<br><br>

        At GAAD Restaurant, we're not just in the business of making food; we're in the business of making memories. Whether it's a casual weeknight dinner with family, a fun-filled gathering with friends, or a special celebration, we're here to make every moment deliciously memorable.<br><br>

        <br>

        "Food is a universal language. Everyone loves it."<br>

        "Good food is the only thing that can cheer me up on a bad day."<br>

        "Food is not just sustenance, it's an emotion."<br>

        "Good food is proof that life is meant to be enjoyed."<br>

        "Food is like a blank canvas. You can create anything you want with it."<br>

        "Good food is the answer to all of life's problems."<br><br><br>

        Sincerely,<br>

        [ARVIND, ASHWANTH, GAURAV ADHITHYA and DARUN ADHITHYA]<br>

        Founder, [GAAD]

      </p>

    </fieldset>

  </form>

</body>

</html>

**buy.html**<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

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

    <title>Food Ordering</title>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65" crossorigin="anonymous">

    <style>

        body {

            background-color: rgb(74, 82, 112);

        }

        .container {

            background-image: linear-gradient(black, rgb(0, 0, 91));

            background-repeat: no-repeat;

            background-attachment: fixed;

            background-size: cover;

            padding-bottom: 20px;

            min-height: 100vh;

        }

        .headName {

            color: rgb(248, 248, 248);

            text-align: center;

            background-color: rgb(5, 5, 5);

            font-family: Algerian;

            background-size: cover;

            border-radius: 50px;

            border: 3px solid black;

            text-shadow: 5px 5px 5px rgb(128, 128, 128);

        }

        #items {

            display: flex;

            justify-content: center;

            flex-wrap: wrap;

        }

        .singleItem {

            cursor: pointer;

            margin: 10px;

        }

        #orderSummary {

            margin-top: 20px;

            color: white;

        }

        .card {

            width: 13rem;

        }

        .btn-order {

            background-color: #007bff;

            color: white;

        }

        .btn-order:hover{

              background-color: blue;

              color:white;

        }

        .category-title {

            color: white;

            margin-top: 20px;

        }

        .category {

            margin-bottom: 20px;

        }

        .card-img-top {

            padding: 0;

        }

    </style>

</head>

<body>

    <div class="container">

        <h1 class="headName">GAAD RESTAURANT MENU</h1>

        <div id="vegItems" class="category">

            <h3 class="category-title">Vegetarian</h3>

            <div class="row" id="vegItemsList"></div>

        </div>

        <div id="nonVegItems" class="category">

            <h3 class="category-title">Non-Vegetarian</h3>

            <div class="row" id="nonVegItemsList"></div>

        </div>

        <div id="mojitos" class="category">

            <h3 class="category-title">Mojitos</h3>

            <div class="row" id="mojitosList"></div>

        </div>

        <div id="orderSummary">

            <h3>Order Summary</h3>

            <div id="billDetails"></div>

            <button class="btn btn-primary" onclick="redirectToSummary()">View Full Bill</button>

        </div>

    </div>

    <script>

        const foodItems = [

        {

            src: 'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_300,h\_300,c\_fit/d6c7910482661bd8a5940c950dbe69c0',

            name: 'Hyderabadi Chicken Biryani',

            price: 299,

            category: 'non-veg'

        },

        {

            src: 'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_208,h\_208,c\_fit/FOOD\_CATALOG/IMAGES/CMS/2024/5/31/d8c16ba6-bcae-420a-a41b-e2144a802431\_977153a2-4bff-4672-a9de-58188081e416.jpg',

            name: 'Chicken Fried Rice',

            price: 169,

            category: 'non-veg'

        },

        {

            src: 'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_208,h\_208,c\_fit/e75939761dbeb881f3bc8ecb9927acd4',

            name: 'Fish Fry',

            price: 270,

            category: 'non-veg'

        },

        {

            src: 'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,h\_600/20dae94e754e4354e64485dc4e323744',

            name: 'Chicken Fried Noodles',

            price: 170,

            category: 'non-veg'

        },

        {

            src: 'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,h\_600/4e166426cb5c5c61bed49f149ef7c73c',

            name: 'Chicken Lollipop',

            price: 225,

            category: 'non-veg'

        },

        {

            src: 'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_208,h\_208,c\_fit/7e1e93343c130f56cb4211de810bb634',

            name: 'Mushroom Biryani',

            price: 239,

            category: 'veg'

        },

        {

            src: 'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_208,h\_208,c\_fit/8d7fcc91b82a06d8c0ee6548280a7aac',

            name: 'Super Veg Andhra Meal',

            price: 272,

            category: 'veg'

        },

        {

            src: 'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_208,h\_208,c\_fit/caoew9vk7kn7ve1othac',

            name: 'Veggie Fried Rice Regular',

            price: 115,

            category: 'veg'

        },

        {

            src:'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_660/yj6g7wugbi5qbvjtoqmr',

            name:'Masal Dosa',

            price:65,

            category:'veg'

        },

        {

            src:'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_300,h\_300,c\_fit/jua2ddojx0q4aibynmka',

            name:'Chappatti',

            price:40,

            category:'veg'

        },

        {

            src: 'https://images.unsplash.com/photo-1551782450-3939704166fc?q=80&w=1000&auto=format&fit=crop&ixlib=rb-4.0.3&ixid=M3wxMjA3fDB8MHxzZWFyY2h8N3x8bW9qaXRvfGVufDB8fDB8fHww',

            name:'blue curacao',

            price:120,

            category:'Mojitos'

        },

        {

            src: 'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,h\_600/FOOD\_CATALOG/IMAGES/CMS/2024/3/13/88a85cc2-a86b-4112-b8b5-c903b08e785e\_82d19ad2-828b-4f78-9423-0127006f3f3c.jpg',

            name:'Lime mint',

            price:100,

            category:'Mojitos'

        },

        {

            src:'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_208,h\_208,c\_fit/d0o4gx55yveblxhfwkk5',

            name:'Watermelon mojito',

            price:200,

            category:'Mojitos'

        },

        {

            src:'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_208,h\_208,c\_fit/4c68f7509dff9ca3f7c5bacdf1cd90dd',

            name:'Blueberry mojito',

            price:120,

            category:'Mojito'

        },

        {

            src:'https://media-assets.swiggy.com/swiggy/image/upload/fl\_lossy,f\_auto,q\_auto,w\_208,h\_208,c\_fit/ffaa5abc589cb6abc68c50fed5d834f6',

            name:'Kiwi Thunder Mojito',

            price:100,

            category:'Mojito'

        },

        ];

        let totalAmount = 0;

        let orderedItems = [];

        function renderItems() {

            const vegItemsDiv = document.getElementById('vegItemsList');

            const nonVegItemsDiv = document.getElementById('nonVegItemsList');

            const mojitosItemsDiv = document.getElementById('mojitosList');

            foodItems.forEach(item => {

                const itemDiv = document.createElement('div');

                itemDiv.className = 'singleItem card text-center col-md-4 col-lg-3';

                itemDiv.innerHTML = `

                    <img src="${item.src}" class="card-img-top" alt="${item.name}">

                    <div class="card-body">

                        <h5 class="card-title">${item.name}</h5>

                        <p class="card-text">₹${item.price}</p>

                        <button class="btn btn-order" onclick="orderItem('${item.name}', ${item.price})">Order</button>

                    </div>`;

                if (item.category === 'veg') {

                    vegItemsDiv.appendChild(itemDiv);

                } else if (item.category === 'non-veg') {

                    nonVegItemsDiv.appendChild(itemDiv);

                } else {

                    mojitosItemsDiv.appendChild(itemDiv);

                }

            });

        }

        function orderItem(name, price) {

            fetch('/order', {

                method: 'POST',

                headers: {

                    'Content-Type': 'application/json',

                },

                body: JSON.stringify({ mealName: name, price: price }),

            })

            .then(response => response.json())

            .then(data => {

                if (data.status === 'success') {

                    totalAmount += price;

                    orderedItems.push(name);

                    displayBill();

                } else {

                    alert("Failed to place order.");

                }

            })

            .catch(error => {

                console.error('Error:', error);

            });

        }

        function displayBill() {

            const billDetails = document.getElementById('billDetails');

            billDetails.innerHTML = `

                <p><strong>Items Ordered:</strong> ${orderedItems.join(', ')}</p>

                <p><strong>Total Amount:</strong> ₹${totalAmount}</p>

            `;

        }

        function redirectToSummary() {

            window.location.href = '/summary';

        }

        document.addEventListener('DOMContentLoaded', renderItems);

    </script>

</body>

</html>

**sigin.html**<!DOCTYPE html>

<html>

<head>

<meta name="viewport" content="width=device-width, initial-scale=1">

<style>

/\* Full-width input fields \*/

input[type=text], input[type=password] {

  width: 100%;

  padding: 12px 20px;

  margin: 8px 0;

  display: inline-block;

  border: 1px solid #ccc;

  box-sizing: border-box;

}

/\* Set a style for all buttons \*/

button {

  background-color: #04AA6D;

  color: white;

  padding: 14px 20px;

  margin: 8px 0;

  border: none;

  cursor: pointer;

  width: 100%;

}

button:hover {

  opacity: 0.8;

}

/\* Extra styles for the cancel button \*/

.cancelbtn {

  width: auto;

  padding: 10px 18px;

  background-color: #f44336;

}

/\* Center the image and position the close button \*/

.imgcontainer {

  text-align: center;

  margin: 24px 0 12px 0;

  position: relative;

}

img.avatar {

  width: 40%;

  border-radius: 50%;

}

.container {

  padding: 16px;

}

span.psw {

  float: right;

  padding-top: 16px;

}

/\* The Modal (background) \*/

.modal {

  display: none; /\* Hidden by default \*/

  position: fixed; /\* Stay in place \*/

  z-index: 1; /\* Sit on top \*/

  left: 0;

  top: 0;

  width: 100%; /\* Full width \*/

  height: 100%; /\* Full height \*/

  overflow: auto; /\* Enable scroll if needed \*/

  background-color: rgb(0,0,0); /\* Fallback color \*/

  background-color: rgba(0,0,0,0.4); /\* Black w/ opacity \*/

  padding-top: 60px;

}

/\* Modal Content/Box \*/

.modal-content {

  background-color: #fefefe;

  margin: 5% auto 15% auto; /\* 5% from the top, 15% from the bottom and centered \*/

  border: 1px solid #888;

  width: 80%; /\* Could be more or less, depending on screen size \*/

}

/\* The Close Button (x) \*/

.close {

  position: absolute;

  right: 25px;

  top: 0;

  color: #000;

  font-size: 35px;

  font-weight: bold;

}

.close:hover,

.close:focus {

  color: red;

  cursor: pointer;

}

/\* Add Zoom Animation \*/

.animate {

  -webkit-animation: animatezoom 0.6s;

  animation: animatezoom 0.6s

}

@-webkit-keyframes animatezoom {

  from {-webkit-transform: scale(0)}

  to {-webkit-transform: scale(1)}

}

@keyframes animatezoom {

  from {transform: scale(0)}

  to {transform: scale(1)}

}

/\* Change styles for span and cancel button on extra small screens \*/

@media screen and (max-width: 300px) {

  span.psw {

     display: block;

     float: none;

  }

  .cancelbtn {

     width: 100%;

  }

}

body {

 background-image: url("paper.gif");

 background-color: #000000;

}

#h2{

    text-align: center;

    color: white;

    margin-top:17%;

}

#butt{

     justify-content: center;

     margin-top:0%;

}

</style>

<link rel="icon" href="public\gaad.jpg" type="image/x-icon" />

</head>

<body>

<h2 id="h2">Login Page</h2>

<center>

<button id="butt" onclick="document.getElementById('id01').style.display='block'" style="width:auto;">Login</button>

</center>

<div id="id01" class="modal">

  <form class="modal-content animate" action="/login" method="post">

    <div class="imgcontainer">

      <span onclick="document.getElementById('id01').style.display='none'" class="close" title="Close Modal">&times;</span>

      <img src="https://encrypted-tbn0.gstatic.com/images?q=tbn:ANd9GcRGma1\_B6o5S4nW0Ht5\_ZN0Z\_niPkrN3zWeRg&s" alt="Login" class="login">

    </div>

    <div class="container">

  <div class="container">

      <h1>Login Page</h1>

      <p>Please fill in this form to login.</p>

      <hr>

      <label for="uname"><b>Username</b></label>

      <input type="text" placeholder="Enter Username" name="email" required>

      <label for="psw"><b>Password</b></label>

      <input type="password" placeholder="Enter Password" name="pass" required>

      <button type="submit">Login</button>

      <label>

        <input type="checkbox" checked="checked" name="remember"> Remember me

      </label>

    </div>

    <div class="container" style="background-color:#f1f1f1">

      <button type="button" onclick="document.getElementById('id01').style.display='none'" class="cancelbtn">Cancel</button>

      <span class="psw">Not have an account <a href="public\signup.html">Sign-up</a></span>

    </div>

  </div>

  </form>

</div>

<script>

// Get the modal

var modal = document.getElementById('id01');

// When the user clicks anywhere outside of the modal, close it

window.onclick = function(event) {

    if (event.target == modal) {

        modal.style.display = "none";

    }

}

</script>

</body>

</html>

**signup.html**<!DOCTYPE html>

<html>

<style>

body {font-family: Arial, Helvetica, sans-serif;}

\* {box-sizing: border-box;}

/\* Full-width input fields \*/

input[type=text], input[type=password] {

  width: 100%;

  padding: 15px;

  margin: 5px 0 22px 0;

  display: inline-block;

  border: none;

  background: #f1f1f1;

}

/\* Add a background color when the inputs get focus \*/

input[type=text]:focus, input[type=password]:focus {

  background-color: #ddd;

  outline: none;

}

/\* Set a style for all buttons \*/

button {

  background-color: #04AA6D;

  color: white;

  padding: 14px 20px;

  margin: 8px 0;

  border: none;

  cursor: pointer;

  width: 100%;

  opacity: 0.9;

}

button:hover {

  opacity:1;

}

/\* Extra styles for the cancel button \*/

.cancelbtn {

  padding: 14px 20px;

  background-color: #f44336;

}

/\* Float cancel and signup buttons and add an equal width \*/

.cancelbtn, .signupbtn {

  float: left;

  width: 50%;

}

/\* Add padding to container elements \*/

.container {

  padding: 16px;

}

/\* The Modal (background) \*/

.modal {

  display: none; /\* Hidden by default \*/

  position: fixed; /\* Stay in place \*/

  z-index: 1; /\* Sit on top \*/

  left: 0;

  top: 0;

  width: 100%; /\* Full width \*/

  height: 100%; /\* Full height \*/

  overflow: auto; /\* Enable scroll if needed \*/

  background-color: #474e5d;

  padding-top: 50px;

}

/\* Modal Content/Box \*/

.modal-content {

  background-color: #fefefe;

  margin: 5% auto 15% auto; /\* 5% from the top, 15% from the bottom and centered \*/

  border: 1px solid #888;

  width: 80%; /\* Could be more or less, depending on screen size \*/

}

/\* Style the horizontal ruler \*/

hr {

  border: 1px solid #f1f1f1;

  margin-bottom: 25px;

}

/\* The Close Button (x) \*/

.close {

  position: absolute;

  right: 35px;

  top: 15px;

  font-size: 40px;

  font-weight: bold;

  color: #f1f1f1;

}

.close:hover,

.close:focus {

  color: #f44336;

  cursor: pointer;

}

/\* Clear floats \*/

.clearfix::after {

  content: "";

  clear: both;

  display: table;

}

/\* Change styles for cancel button and signup button on extra small screens \*/

@media screen and (max-width: 300px) {

  .cancelbtn, .signupbtn {

     width: 100%;

  }

}

body {

 background-image: url("paper.gif");

 background-color: #000000;

}

#p{

    text-align: center;

    color: white;

    margin-top:17% ;

}

#butt{

    justify-content: center;

    margin-top:0%;

}

.button5 {border-radius: 50%;}

</style>

<body>

<p id="p" style="font-size:30px;">SIGN-UP</p>

<center>

<button id="butt" onclick="document.getElementById('id01').style.display='block'" style="width:auto;">Sign Up</button>

</center>

<div id="id01" class="modal">

  <span onclick="document.getElementById('id01').style.display='none'" class="close" title="Close Modal">&times;</span>

  <form action="/signup" method="post" class="modal-content" >

    <div class="container">

      <h1>Sign Up</h1>

      <p>Please fill in this form to create an account.</p>

      <hr>

      <label for="email"><b>Email</b></label>

      <input type="text" placeholder="Enter Email" name="email" required>

      <label for="psw"><b>Password</b></label>

      <input type="password" placeholder="Enter Password" name="pass" id="myInput" required>

      <label for="psw-repeat"><b>Repeat Password</b></label>

      <input type="password" placeholder="Repeat Password" name="psw-repeat" id="myInput2" required>

      <input type="checkbox" onclick="myFunction()">

<label for="pass">Show Password</label>

<script>

function myFunction() {

  var x = document.getElementById("myInput");

  var y= document.getElementById("myInput2");

  if (x.type && y.type === "password") {

    y.type = "text";

    x.type = "text";

  } else {

    x.type = "password";

    y.type = "password";

  }

}

</script>

<br><br>

      <p>By creating an account you agree to our <a href="public\terms.html" style="color:dodgerblue">Terms & Privacy</a>.</p>

      <label>

        <input type="checkbox" checked="checked" name="remember" style="margin-bottom:15px"> I Agree

      </label>

      <div class="clearfix">

        <button type="button" onclick="document.getElementById('id01').style.display='none'" class="cancelbtn">Cancel</button>

        <button type="submit" class="signupbtn">Sign Up</button>

      </div>

    </div>

  </form>

</div>

<script>

// Get the modal

var modal = document.getElementById('id01');

// When the user clicks anywhere outside of the modal, close it

window.onclick = function(event) {

  if (event.target == modal) {

    modal.style.display = "none";

  }

}

</script>

<link rel="icon" href="public\gaad.jpg" type="image/x-icon" />

</body>

</html>

**summary.html**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

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

    <title>Order Summary</title>

    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.2.3/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-rbsA2VBKQhggwzxH7pPCaAqO46MgnOM80zW1RWuH61DGLwZJEdK2Kadq2F9CUG65" crossorigin="anonymous">

    <style>

        body {

            background-color: rgb(74, 82, 112);

        }

        .container {

            background-image: linear-gradient(black,rgb(0, 0, 91));

            background-repeat: no-repeat;

            background-attachment: fixed;

            background-size: cover;

            padding-bottom: 20px;

            min-height: 100vh;

        }

        .headName {

            color: rgb(248, 248, 248);

            text-align: center;

            background-color: rgb(5, 5, 5);

            font-family: Algerian;

            background-size: cover;

            border-radius: 50px;

            border: 3px solid black;

            text-shadow: 5px 5px 5px rgb(128, 128, 128);

        }

        .orderSummary {

            color: white;

            margin-top: 20px;

        }

        .btn-print {

            margin-top: 20px;

        }

    </style>

</head>

<body>

    <div class="container">

        <h1 class="headName">GAAD RESTAURANT ORDER SUMMARY</h1>

        <div id="orderSummary" class="orderSummary"></div>

        <button class="btn btn-primary btn-print" onclick="printBill()">Print Bill</button>

    </div>

    <script>

        function fetchOrders() {

            fetch('/orders')

                .then(response => response.json())

                .then(data => {

                    if (data.status === 'success') {

                        displayOrders(data.orders);

                    } else {

                        alert('Failed to fetch orders.');

                    }

                })

                .catch(error => {

                    console.error('Error:', error);

                });

        }

        function displayOrders(orders) {

            const orderSummaryDiv = document.getElementById('orderSummary');

            if (orders.length === 0) {

                orderSummaryDiv.innerHTML = '<p>No orders placed yet.</p>';

                return;

            }

            let totalAmount = 0;

            let orderDetails = '<h3>Order Details:</h3><ul>';

            orders.forEach(order => {

                if(order.price>0){

                    totalAmount += order.price;

                    orderDetails += `<li>${order.mealName}: ₹${order.price}</li>`;

                }

            });

            orderDetails += '</ul>';

            orderSummaryDiv.innerHTML = `

                ${orderDetails}

                <h3>Total Amount: ₹${totalAmount}</h3>

            `;

        }

        function printBill() {

            window.print();

        }

        document.addEventListener('DOMContentLoaded', fetchOrders);

    </script>

</body>

</html>

**Error.html**

<form action="/error">Please enter the username and password correctly</form>

**python.py**

from flask import Flask, request, redirect, jsonify, send\_from\_directory

from pymongo import MongoClient

from bson import ObjectId

import os

app = Flask(\_\_name\_\_, static\_folder='public')

port = 8000

mongo\_url = "mongodb://localhost:27017/"

db\_name = "mydatabase"

client = MongoClient(mongo\_url)

db = client[db\_name]

print(f"Connected to MongoDB: {db\_name}")

@app.route('/')

def landing():

    return send\_from\_directory(app.static\_folder, 'landing.html')

@app.route('/buy')

def buy():

    return send\_from\_directory(app.static\_folder, 'buy.html')

@app.route('/signin')

def signin():

    return send\_from\_directory(app.static\_folder, 'signin.html')

@app.route('/signup')

def signup():

    return send\_from\_directory(app.static\_folder, 'signup.html')

@app.route('/error')

def error():

    return send\_from\_directory(app.static\_folder, 'error.html')

@app.route('/signup', methods=['POST'])

def signup\_post():

    email = request.form['email']

    password = request.form['pass']

    try:

        db.items.insert\_one({'email': email, 'pass': password})

        print("User inserted successfully")

        return redirect('/signin')

    except Exception as e:

        print(f"Error inserting user data: {e}")

        return "Failed to sign up", 500

@app.route('/login', methods=['POST'])

def login\_post():

    email = request.form['email']

    password = request.form['pass']

    try:

        user = db.items.find\_one({'email': email, 'pass': password})

        if user:

            print("User authenticated successfully")

            return redirect('/buy')

        else:

            print("Authentication failed")

            return redirect('/error')

    except Exception as e:

        print(f"Error during authentication: {e}")

        return "Failed to login", 500

@app.route('/order', methods=['POST'])

def order\_post():

    data = request.get\_json()

    meal\_name = data['mealName']

    price = data['price']

    print(f"Received order: {meal\_name} with price: {price}")

    try:

        db.orders.insert\_one({'mealName': meal\_name, 'price': price})

        print("Order placed successfully")

        return jsonify({'status': 'success'}), 200

    except Exception as e:

        print(f"Error placing order: {e}")

        return jsonify({'status': 'failure'}), 500

@app.route('/orders', methods=['GET'])

def get\_orders():

    try:

        orders = list(db.orders.find())

        for order in orders:

            order['\_id'] = str(order['\_id'])

        return jsonify({'status': 'success', 'orders': orders}), 200

    except Exception as e:

        print(f"Error fetching orders: {e}")

        return jsonify({'status': 'failure', 'reason': str(e)}), 500

@app.route('/summary')

def summary():

    return send\_from\_directory(app.static\_folder, 'summary.html')

if \_\_name\_\_ == "\_\_main\_\_":

    app.run(port=port)