ABSTRACT:

The The Online Food Ordering System project is an innovative and user-friendly web-based food ordering and recipe management system developed using HTML, CSS, JS as the frontend , PHP as the backend and MySQL as the database. This project aims to simplify the process of browsing, selecting, and ordering food items online while also allowing users to explore a wide range of regional recipes. The system is divided into two primary modules: User Module and Admin Module. The User Module allows customers to view available dishes with detailed descriptions and images, add selected items to the cart, and proceed to billing by providing delivery and payment details. On the other hand, the Admin Module enables administrators to update and delete recipes, monitor customer orders, and analyze overall system performance through an attractive and functional dashboard. The website features a responsive design, ensuring smooth performance on desktop , and includes session management for secure user interactions. By integrating PHP and MySQL, the system ensures efficient data storage, retrieval, and dynamic content handling. Overall, The Online Food Ordering system project serves as a comprehensive solution for digital food services, combining the concepts of online ordering, recipe sharing, and user management into a single unified platform. It highlights the effective use of web technologies to enhance user convenience, promote culinary exploration, and modernize the traditional food ordering experience.

LIST OF TABLES

TABLE NO.	TABLE NAMAE	PAGE NO.
1.	ADMIN TABLE	8
2.	ORDERS TABLE	8
3.	RECIPES TABLE	8

LIST OF FIGURES

INTRODUCTION:

The Online Food Ordering System project is a web-based food ordering and recipe management application developed using HTML, CSS, JS, PHP and MySQL. The main objective of this system is to provide users with a convenient and efficient way to explore a wide range of recipes and place online food orders from the comfort of their homes. In today's fast-paced lifestyle, people prefer digital platforms that save time and offer variety, and Food Zone serves exactly that purpose. The system is designed with two modules: one for the user and another for the administrator. The user module enables customers to browse recipes, add dishes to the cart, and complete the ordering process with billing and delivery details. The admin module, on the other hand, allows administrators to manage recipes, monitor user activities, view orders, and maintain the database efficiently. The project ensures a responsive design, and dynamic data handling, making it both reliable and easy to use. With an attractive interface and smooth navigation, Food Zone enhances the digital dining experience by merging technology with the love for food. Overall, the project demonstrates the effective use of web technologies in creating a modern, interactive, and user-centric food management system.

SYSTEM SPECIFICATION

2.1 HARDWARE SPECIFICATION

✔ Processor – Intel® Core™ Quad-Core CPU or higher

✔ RAM – 4.00 GB or higher

✔ System type – 64-bit Operating System

2.2 SOFTWARE SPECIFICATION

✔ Operating System – Windows 10 compatible with PHP environment

✔ Web Server Environment – XAMPP Server (Apache, MySQL, PHP)

✔ Front End – HTML, CSS, JavaScript

✔ Back End – PHP 7.x

✔ Database – MySQL

2.2.1 ABOUT PHP

PHP (Hypertext Preprocessor) is a widely-used, open-source server-side scripting language suited for web development. It is embedded within HTML and facilitates dynamic, interactive web pages and applications. PHP plays a crucial role in processing user requests, interacting with databases, and generating content in real-time for web applications like the Online Food Ordering system.

2.2.2 ABOUT MYSQL

MySQL is an open-source relational database management system that ensures efficient storage, retrieval, and management of application data. It supports SQL queries and transactions critical for managing recipes, orders, and other functionalities essential for any e-commerce system. MySQL's reliability and widespread support make it a preferred choice for web-based applications.

2.2.3 ABOUT XAMPP SERVER

XAMPP is integrated software packages providing Apache web server, MySQL database, and PHP interpreter in a single installer. These server environments facilitate easy setup, development, and testing of PHP-MySQL applications on local machines before deployment on a live server. They provide essential features for handling web requests, database connectivity, and server-side scripting.
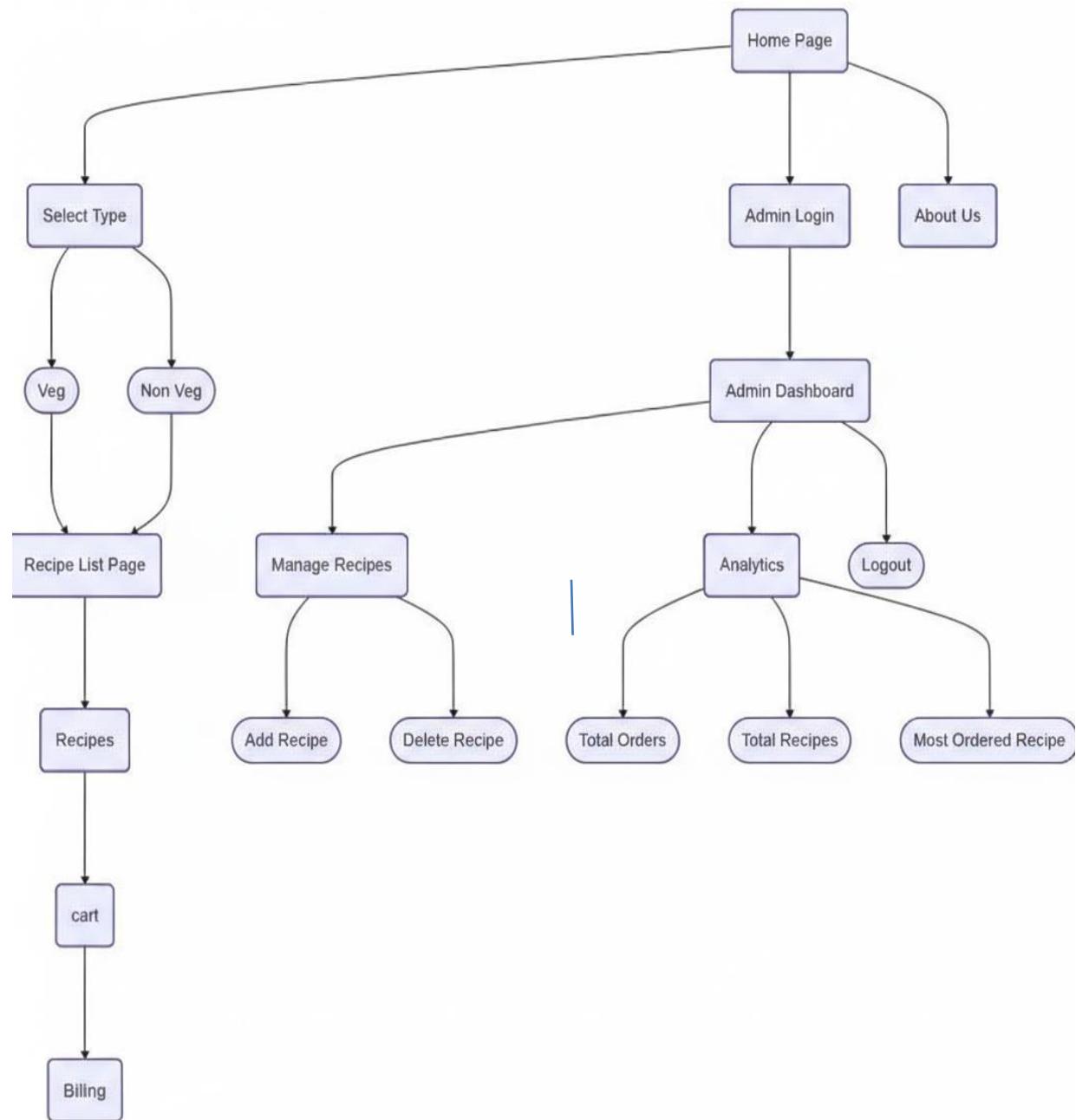
2.2.4 PROJECT ENVIRONMENT

The Online Food Ordering System operates in a local server environment using XAMPP, which supports PHP and MySQL to provide complete e-commerce functionalities. Users interact

through HTML, CSS, and JavaScript-based web pages, while PHP manages backend operations and database interactions, ensuring a seamless ordering experience, and secure data handling.

3. SYSTEM DESIGN

3.1 DATAFLOW DIAGRAM

3.2 DATABASE DESIGN

Table description

The system consists of the following tables:

- ➤ Admin Table
- ➤ Orders Table
- ➤ Recipes table

1. TABLE NAME: ADMIN TABLE

S.NO	FieldName	Data Type	Size
1.	Username	VARCHAR	100
2.	Password	VARCHAR	100

2. TABLE NAME: ORDERS TABLE

S.NO	Field Name	Data Type	Size
1.	Id	INT	11
2.	cutomer_name	VARCHAR	255
3.	Address	TEXT	200
4.	Phone	VARCHAR	20
5.	orders items	TEXT	100
6.	total amount	DECIMAL	10,2
7.	payment method	VARCHAR	50
8.	order date	DATETIME	

3. TABLE NAME: RECIPES TABLE

S.NO	Field Name	Data Type	Size
1.	Id	INT	11
2.	Title	VARCHAR	255
3.	price	INT	11
4.	Type	VARCHAR	50
5.	state	VARCHAR	50
6.	ingredients	TEXT	1000
7.	instructions	TEXT	1000
8.	Image	VARCHAR	255

3.3 FORM DESIGN

The Project entitled as "Online Food Ordering System" contains the following modules:

This module contains the following master entries

- ➢Recipe Table
- ➢order Table
- ➢admin Table

FOOD RECIPE TABLE DETAILS

Item forms in the Online Food Ordering System are designed to collect product-related information, including food recipe name, description, price, category, and image. This ensures that each food recipe is properly listed on the menu.

ORDER TABLE DETAILS

Order forms in the Online Food Ordering System are designed to capture complete customer order information. The form collects details such as user name, contact number, delivery address, product name, quantity,total amount, price, and order status. This enables the administrator to track orders efficiently, update their status in real-time, manage deliveries, and generate order reports for better business management.

ADMIN TABLE DETAILS

The Admin table in the online Food Ordering system project stores the login details of the administrator. It has two fields — Username and Password. The Username identifies the admin, while the Password ensures secure access to the admin panel. This table helps protect the website by allowing only authorized admin to log in. Though simple, it plays an important role in managing and securing the Food Zone system effectively. It allows the admin to add or delete recipes, view analytics, and monitor user activity. Overall, the Admin table is the key to maintaining control and security within the system.

VALIDATION PROVIDED IN THE PROJECT

In the Online Food ordering , data validation ensures accurate and consistent entries across all forms:

- Required Field Validation: Ensures that no mandatory field is left blank before submission.
- Contact Number: Numeric only
- Quantity: Must be numeric and cannot exceed available stock
- Cost / Price: Must be numeric and greater than zero
- Recipe Image: Only JPEG or PNG, within size limits

SPECIAL FEATURES ADDED IN THE PROJECT

DataGridView: Allows the admin to view and manage recipes, total recipes, and orders efficiently.

File Uploads: Enables uploading images for food items, with checks for allowed file types (jpg, png, gif).

RichTextBox / Printable Invoice: Automatically formats order details for printing or saving as a bill.

Dynamic Admin Panel: Provides real-time add/delete functionality with minimal page reloads, enhancing user experience.

3.4 REPORT DESIGN

The reports are printed or viewable outputs generated by the system. The Online Food Ordering System provides the following reports:

- Food Menu(Recipes) Report
- Cart Report
- Billing Report

FOOD MENU(RECIPE) REPORT

This report provides details of Item ID, Title , recipe image, ingredients, instruction and Beautiful quote. It enables administrators to monitor recipe items, and manage food product details effectively.

CART REPORT

The Cart table in the Onli Food Ordering system project stores details of the recipes selected by users before placing an order. It helps track items added to the cart, including recipe names, quantities, and prices. This table allows users to review their selections before billing. It plays a key role in managing the order process efficiently. Overall, the Cart table ensures smooth and organized food ordering for users.

BILLING REPORT

The Billing table in the Onli Food Ordering system project stores the details of user payments and delivery information. It includes fields like user name, address, mobile number, and payment method. This table helps confirm orders and generate bills for each purchase. It ensures accurate record-keeping of all transactions. Overall, the Billing table plays an important role in completing the food ordering process smoothly and securely.

Figure 1. HOME PAGE FORM
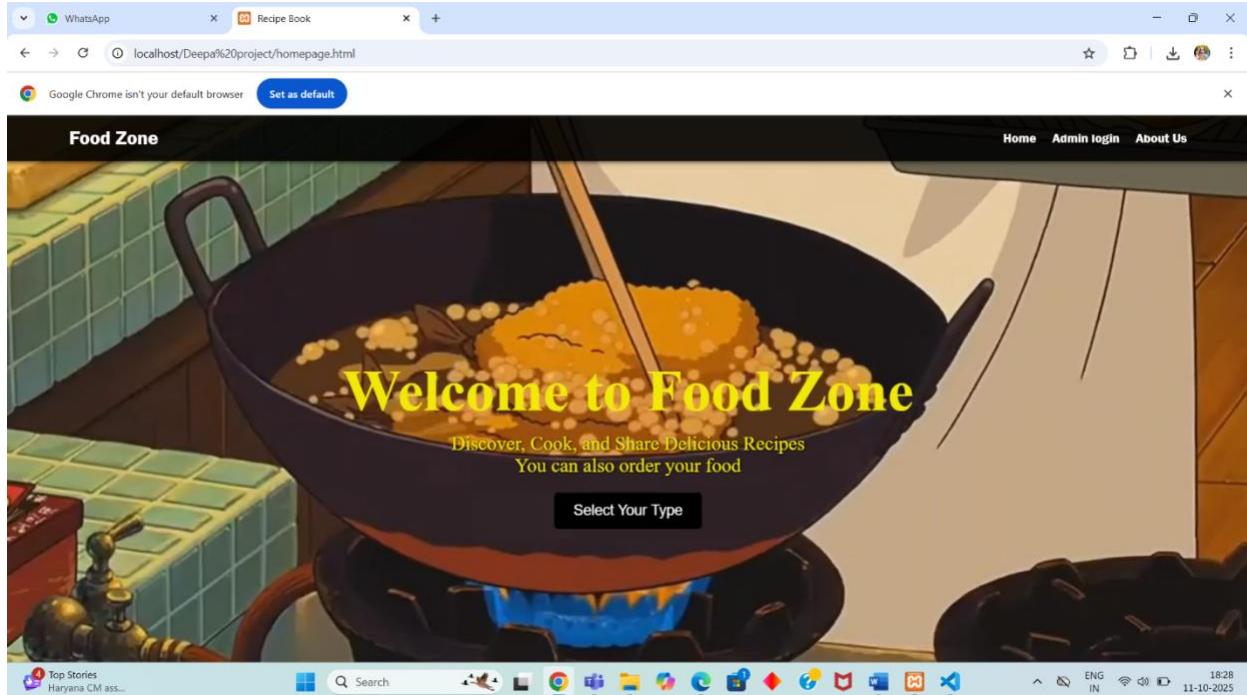
Figure 2.ABOUT US PAGE
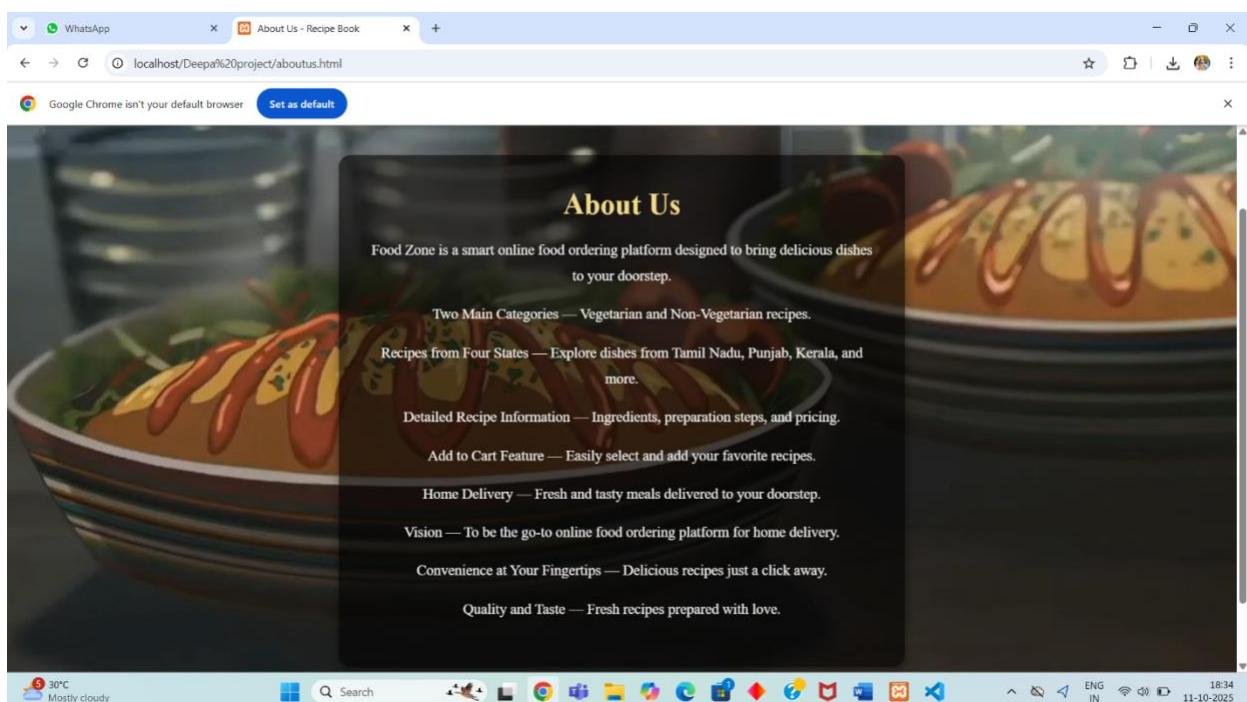
Figure 3.SELECT TYPE PAGE
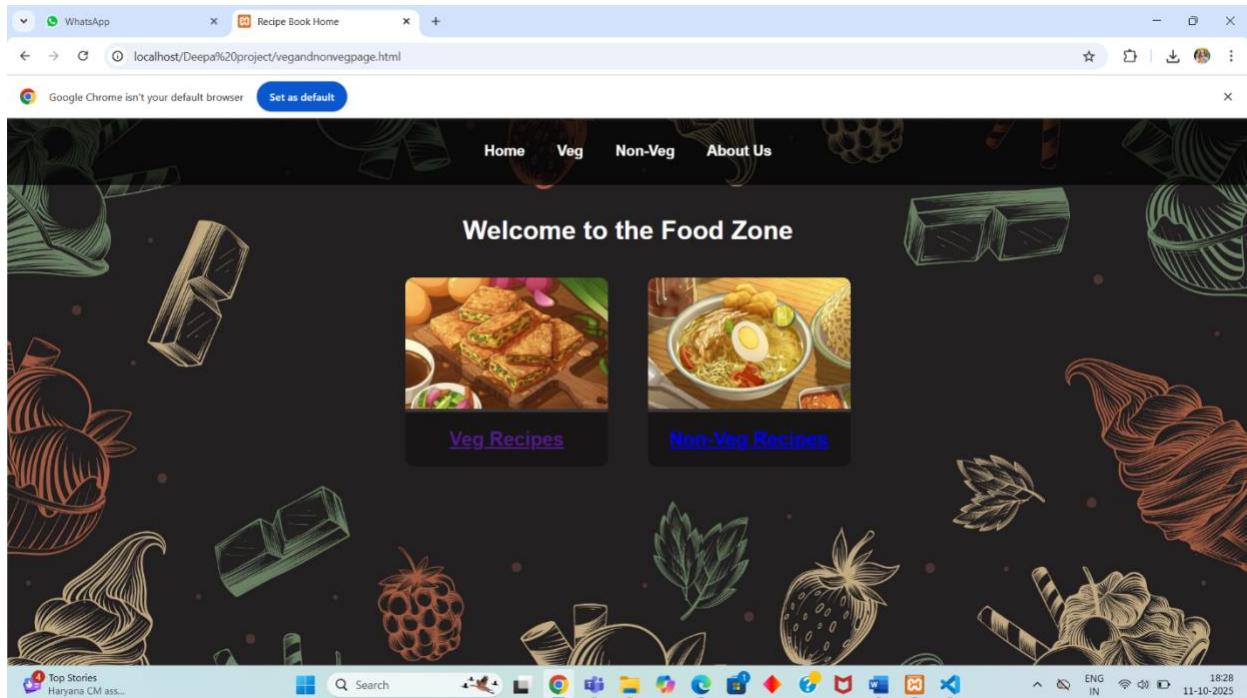
Figure 4.SELECT STATE PAGE
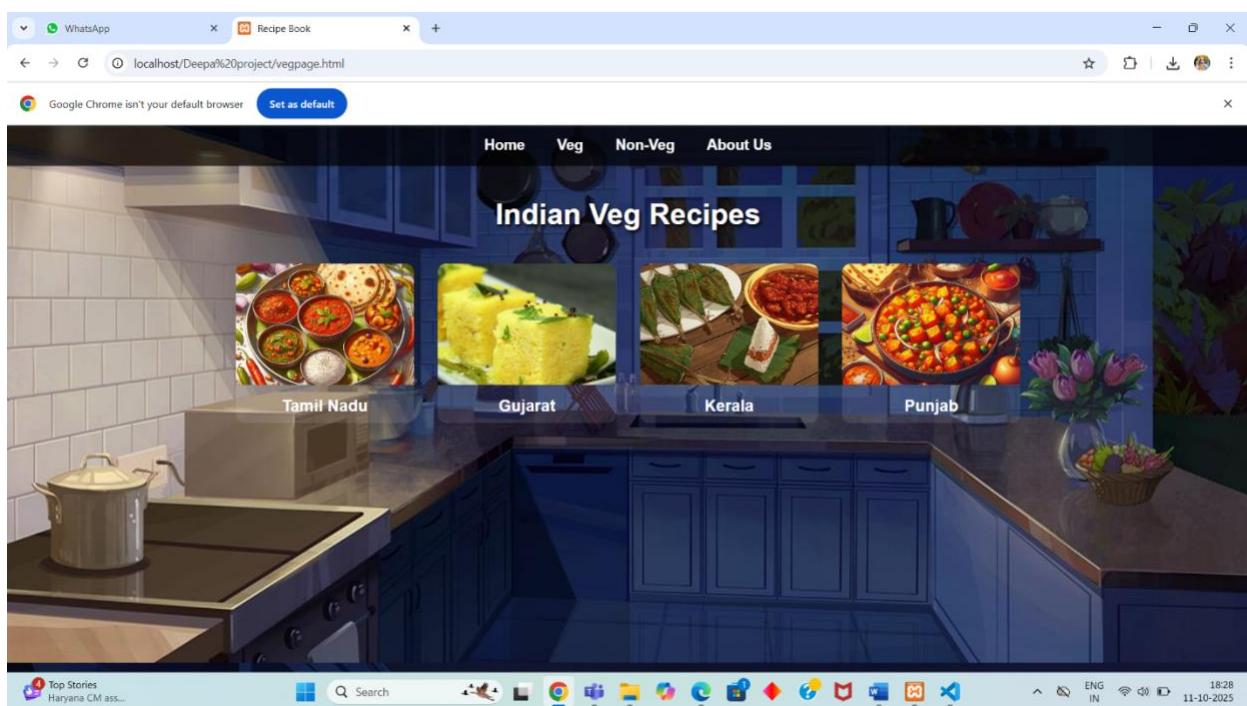
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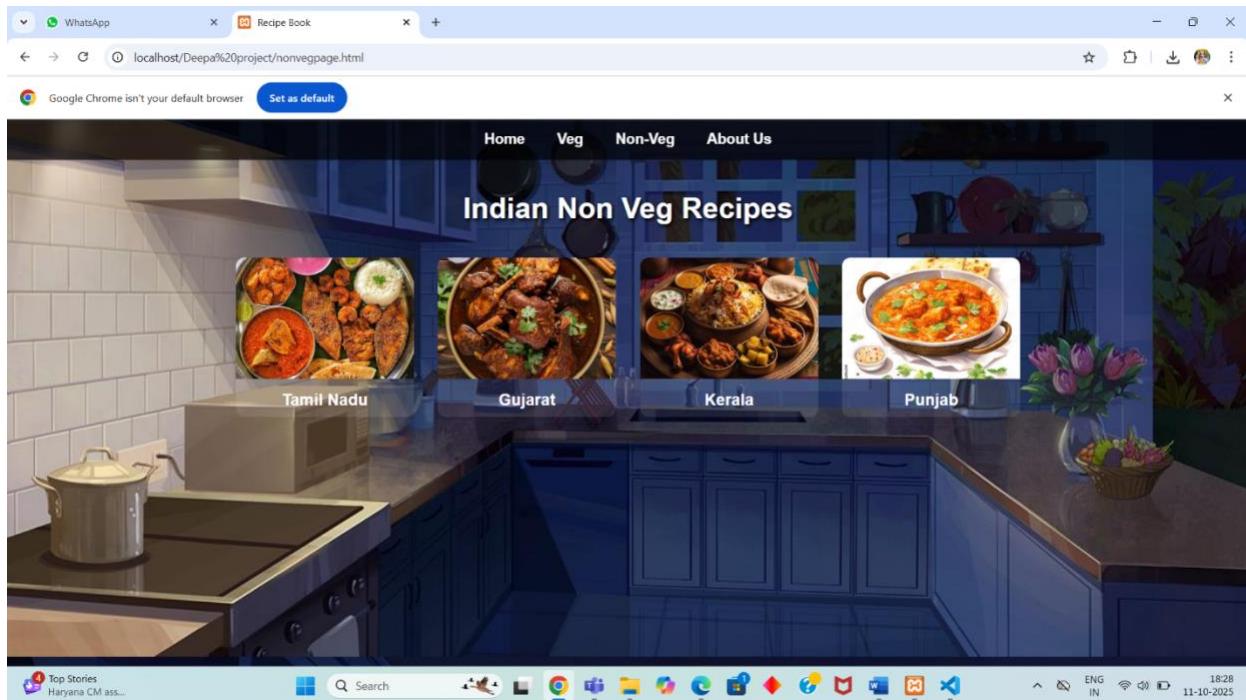

Figure 6.RECIPE LIST PAGE
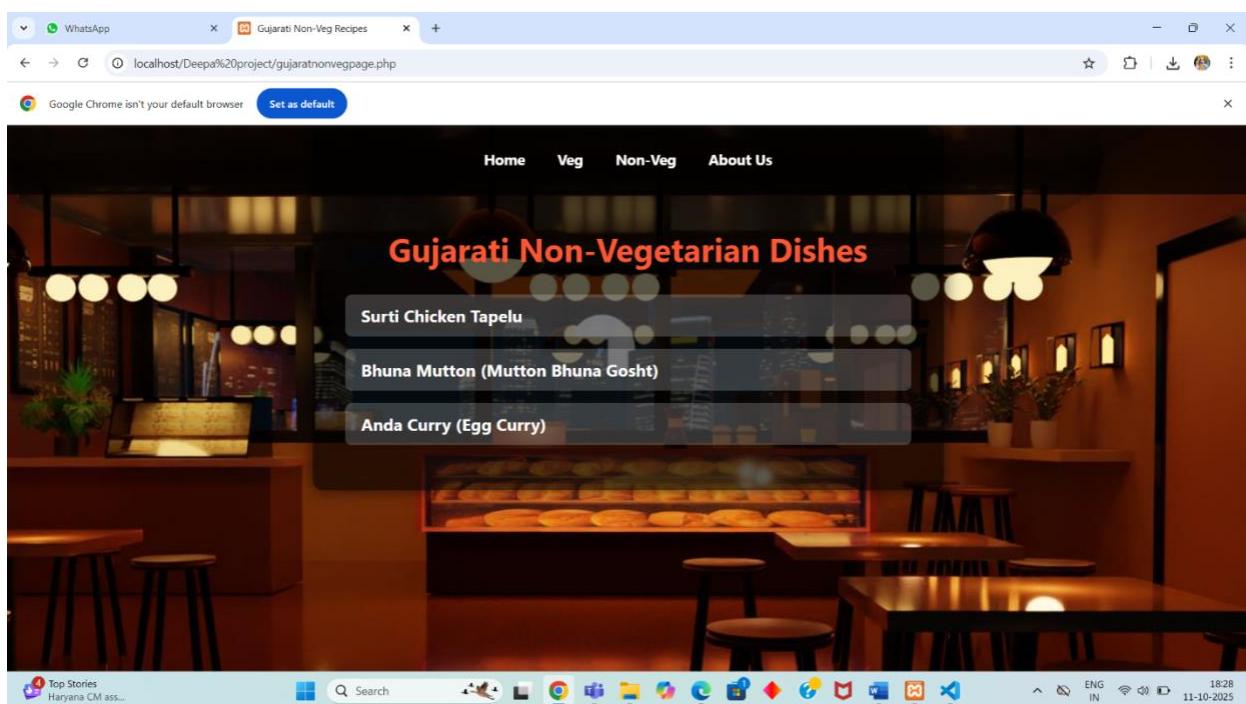
Figure 7.RECIPE PAGE
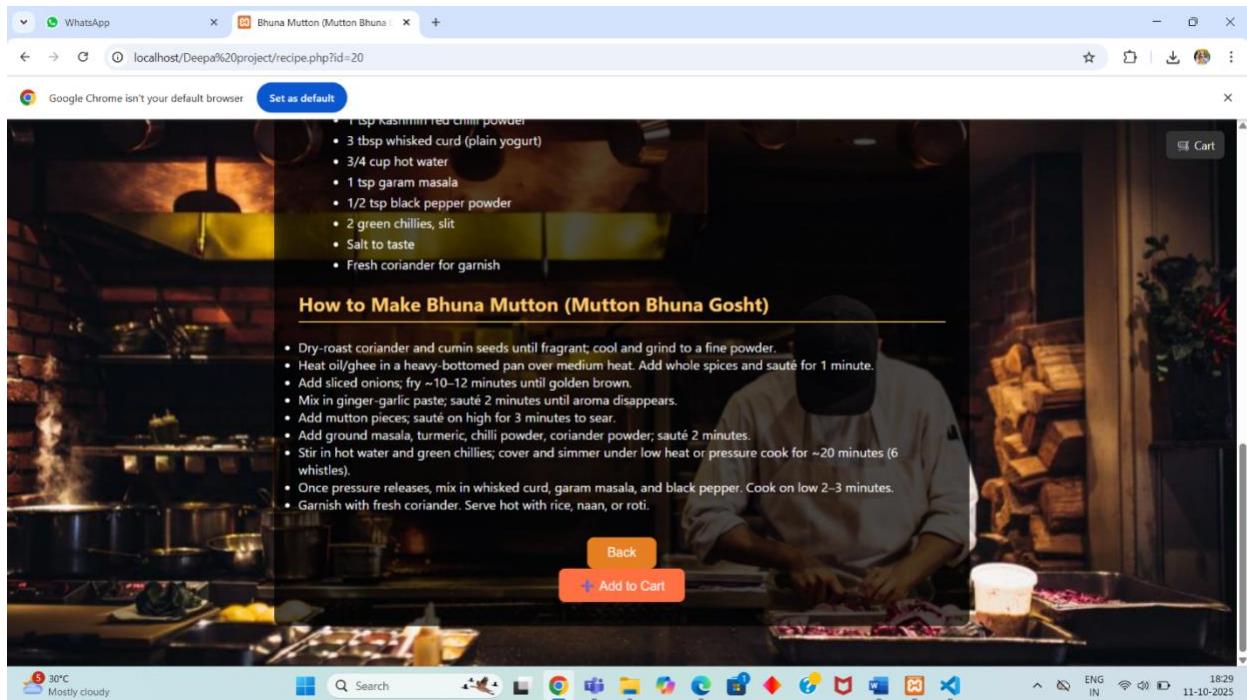
Figure 8. CART PAGE
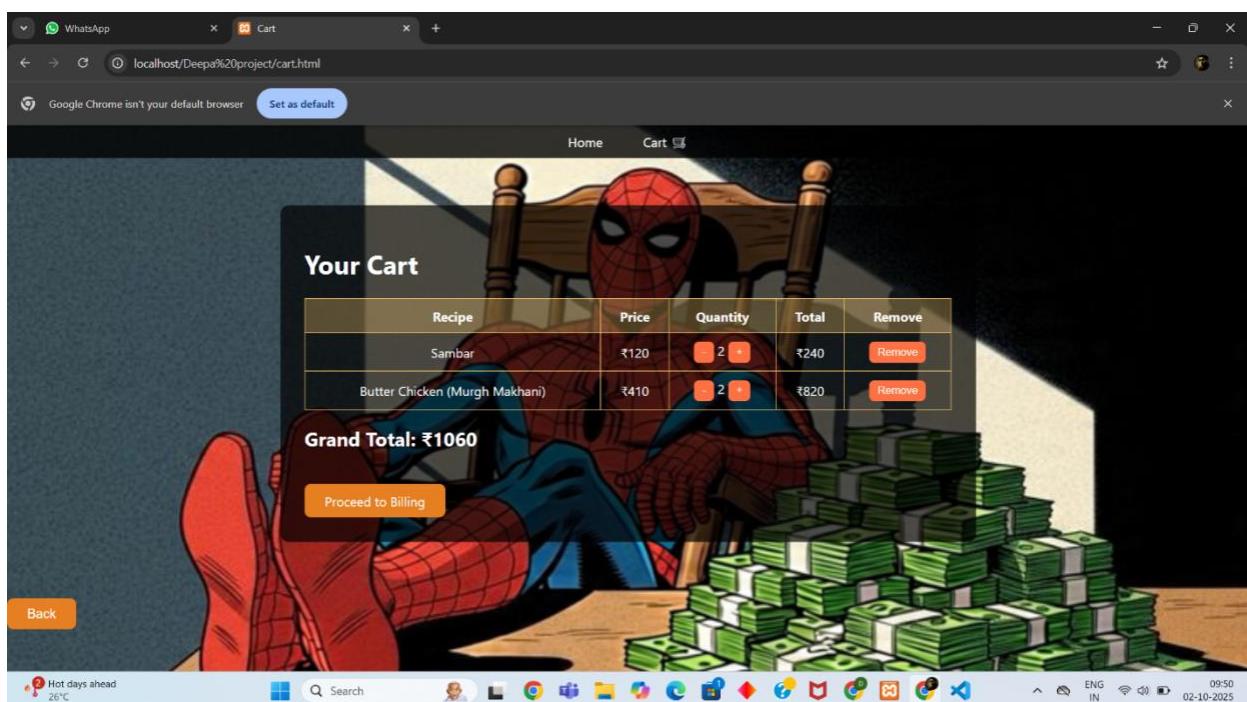
Figure 9.BILLING PAGE
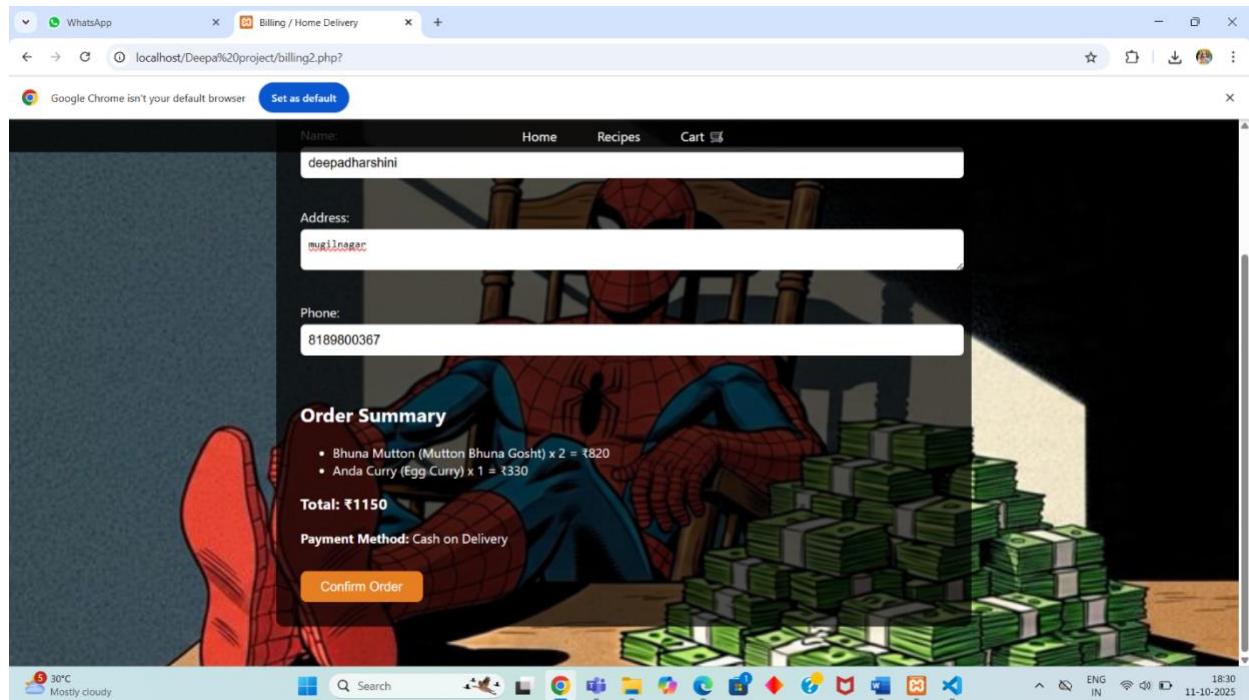
Figure 10.ADMIN LOGIN PAGE
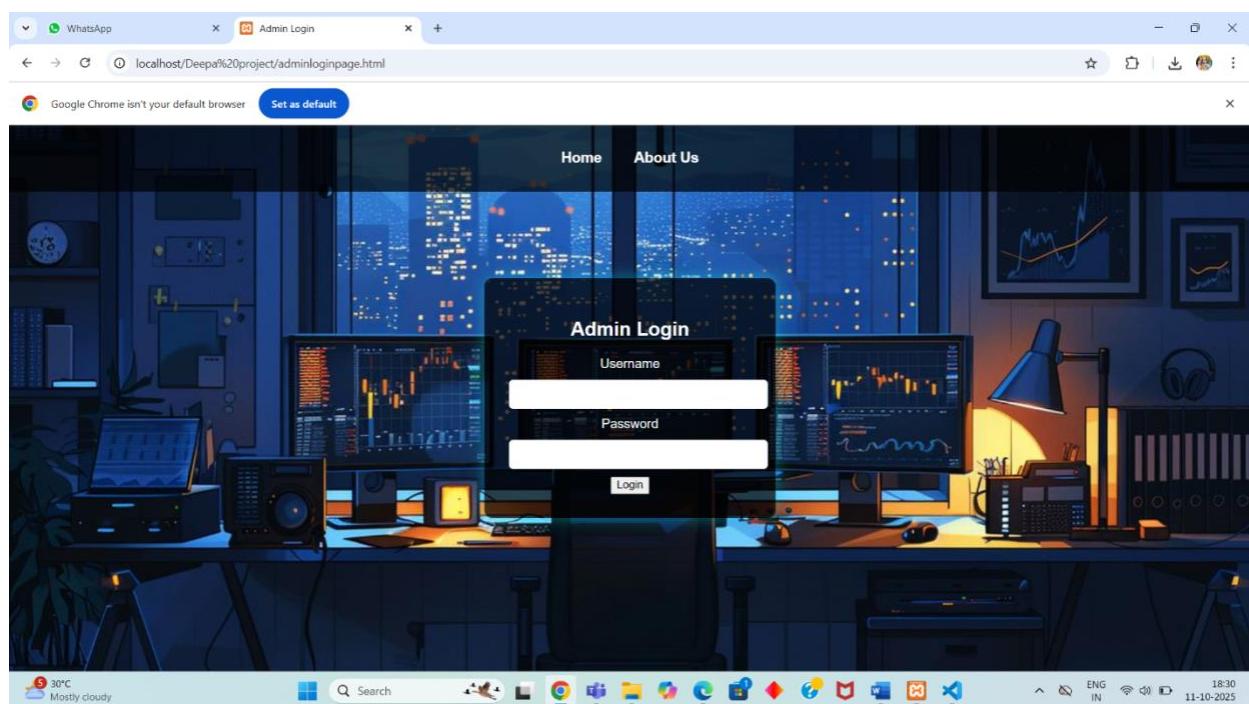
Figure 11.ADMIN DASHBOARD
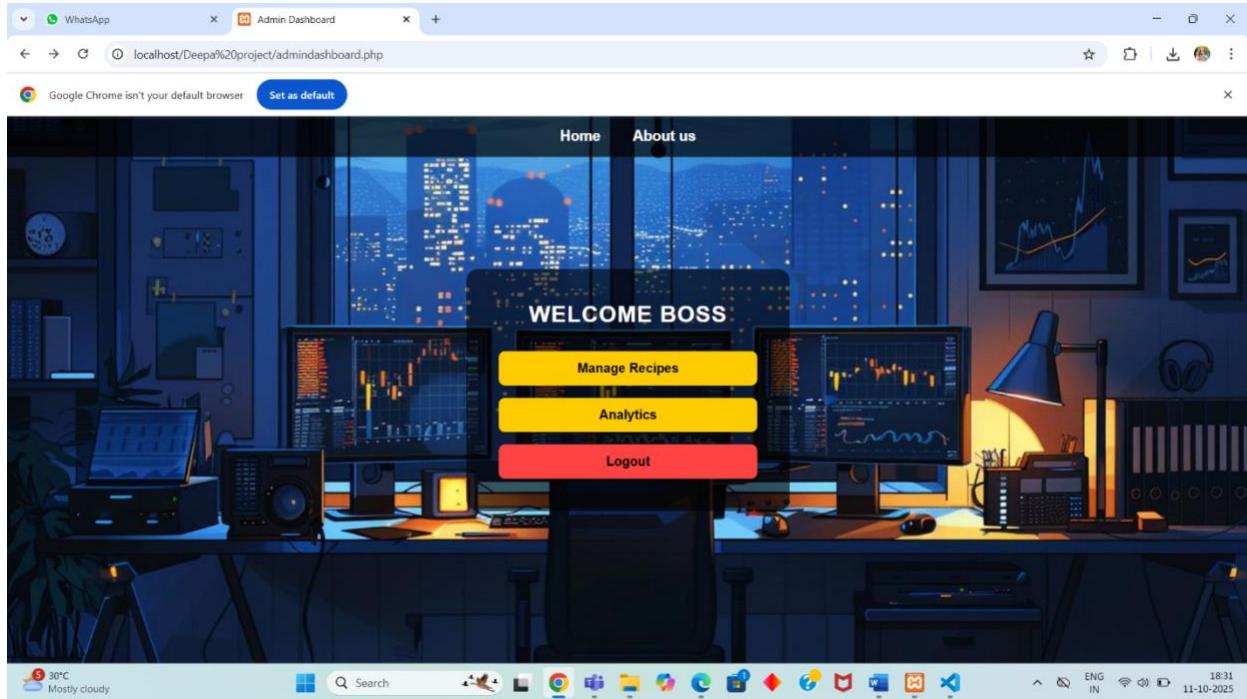

Figure 12.MANAGE RECIPES
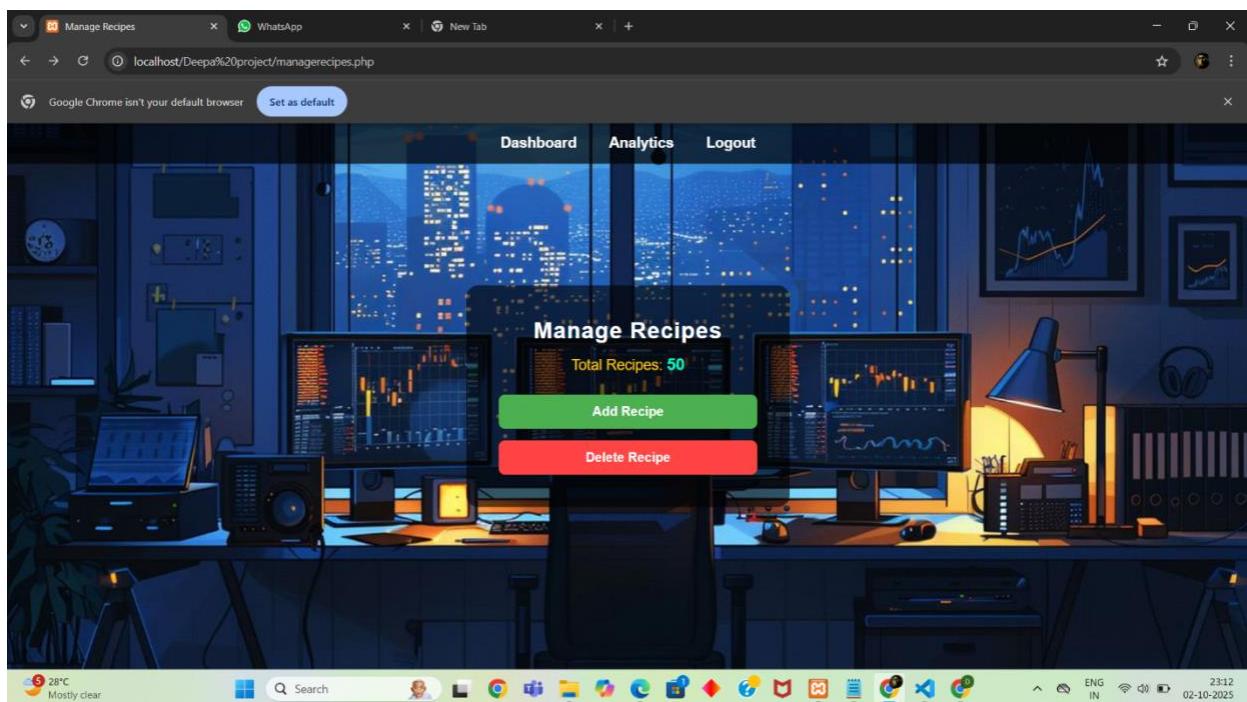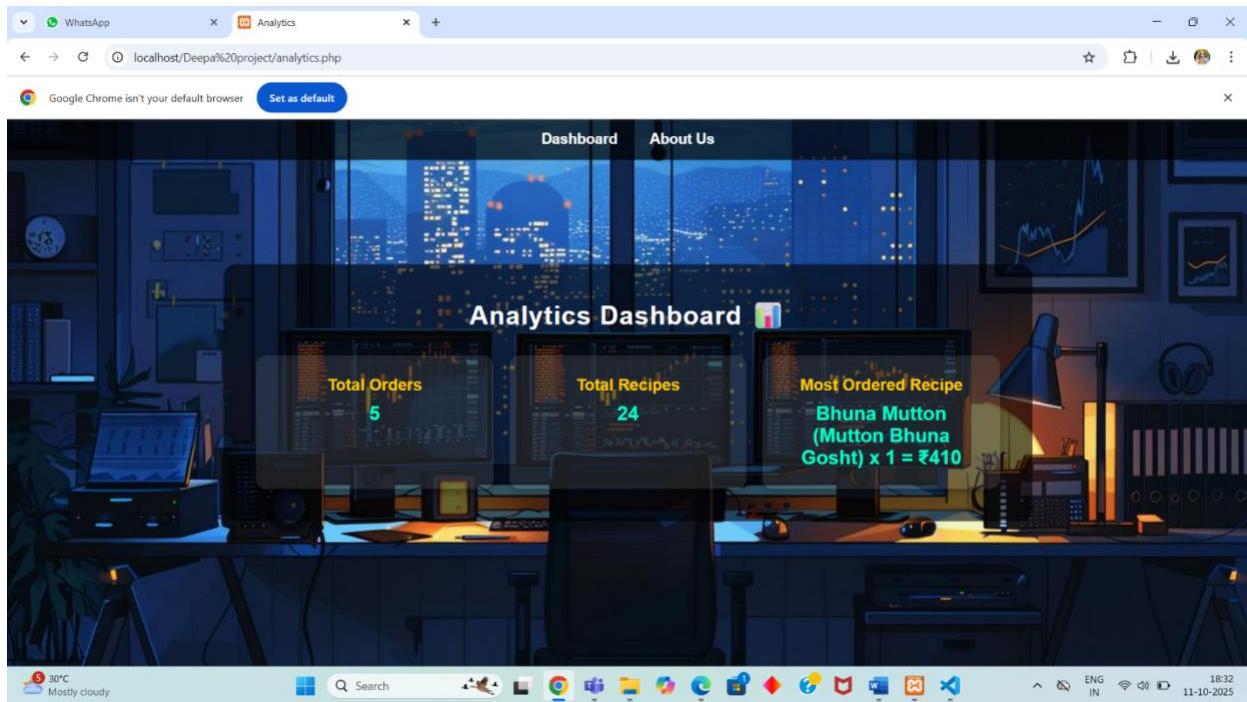
Figure 13.Analytics

5.CONCLUSION

The Online Food Ordering system project successfully demonstrates how technology can simplify and enhance the process of food ordering and recipe management. It provides users with a user-friendly platform to explore, order, and enjoy a wide variety of dishes with ease. By integrating a secure PHP backend and a MySQL database, the system ensures efficient data handling, accurate order processing, and smooth user management. The admin dashboard enables effective monitoring of users, recipes, and orders, ensuring the platform remains organized and up to date. Overall, Food Zone achieves its goal of bridging the gap between food lovers and culinary creators by providing a digital solution that is reliable, efficient, and engaging. In the future, the system can be expanded with advanced features such as AI-based recipe recommendations, online payment integration, and real-time delivery tracking to create an even more dynamic and intelligent food ordering experience..

6.OUTCOME

By developing the Online Food Ordering (Food Zone) project, I gained strong practical knowledge in web development and database management. This project helped me understand how to design interactive web pages using HTML and CSS and how to connect them with a backend using PHP and MySQL for storing and managing user details, recipes, and orders efficiently. I also improved my logical thinking, problem-solving, and implementation skills by creating a fully functional system that simplifies online food ordering. Through this experience, I learned the importance of combining design, functionality, and security to build a user-friendly and reliable web application. Overall, this project enhanced my technical confidence and gave me hands-on experience in applying theoretical concepts to real-world situations, preparing me for future web-based development projects.