DBMS PROJECT REPORT

By: Aanish Bangre (2023300011)

Harshit Bagaria (2023300009)

Krish Agrawal (2023300003)

1. Title:

Cuisine Compass: Pinpoint Your Perfect Dining Destination.

2. Introduction and Objectives:

In today's digital age, dining decisions are influenced by factors such as cuisine type, location, ambiance, price range, and user reviews. With the rapid growth of the restaurant industry, finding a dining destination that perfectly aligns with personal preferences has become increasingly challenging. *Cuisine Compass* addresses this challenge by providing a database management system (DBMS) that helps users easily find dining options based on their specific criteria.

The system will store detailed restaurant information, including cuisine type, location, price range, and ratings, and allow users to filter options to quickly narrow down choices. A recommendation engine will rank restaurants according to user preferences and popular trends, while integrated user reviews will enhance recommendation accuracy. Through this structured approach, *Cuisine Compass* aims to streamline dining decisions and provide users with personalized, reliable dining recommendations.

3. Problem Statement:

With a vast number of dining options available today, finding a restaurant that aligns with specific preferences—such as cuisine type, price, location, and ambiance—can be overwhelming. Users often face challenges due to limited filtering capabilities, lack of personalized recommendations, and inadequate integration of reviews in current systems. Additionally, the need to visit multiple platforms to gather different perspectives on restaurants can be time-consuming and inefficient. This complexity leads to ineffective decision-making, as users may need to sort through extensive lists of restaurants without a reliable way to pinpoint their ideal choice.

There is a need for a solution that can streamline the dining selection process by efficiently organizing and categorizing restaurant information while incorporating personalized recommendations and user feedback. This system will provide users with a streamlined way to discover restaurants that best align with their needs, leveraging advanced filtering, ranking, and review-based recommendations for an improved dining experience**.** By consolidating

information from multiple sources, the system will also reduce the time users spend visiting different platforms to gather different perspectives.

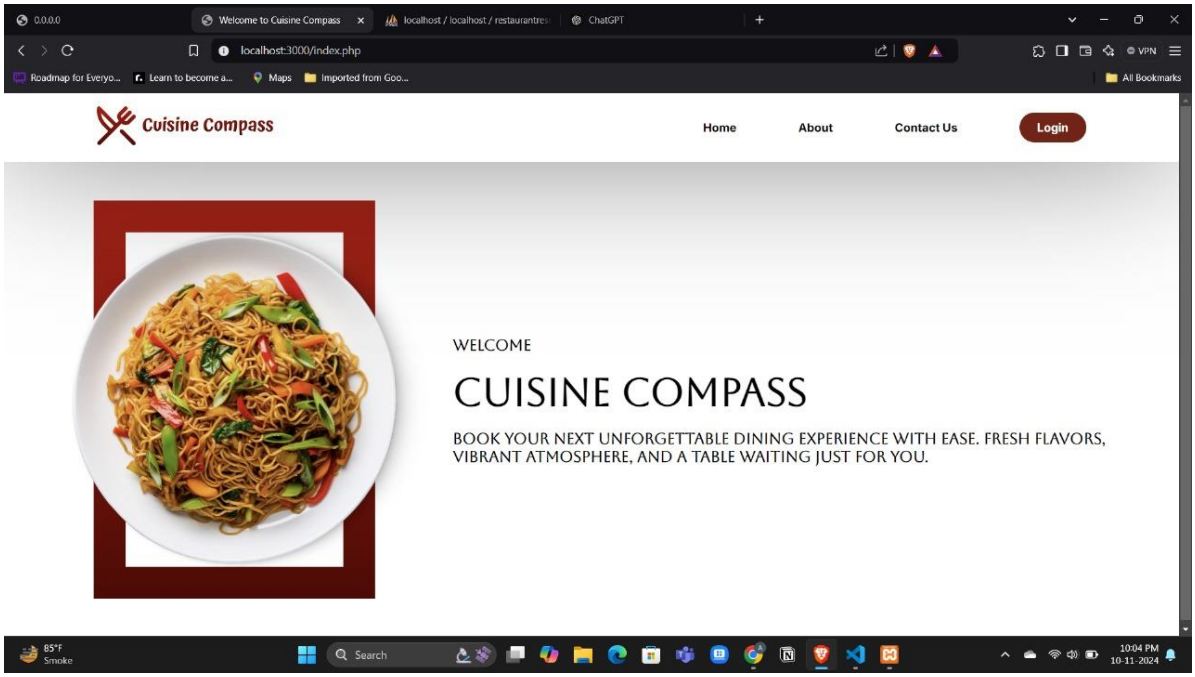
4) Implementation - Tech Stack:

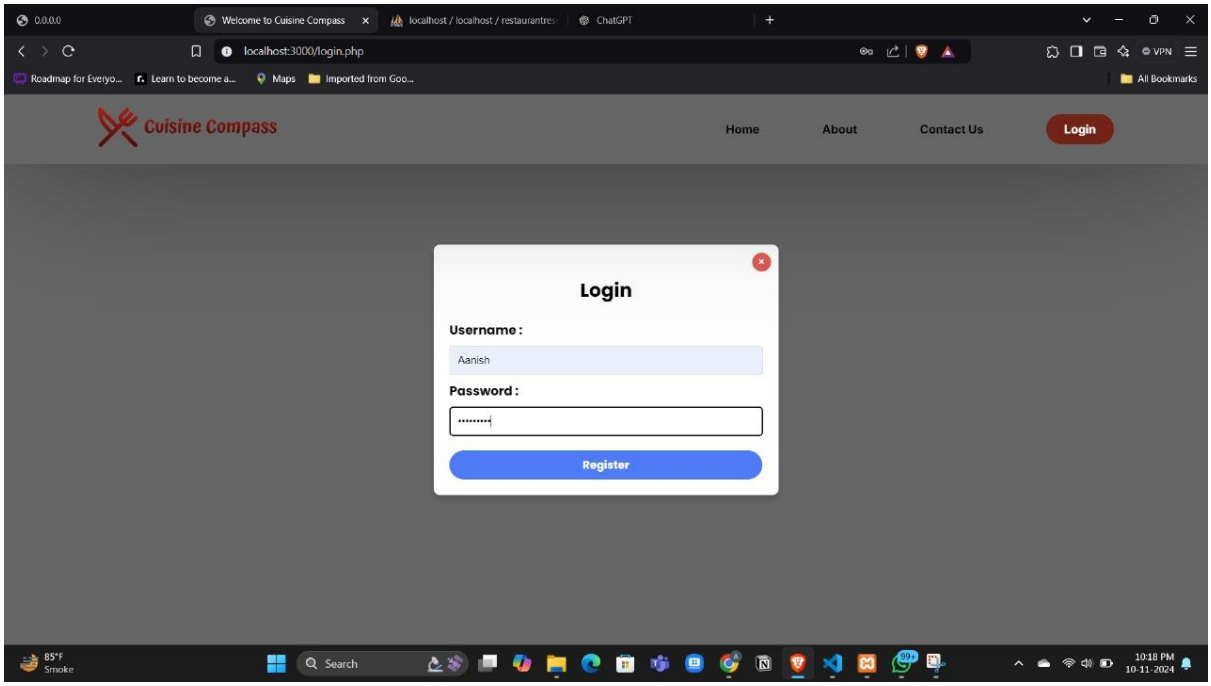
Frontend: The frontend of *Cuisine Compass* is built using HTML, CSS, and JavaScript to create a user-friendly interface. HTML structures the page with sections for search, restaurant listings, and navigation. CSS styles the interface for a clean and responsive design, while JavaScript handles dynamic functionality like filtering restaurant data based on user preferences.

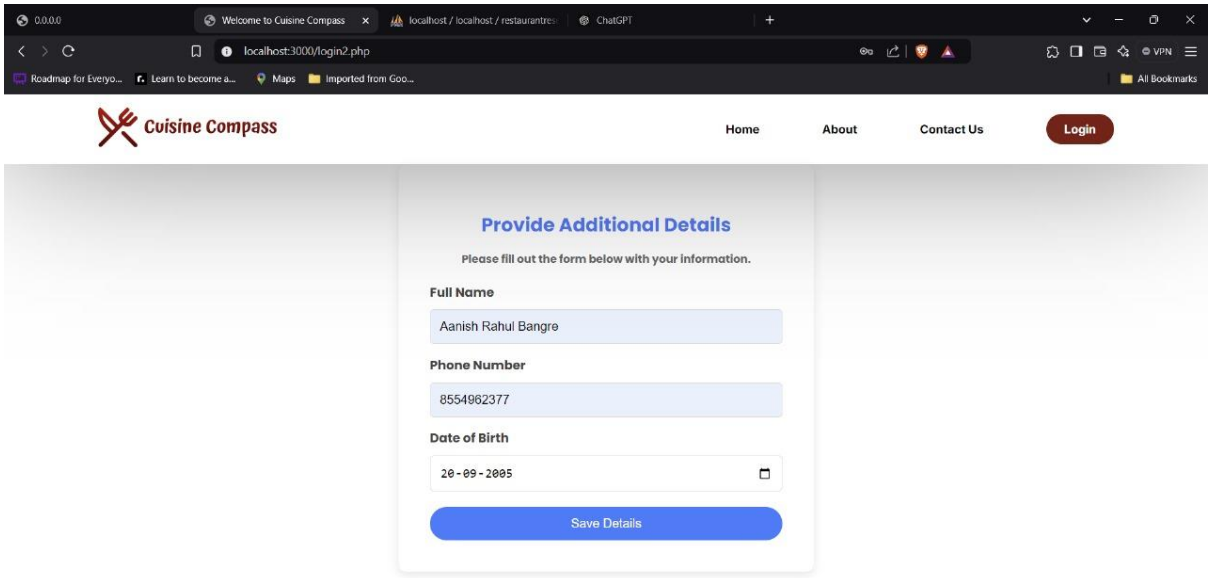
Backend: The backend of *Cuisine Compass* can be implemented using PHP to handle dynamic content and interact with the database. PHP will process user input from the frontend, such as search criteria and preferences, and query the database for matching restaurants. It will then return the filtered results to be displayed on the frontend. Additionally, PHP can handle user registration, login, and storing/retrieving user reviews and ratings for personalized recommendations.

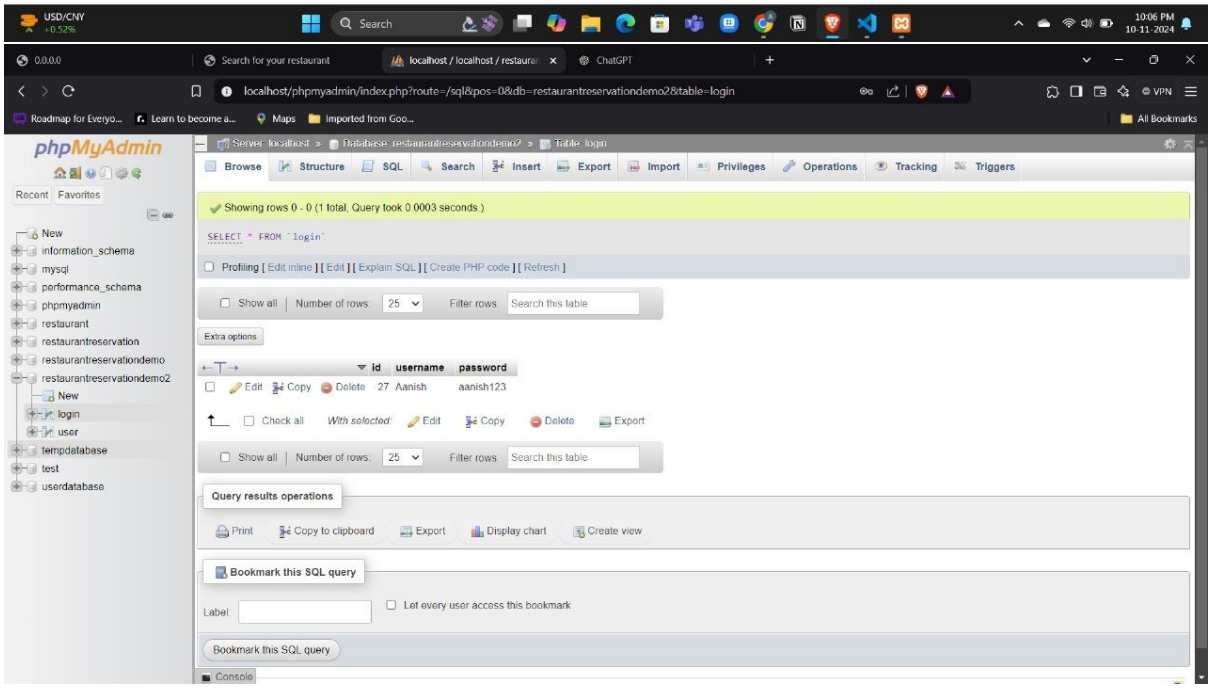
Database: The database for *Cuisine Compass* can be implemented using SQL to store restaurant details, user information, and reviews. Key tables would include *restaurants* (for storing restaurant data like name, cuisine, location, price range, and ratings), *users* (for managing user accounts and preferences), and *reviews* (for storing user feedback and ratings). SQL queries will be used to filter restaurants based on user inputs and preferences, and to retrieve relevant data for personalized recommendations. The database design will ensure efficient storage and quick retrieval of data for a smooth user experience.

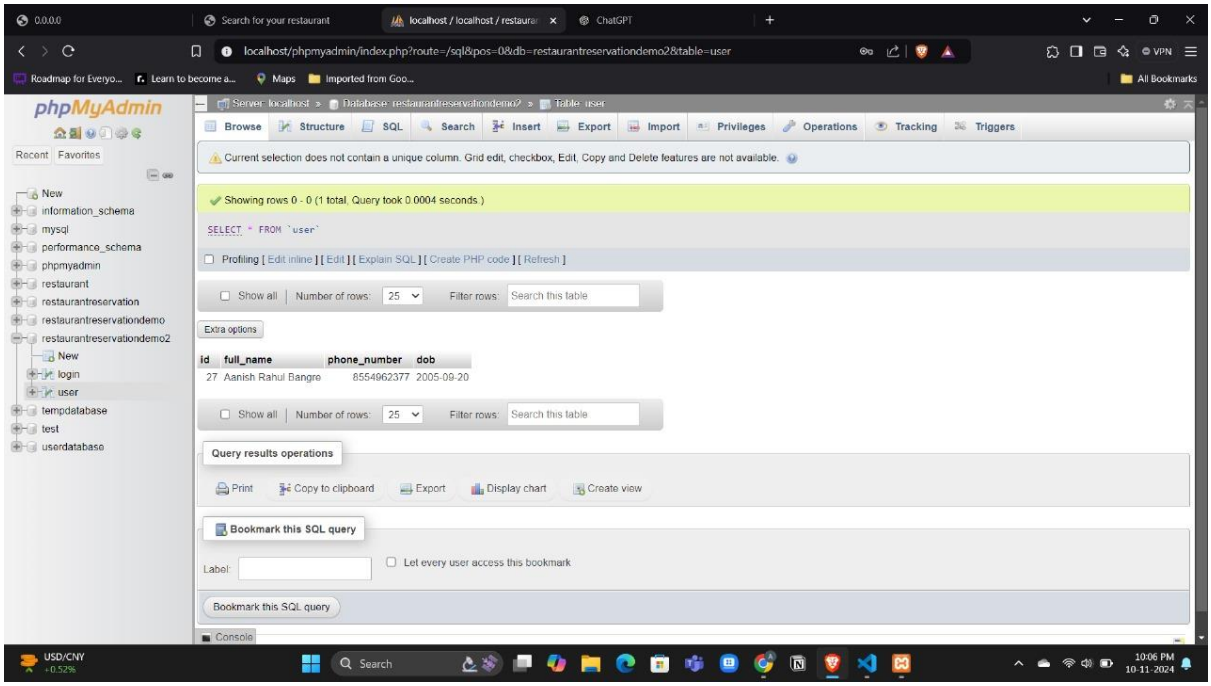
Implementation (screenshots):


Welcome to Cuisine Compass
localhost:3000/index.php
Cuisine Compass
Home
About
Contact Us
Login
WELCOME
CUISINE COMPASS
BOOK YOUR NEXT UNFORGETTABLE DINING EXPERIENCE WITH EASE. FRESH FLAVORS, VIBRANT ATMOSPHERE, AND A TABLE WAITING JUST FOR YOU.


Welcome to Cuisine Compass
localhost:3000/login.php
Cuisine Compass
Home
About
Contact Us
Login
Login
Username :
Aanish
Password :
Register


Welcome to Cuisine Compass
localhost:3000/login2.php
Cuisine Compass
Home
About
Contact Us
Login
Provide Additional Details
Please fill out the form below with your information.
Full Name
Aanish Rahul Bangre
Phone Number
8554962377
Date of Birth
20-09-2005
Save Details


localhost/phpmyadmin/index.php?route=/sql&pos=0&db=restaurantreservationdemo2&table=login
phpMyAdmin
Server: localhost » Database: restaurantreservationdemo2 » Table: login
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Tracking
Triggers
Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)
SELECT * FROM `login`
id
username
password
27
Aanish
aanish123
Query results operations
Print
Copy to clipboard
Export
Display chart
Create view
Bookmark this SQL query
Console


phpMyAdmin
Recent Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
restaurant
restaurantreservation
restaurantreservationdemo
restaurantreservationdemo2
New
login
user
tempdatabase
test
userdatabase
Server: localhost » Database: restaurantreservationdemo2 » Table: user
Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Showing rows 0 - 0 (1 total, Query took 0.0004 seconds.)
SELECT * FROM `user`
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table
Extra options
id full_name phone_number dob
27 Aanish Rahul Bangre 8554962377 2005-09-20
Show all | Number of rows: 25 Filter rows: Search this table
Query results operations
Print Copy to clipboard Export Display chart Create view
Bookmark this SQL query
Label:
Let every user access this bookmark
Bookmark this SQL query
Console
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Search
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