

Termination Project

Title :Restaurant Booking System

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Restaurant Booking System

Project Overview:

The Restaurant Booking System is a comprehensive web application aimed at simplifying appointment bookings at a restaurant. It involves front-end and back-end development to ensure a smooth experience for users, restaurant owners, and administrators. The system employs HTML, CSS, and JavaScript for the front-end, PHP for server-side scripting, MySQL for database management, and XAMPP for local hosting.

Key Features:

Restaurant Details: Displays essential information about the restaurant, including its name, address, location, and special dishes.

Food Menu: Presents a detailed menu with descriptions of available dishes for informed decision-making.

Appointment Booking: Allows customers to fill out a reservation form with their contact details and preferred date/time. Confirmation emails are sent to both the customer and the restaurant owner upon submission.

Appointment Management: Enables users to view, print, reschedule, or cancel appointments after logging in. Secure authentication through OTP ensures data security.

Notification System: Sends automated emails for booking confirmations, rescheduling, and cancellations, facilitating timely communication.

Technology Stack:

Front-End: HTML, CSS, JavaScript

Back-End: PHP

Database: MySQL

Hosting: XAMPP

Work Flow:

Step1:Booking an Appointment

- Initially customer needs to open the restaurant website and then navigate to the booking page by clicking on “Reserve Table “ present in the menu bar or user can scroll down to the bottom of the website to go to the booking page
- Now for Booking an Appointment user needs to enter their Name, Phone Number, Email, Number of persons, Date and Time.

The screenshot shows a dark-themed website interface. On the left, under the heading "Online Reservation", there is a sub-header "Booking request +88-123-123456 or fill out the order form". Below this is a form with input fields for "saikrishna", "6071234567", and "saikrishnak.0705@gmail.com". There are also dropdown menus for "2 Person", "05/06/2024", and "11:00 am". At the bottom of the form are three orange buttons: "BOOK A TABLE", "CHECK RESERVATION", and "CANCEL RESERVATION". On the right, under the heading "Contact Us", there is a "Booking Request" section with the phone number "+1 607 123 4567", a "Location" section with "First Street, Delicious City, India", and two time sections: "Lunch Time" (Monday to Sunday, 11.00 am - 2.30pm) and "Dinner Time" (Monday to Sunday, 05.00 pm - 10.00pm).

- After filling the details user need to click on “Book A Table” button. After clicking on that button the appointment will be booked successfully and a message will be displayed on the webpage and also an email will be sent to the user and also to the owner of the restaurant.

Congratulations! Your appointment has been confirmed.

- Email to the user:

Appointment booking details Inbox x



kasarapukrishna98@gmail.com

to me ▾

Dear saikrishna,
Thank you for booking the table at our restaurant, Please check your appointment details here:
Name: saikrishna
Phone: 6071234567
Email: saikrishnak.0705@gmail.com
No. of persons: 2-person
Slot time: 011:00am
Reservation Date: 2024-05-06

- Email to the Owner:

A new Appointment booked Inbox x



kasarapukrishna98@gmail.com

to me ▾

Hello, a table has been reserved, here are the details:

Name: saikrishna
Phone: 6071234567
Email: saikrishnak.0705@gmail.com
No. of persons: 2-person
Slot time: 011:00am
Reservation Date: 2024-05-06

Regards,
Restaurant

- The appointment details will get stored in the database.

Step 2: Checking Appointment details and Rescheduling Appointment

- To check or reschedule the appointment user needs to click on “Check Reservation” button. After that a login page will be opened, there user needs to enter his login details. The login details are user’s Name and Email that are given while booking the appointment.

Login Form

Name:

Email Id:

- After filling the login details hit submit button, then an otp will be sent to the corresponding email address. Enter that otp in order to login.

Enter OTP

Enter OTP:

- After entering the otp successfully user can see the Appointment details. User can also take a print of the appointment details by clicking “Print” button on the page.
- If user wants to reschedule the appointment then click on the “Reschedule Appointment” button.

Good Restaurant

Below are the details of your upcoming Appointment

Name: saikrishna

Email: saikrishnak.0705@gmail.com

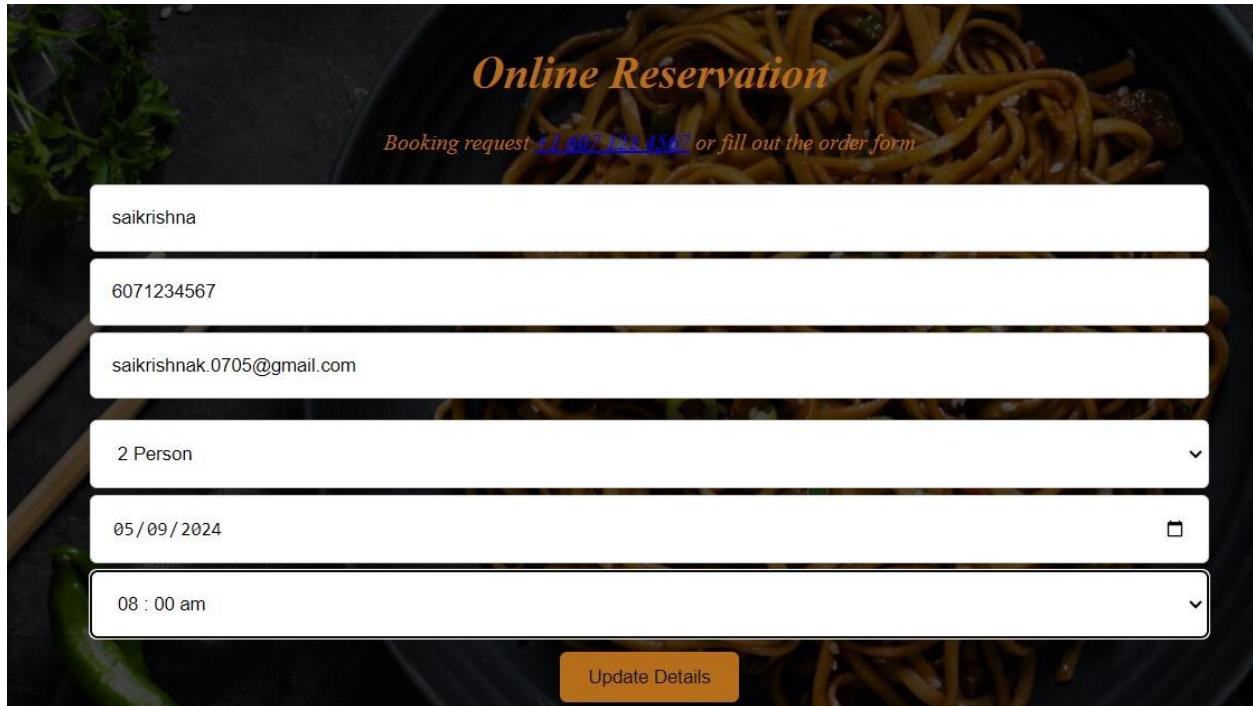
Phone: 6071234567

Date: 2024-05-06

Time: 011:00am

Total Persons: 2-person

- After clicking on the “Reschedule Appointment” button a new booking page will be opened. There user needs to update his details.



Online Reservation

Booking request [6071234567](tel:6071234567) or fill out the order form

saikrishna

6071234567

saikrishnak.0705@gmail.com

2 Person

05 / 09 / 2024

08 : 00 am

Update Details

- After filling the details click on “Update Details” button. Now the details will be updated and an email will be sent to both owner and Customer informing the appointment has been rescheduled and also a message will be displayed on the webpage.

Congratulations!Your Appointment has been Rescheduled.

Step 3: Cancel Reservation

- To cancel the reservation click on the “Cancel Reservation” Button on the home page. After clicking on that a login form will be opened. User needs to enter his login details there.

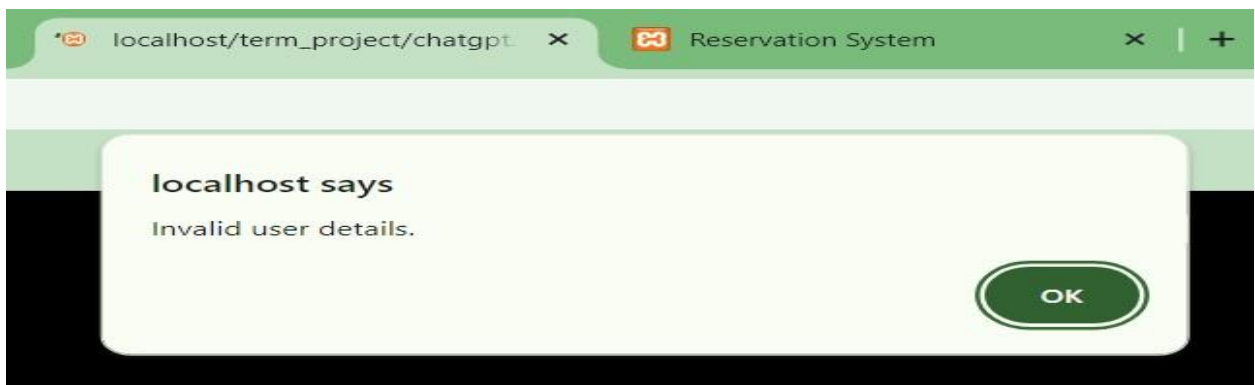


A screenshot of a login form titled "Login Form" on a brown background. It contains two input fields: "Name:" with the value "saikrishna" and "Email:" with the value "saikrishnak.0705@gmail.com". Below the fields is a "Submit" button.

- After entering the details an otp will be sent to the corresponding email address. Enter that otp. As soon as user enters the otp the appointment that was booked under the corresponding Name and Email Address will be cancelled and an email will be sent to both user and owner informing the appointment has been cancelled.

Your Appointment has been Cancelled.

- If user enters wrong login details or a user who has no appointment enters some random name and email address an alert will come indicating “Invalid user details”.



- We can also check whether the details are updating, deleting or not in the database.

Challenges Faced:

- Security: Implementing secure authentication mechanisms like OTP for user login.
- Email Integration: Configuring reliable email functionality for notifications.
- User Experience: Designing an intuitive interface for seamless navigation and booking.

Future Enhancements:

- Payment Gateways Integration: Enable online payment options for booking confirmations.
- Mobile Compatibility: Optimize the system for mobile devices to improve accessibility.
- Feedback System: Implement a mechanism for users to rate their dining experience and provide feedback.
- Admin Panel: Develop a dashboard for restaurant owners to manage bookings, view analytics, and update details.

Conclusion:

- The Restaurant Booking System offers a robust platform for convenient appointment bookings, enhancing the dining experience for customers and streamlining operations for restaurant owners. Its feature-rich interface and effective communication mechanisms ensure a seamless process for all stakeholders involved.

References:

- <https://www.w3schools.com/php/>
- <https://www.youtube.com/watch?v=Ekz9nPPDZyk>
- <https://www.youtube.com/watch?v=kTcmbZqNiGw&list=WL&index=7>