

Capstone Project

Topic :- Hotel Room Booking System.

What is the problem ?

Scenario-Based Problem.

Develop a hotel room booking system that includes the following features :

* User Registration and Authentication :-

- User should be able to register and login using email and password.
- Implement password hashing for security.

* Room Management :-

- Admins should be able to add, edit and delete rooms.
- Each room should have attributes.
- Implement searching and filtering functionality for rooms.

* Booking and Reservation :-

- User should be able to book available rooms.
- Implement ability to modify & cancel bookings.
- Check out process should include entering guest details and payment information.

* Order History and Management :-

- User should be able to view their booking history.
- Admins should manage bookings, including changing status of bookings.

* Reviews and Ratings:-

- Users should be able to give reviews and ratings for the rooms.

forms that I include :-

(1) User registration form

to create the account.

(2) Login form

for user to access the system

(3) forgot password form

to reset the password

(4) Room Search form

to search for available rooms based on criteria like date, room type - AC, non AC, delux.

(5) Room booking form

Used for booking a room room type, check in and including selecting checkout dates.

(6) Guest information form

Collects information about guest (name, contact no).

⑦ payment details fm

f& entering payment information (credit card, bank details).

⑧ Booking Confirmation fm

displays booking details f& review and confirmation.

⑨ Cancellation fm

allows user to cancel a booking

⑩ feedback fm

get the feed back from guests after their stay

⑪ Amend Booking fm

f& modifying booking details (date, room type)

⑫ Room availability fm.

f& internal use by hotel staff to manage

view room availability.

⑬ check-in - fm.

f& guest to check in online before arriving at hotel

⑭ check-out - fm

f& guest to check out and settle their bill.

⑮ Customer Support request fm.

f& guest to request support or report issues

⑯ Invoice fm

display bill breakdown and guest's stay.

⑰ Loyalty program registration fm.

allows guests to enroll in hotel's loyalty program.

⑱ Special offers and discounts fm

display and applies available promotions.

⑲ Room service request fm.

guest request room services.

③ Event Booking fm.

fm booking additional services like conference rooms, wedding halls and etc...

④ food booking fm.

to book food in the hotel

Front End and Back End

⇒ In frontend we include HTML, CSS and JavaScript.

- * User Registration fm (HTML)
- * Login fm (HTML)
- * Room Search fm (HTML)
- * Room Booking fm (HTML)

⇒ In Backend we use Server SetUP and Database.

The database include user model and room model.

- * Server Set up.

28/8/24

forms

* User Registration

First name	<input type="text"/>
Last name	<input type="text"/>
Phone	<input type="text"/>
Email	<input type="text"/>
Check-in password	
<input type="text"/>	
Check out password	
<input type="text"/>	
Register	

* Login form

Username	<input type="text"/>
Password	<input type="text"/>
Login	
Don't have a account? Sign up here.	

* forgot Password

Enter E-mail address :	
<input type="text"/>	
Reset Password	
Enter new password	
<input type="text"/>	
Confirm	

* Room Search form

Available Rooms	
By type	
Apartment	4
Double Room	8
Family Room	8
Single Room	6
Studio	8
	View calendar

✓ Validated ✓

* Room Booking form

Name	<input type="text"/>		
E-mail	<input type="text"/>		
Phone no.	<input type="text"/>		
Arrival date	<input type="text"/> date	<input type="text"/> month	<input type="text"/> year
Number of nights	<input type="text"/>		
Number of guests	<input type="text"/>		
Submit			

* Guest information form.

first name	last name
email	
Passport/Identity Adm	
Address	
city	State
Nationality	
Submit	

* Payment Details

Select Payment Method

	Credit Card
	Debit Card
	UPI
	Net Banking
	wallets
	EMI

* Booking Confirmation

Hotel name	
Administrative name	
Contact	
Room type	
Housing amount	
Other fee	

* feed back form

Staff Service	★ ★ ★ ★ ★
Cleanliness	★ ★ ★ ★ ★
facilities	★ ★ ★ ★ ★
Would you recommend	<input type="checkbox"/> Yes <input type="checkbox"/> No
feedback	<input type="text"/>
Submit	

* Cancellation form

Guest name	
Reservation number	(1000000000)
Reason for Cancellation	
Signature	
Verification OTP	1234

* Event Booking form

Guest name	(GUEST001)
Reservation number	(1000000000)
Book hall	
Conference hall	
Wedding hall	
Auditorium	

* food booking form

Select your food type

Veg

Non-Veg

Rice

Chicken

Meals

Fish

Dal

Biryani

* Special offers and discounts.

30% off for

family Room

Summer +

- free food.

Apply

Continue

* Amend Booking f&m.

Guest name

Contact

Previously booked date

Date Month Year

Modified date

Date Month Year

Submit

* Room Availability f&m.

Available rooms list

Appartment	4
Double Room	8
family Room	6
Single Room	7

* Customer Support f&m.

Need Help

Address your problem

Feedback section

Please rate our service

What can we do better?

Sorry for any inconvenience
we will rectify it soon.

* Room Service f&m.

Guest name

Contact

Room no

Comments

Submit

Tasks

Home Page

* display in bold "Welcome to hotel room booking system". Show a button to register into account if already have an account then login to page.

Registration Page

* includes all details of user and set the password after registration display account created successfully in a separate page.

Login Page

* Enter user name & Password, and login to the page. if the password is wrong, click on forgot password.

Forgot Password

Give user name and Email and click on send verification code.

Verification Page

click on Enter the verification code sent to E-mail and if the code is correct display that the password changed successfully.

Select Places of Stay

include a scroll down box to select the places that you are going to book room.

Available Hotel Rooms

Display the available hotel rooms where the user had selected the place along with cost.

Room booking form

Select the type of room you want to book, date of booking & stay, out date and no. of persons with all the necessary details.

Guest information form

To display the information of the guest and their proof id's.

Payment details

Enter the payment information and mode of payment + select.

Booking confirmation :- Show all the confirming the booking

Cancellation form :- Give the guest information & address, the reason for cancellation, also select refund option.

Event Booking form :- Give the type of hall they want to book and its cost.

Food booking form :- display the available food menu in that hotel along with cost & offers.

Special offers & discounts :- address all the special offers & discounts applying to the guest based on their stay.

Amend Booking form :- Enter the user details & book then modify the booking details and reason of modification needs to be addressed.

Room Service form :- Give your room number and raise your complaint & submit.

Customer Support form :- address your problem either through chat / voice message with your room number.

feedback form :- give ratings and experience of your stay.