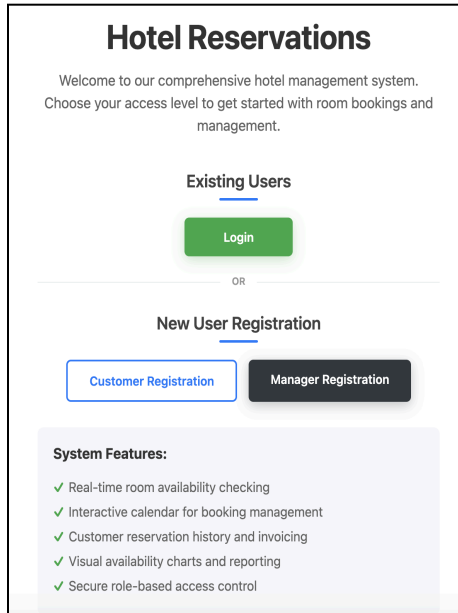


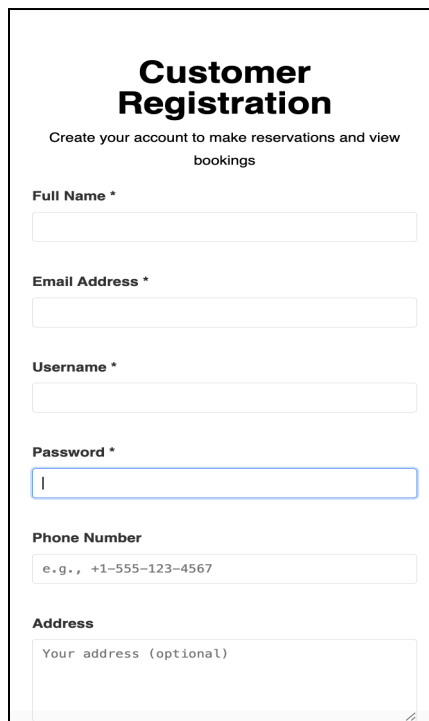
Hotel Room Project Documentation

1. To run the app, clone the following git repository:
<https://github.com/ucsc2025-cse183/project-6/tree/main>
2. Navigate to the cloned repo, and run the following command to start the server: **py4web run apps**
3. Once the server is up, you can navigate to the Home Page URL through:
http://127.0.0.1:8000/hotel_reservations



The screenshot shows the 'Hotel Reservations' home page. At the top, it says 'Welcome to our comprehensive hotel management system. Choose your access level to get started with room bookings and management.' Below this, there are two main sections: 'Existing Users' with a green 'Login' button, and 'New User Registration' with two buttons: 'Customer Registration' (outlined in blue) and 'Manager Registration' (solid dark grey). At the bottom, there is a 'System Features' section with a list of five features, each preceded by a green checkmark: 'Real-time room availability checking', 'Interactive calendar for booking management', 'Customer reservation history and invoicing', 'Visual availability charts and reporting', and 'Secure role-based access control'.

4. If you are an existing user, the login button will allow you to login to either your customer or manager account.
5. If you haven't registered yet, you have the option to sign up as a customer or a manager.
6. For the Customer Registration, you will be redirect to the following URL:
http://127.0.0.1:8000/hotel_reservations/customer/register



The screenshot shows the 'Customer Registration' form. The title 'Customer Registration' is at the top. Below it, the instruction 'Create your account to make reservations and view bookings' is displayed. The form contains several input fields: 'Full Name *', 'Email Address *', 'Username *', 'Password *' (with a strength indicator bar), 'Phone Number' (with a placeholder 'e.g., +1-555-123-4567'), and 'Address' (with a placeholder 'Your address (optional)').

7. Upon registering, you can click the login button at the top right to login with the username and password you have created
8. Once logged in, you will be redirected to the customer dashboard, showcasing your reservations:
http://127.0.0.1:8000/hotel_reservations/customer

My Profile

Name: Aditya Mokkaapati	Email: amokkapa@gmail.com
Phone:	Address:

My Reservations
No reservations found.

9. For the Manager Registration, you will be redirect to the following URL:
http://127.0.0.1:8000/hotel_reservations/manager/register

Manager Registration
Create a manager account to manage customer reservations and rooms
Username *

Email Address *

Password *

Full Name *

Phone Number *

10. Upon successful registration for the manager account, you can click the login button at the top right to login with the username and password you have created.
11. Once logged in, you will be redirected to the manager dashboard in which you will be presented with a calendar view:
http://127.0.0.1:8000/hotel_reservations/reservations

Hotel Reservations

Select dates on the calendar and choose a room to make your reservation.

[Edit Room Configuration](#) [Customer Search](#)

< > today **June 2025** month week

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	1	2	3	4	5
6	7	8	9	10	11	12

12. On the manager page, you can add and edit specific room configurations as well as search for customers
- a. **Edit Room Configuration** routes you to http://127.0.0.1:8000/hotel_reservations/manager/rooms where you can add edit and delete room types by clicking on add new room and inputting the number of beds, price per night, and amenities. Once the rooms are added on the Room management page you can view all rooms, search and edit them as you wish

Room Management

Manage hotel rooms, pricing, and amenities

[← Back to Reservations](#) [+ Add New Room](#)

0
Total Rooms

\$0
Average Price

\$0
Lowest Price

\$0
Highest Price

Search rooms by ID, amenities, or price...

No rooms found

Click "Add New Room" to get started.

Add New Room

Number of Beds *

Price per Night (\$) *

Amenities *

e.g., WiFi, TV, Air Conditioning, Mini Bar...

[Cancel](#) [Add Room](#)

- b. **Customer Search** routes you to http://127.0.0.1:8000/hotel_reservations/manager/customers in which the manager can search for customers by name, email, or phone number and a list of all

registered customers are on display:

Customer Search

Search and view customer information and reservations

← Back to Reservations

Search customers by name, email, or phone number...

Showing 2 of 2 customers

Total: 2

Name	Email	Phone	Address	Actions
amir noori	meoiemdi@gmail.com	2093020660	mddmd	View Details
jerry li	jli@gmail.com	1234567890	N/A	View Details

13. Continuing to scroll down on the manager page past the calendar view, is where you can create a reservation by inputting the room type (created in room management), entering a customer name or email, check-in date, check-out date, and optionally any special notes. Once the reservation is created, it will appear on the calendar view, and there is also an option to check for availability instead of creating the reservation immediately:

Make a Reservation

Select Room:

Room 1 - 3 bed(s) - \$200.0/night

Customer (Name or Email):

amokkapa@gmail.com

Room Details

Beds: 3

Price per night: \$200.0

Amenities: WiFi

Check-in Date:

06/13/2025

Check-out Date:

06/16/2025

✓ Room is available for 3 night(s)
Total Cost: \$600.00

Special Requests (Optional):

Any special requests or notes...

Check Availability

Make Reservation

Make a Reservation

Reservation created successfully! Reservation ID: 1. Total cost: \$600.00. Customer: Aditya Mokkaapati

14. Now, when you login as the added user, you will be able to see the invoice showing room information.
Click on view invoice to see the room information:

[← Back to Reservations](#)

Invoice

Hotel Name
123 Hotel Street
Hotel City, HC 12345
Phone: (555) 123-4567

Bill To:

Aditya Mokkapati
N/A
amokkapa@gmail.com
N/A

Invoice #: INV-00001

Description	Details	Amount
Room 1 (3 beds) Amenities: WiFi	Jun 12, 2025 - Jun 15, 2025 (3 nights × \$200.00)	\$600.00
Total:		\$600.00

Thank you for choosing our hotel!