AUTOMATED MEETING ROOM BOOKING SYSTEM

STREAMLINING THE MEETING ROOM RESERVATION PROCESS

Presentation by : WFS7 Team 4

PROJECT SCOPE

1. <u>Objective:</u> Automate the booking process for meeting rooms within a company.

2. <u>Key Features:</u>

- Search and book meeting rooms based on requirements.

- Different user roles with specific permissions: Admin, Manager, and Member.

USER ROLES AND PERMISSIONS

1. **Admin:**
- Create and configure meeting rooms.
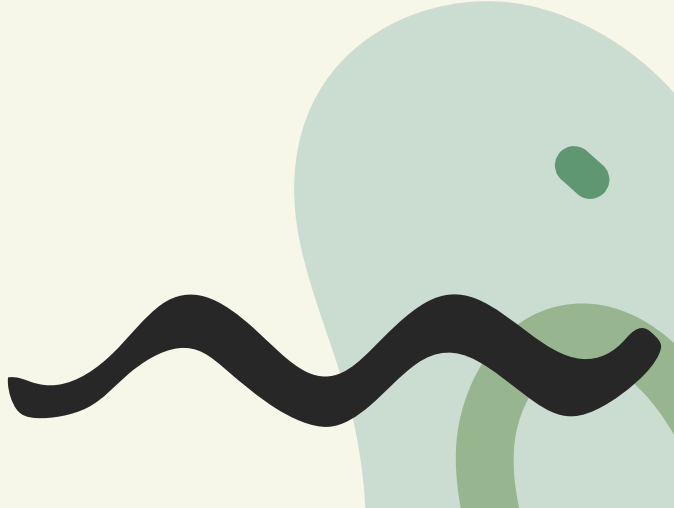- Manage user roles and permissions.

2. **Manager:**
- Book meeting rooms based on needs (e.g., seating capacity, amenities).
- Use credits to book rooms.
- Credits reset to 2000 points every Monday morning.

3. **Member:**
- View meeting schedules.
- Cannot book rooms.

BOOKING AND CREDITS SYSTEM

1.
Credits Requirement:
Managers use credits for booking.
Initial Credits:
- Managers: 2000 credits.
- Members: 0 credits

2.
Credits Renewal:
Automated task resets Manager credits to 2000 every Monday at 6 AM.

MEETING ROOM DETAILS

ATTRIBUTES

- Seating capacity.
- Amenities (e.g., projector, conference call, whiteboard, TV, water dispenser).

COST

Per hour cost in credits, varying by amenities.
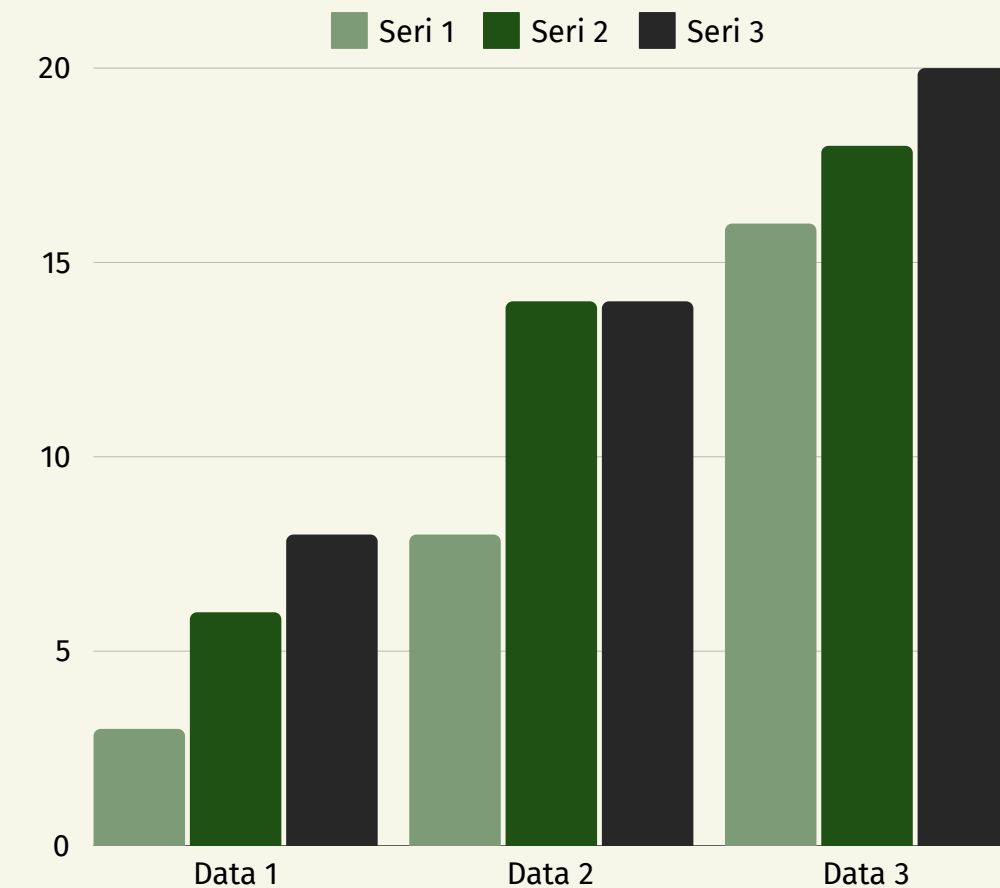
SYSTEM FUNCTIONALITIES

1. Landing Page:
- Navigation to room details and user login.
2. User Management:
- Import user data from XML (Name, Email, Phone, Role).
- User login based on role.
3. Room Management:
- Admins create, edit, and manage meeting rooms.
- Interface for selecting amenities and seating capacity.

TECHNICAL IMPLEMENTATION

- **UI Team:** Responsible for designing and developing the user interface using HTML, CSS, JavaScript.
- **Back End Team:** Develop business logic, data access, and database.
- **Architecture:** Layered architecture with loose coupling.
- **Design Pattern:** MVC (Model-View-Controller).

DEVELOPMENT GUIDELINES FOLLOWED

1. Exception Handling: Implement robust error handling.
2. Input Validation: Validate user inputs to ensure data integrity.
3. UI Design: Consistent layout with header, footer, and sidebar.
4. Security: Ensure unauthorized users cannot access the system.
5. Logging: Record logs for all unhandled exceptions.

UI DEPICTION
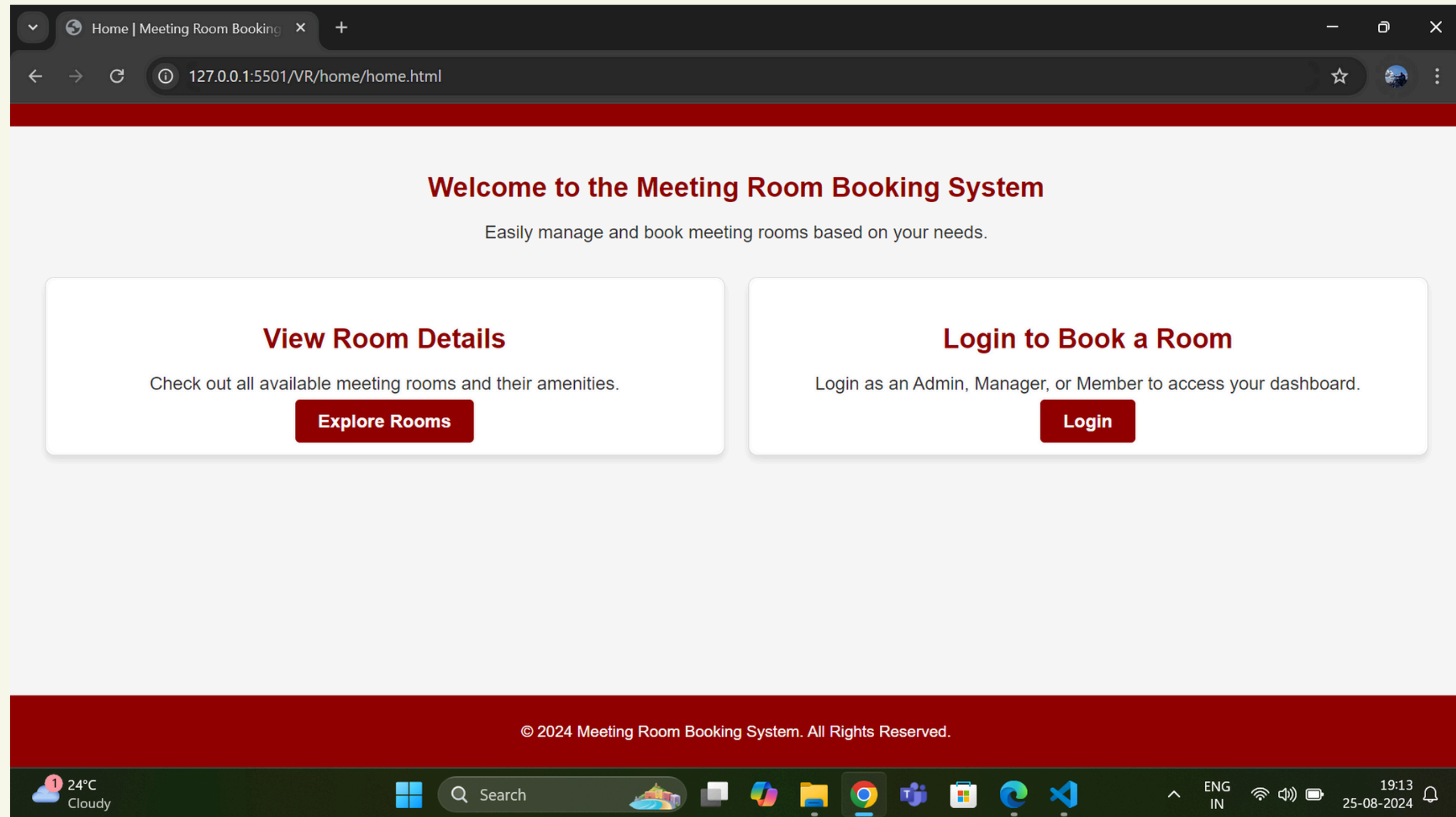
Login

Email:

admin@example.com

Name:

Vansh Sharma

Login

Admin Dashboard

➕

Create Meeting Room

👤+

Add Users

Automated Meeting Room Booking System

Home   View Rooms

Book a Meeting Room

Room Name:

Room1

Seating Capacity:

50

Per Hour Cost (in credits):

40

Meeting Type:

Classroom Training

Amenities:

Projector, Whiteboard

Book Room

Available Rooms

Room1

Seating Capacity: 50

Per Hour Cost: 40 credits

Meeting Type: classroom

Amenities: Projector, WiFi, Whiteboard

-->

Add New User

Name:

Email:

Phone:

Role:

Admin

Add User   **Back to Dashboard**

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Manager Dashboard

Organize Meeting   **View Meetings**

Manage Your Meetings

Organize a New Meeting

Meeting Name:

Meet With UI Team

Select Room:

Room1

Meeting Start Time:

26-08-2024 09:30

Meeting End Time:

26-08-2024 10:30

Book Meeting Room

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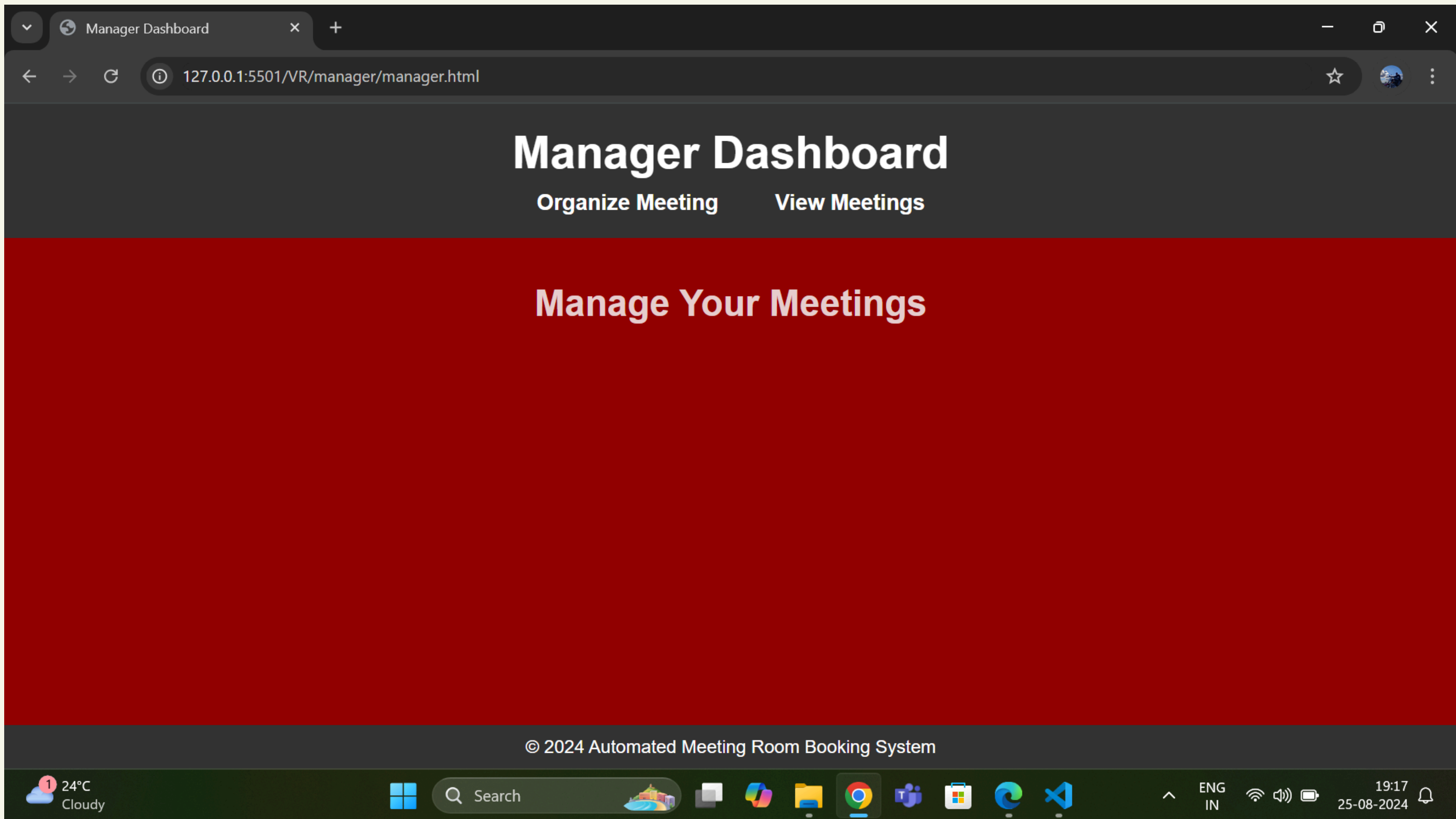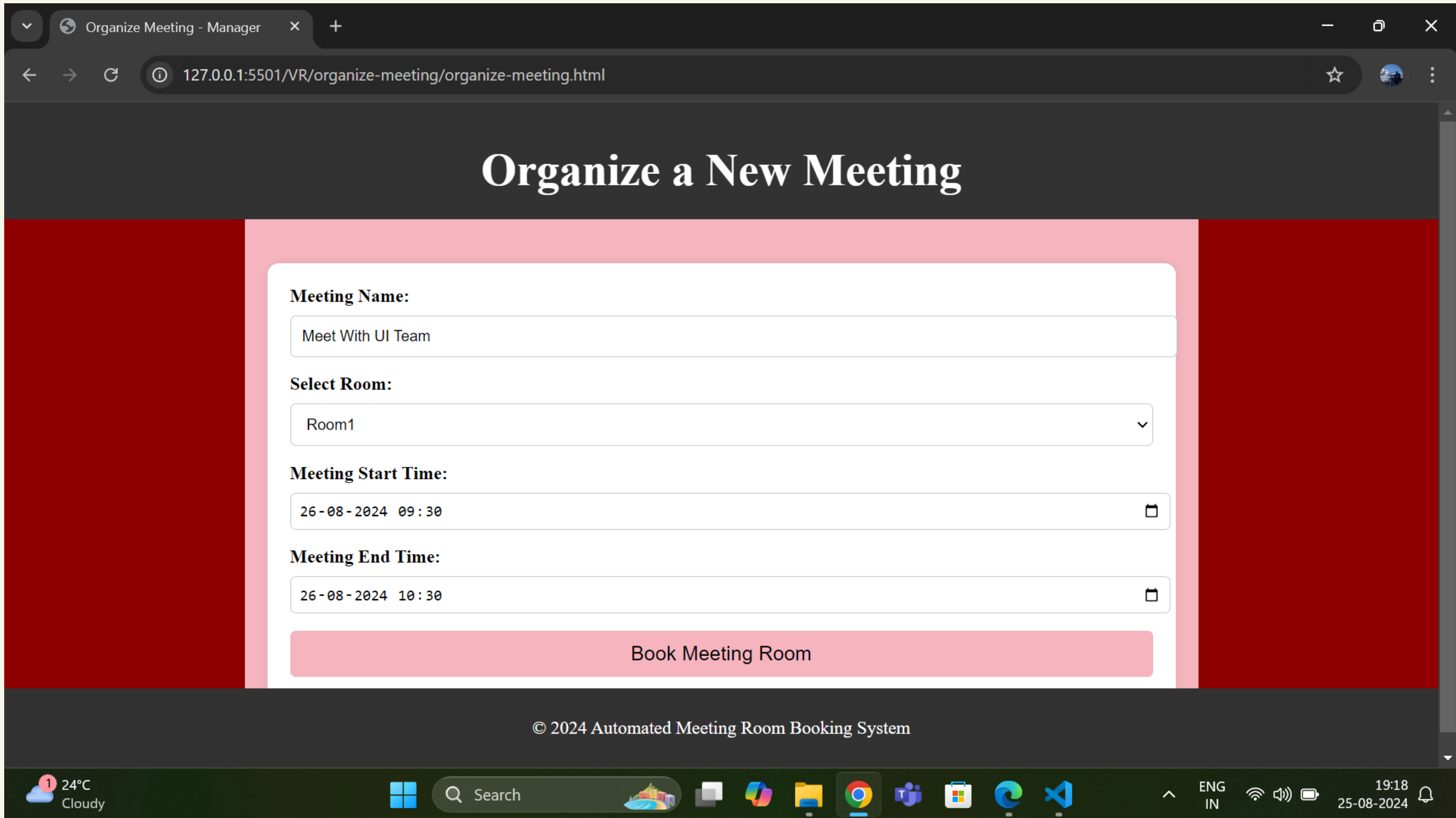
Member Dashboard

Your Scheduled Meetings

View Meetings

127.0.0.1:5501/VR/view-meetings/view-meetings.html

Home   Room Details

Your Meetings

< Previous Week   Select Date: dd-mm-yyyy   Aug 26 - Sep 1   Next Week >

Mon	Tue	Wed	Thu	Fri	Sat	Sun
Aug 26	**Aug 27**	**Aug 28**	**Aug 29**	**Aug 30**	**Aug 31**	**Sep 1**
Meet With UI Team 09:30 AM - 10:30 AM						

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127.0.0.1:5501/VR/view-meetings/view-meetings.html

Home   Room Details

Your Meetings

| < Previous Week | Select Date: dd-mm-yyyy | Aug 19 - Aug 25 | Next Week > |

August, 2024 ↑ ↓

Su	Mo	Tu	We	Th	Fr	Sa
28	29	30	31	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	31
1	2	3	4	5	6	7

Clear   Today

| Mon | Tue | W | | Fri | Sat | Sun |

Aug 19 | **Aug 20** | **Au** | | **Aug 23** | **Aug 24** | **Aug 25**

Client Presentation
2:00 PM - 4:00 PM

Daily Standup
9:00 AM - 10:00 AM

Desig ng
3:00 PM

Team Lunch
11:00 AM - 12:00 PM

Quarterly Review
9:00 AM - 10:30 AM

Sprint Planning
11:00 AM - 12:00 PM

2:00 PM - 3:00 PM

Customer Feedback
2:00 PM - 3:00 PM

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CONCLUSION

The Automated Meeting Room Booking System was successfully implemented, streamlining the booking process and improving efficiency within our organization. By introducing role-based access, a credit management system for managers, and real-time room status updates, the project met all its objectives. The collaboration between the UI and back-end teams ensured a user-friendly interface and robust functionality, while extensive testing confirmed the system's reliability. Moving forward, we will focus on gathering user feedback, maintaining the system, and exploring opportunities for scalability to further enhance its value to the company.

THANK YOU SO MUCH