

AUTOMATED MEETING ROOM BOOKING SYSTEM

STREAMLINING THE MEETING ROOM RESERVATION PROCESS

Presentation by : WFS7 Team 4

PROJECT SCOPE

1. Objective: Automate the booking process for meeting rooms within a company.
2. Key Features:
 - 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:**


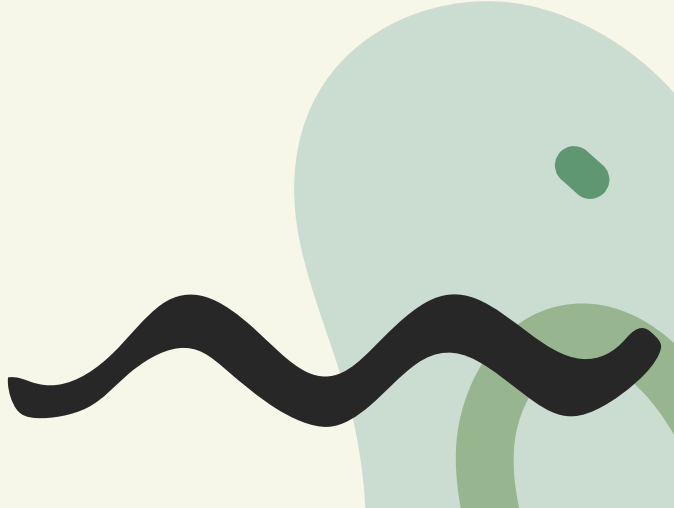
- Book meeting rooms based on needs (e.g., seating capacity, amenities).
- Use credits to book rooms.
- Credits reset to 2000 points every Monday morning.

3. **Member:**

- View meeting schedules.
 - Cannot book rooms.
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BOOKING AND CREDITS SYSTEM

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

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



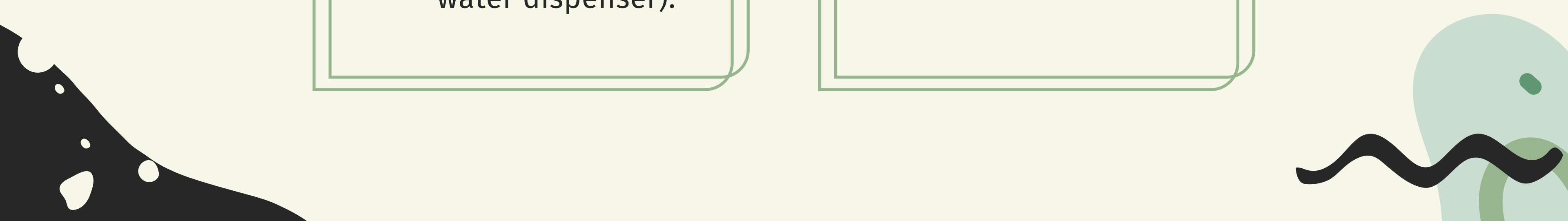
MEETING ROOM DETAILS

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:

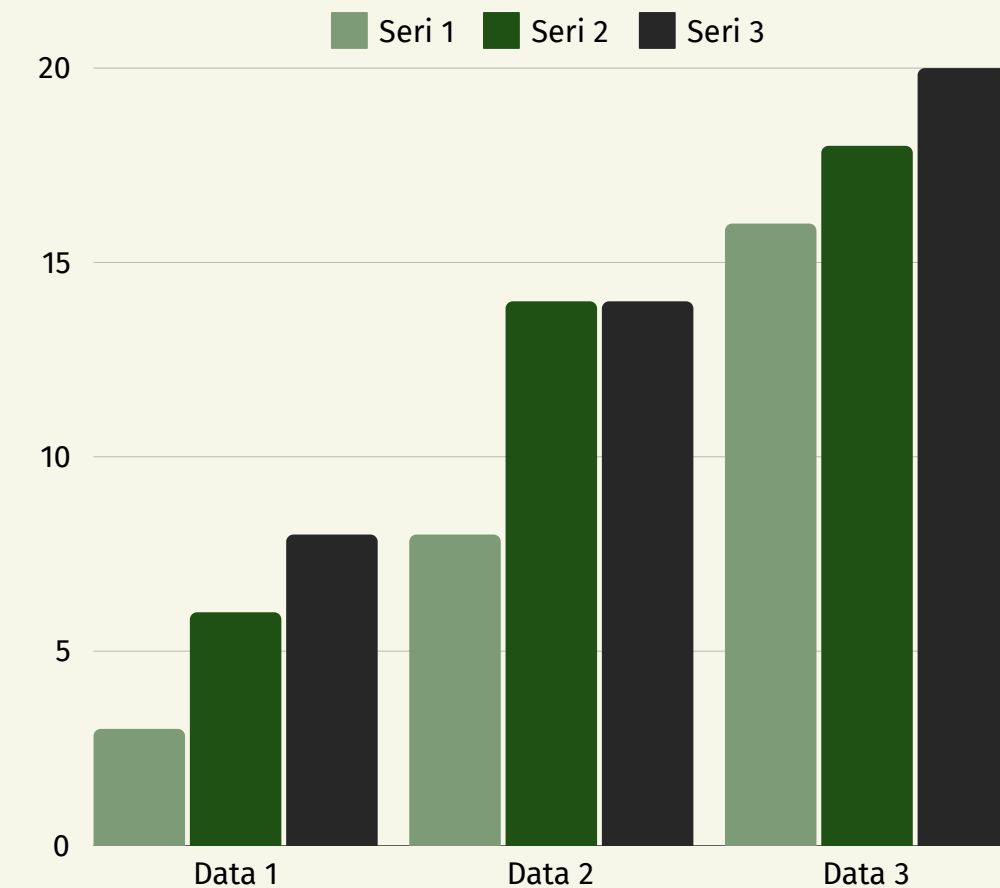
- Navigation to room details and user login.

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).
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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.



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