

Project Name:
Automated Meeting Room Booking
System

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MOB_PUNE_TEAM 1



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Idea Of Project

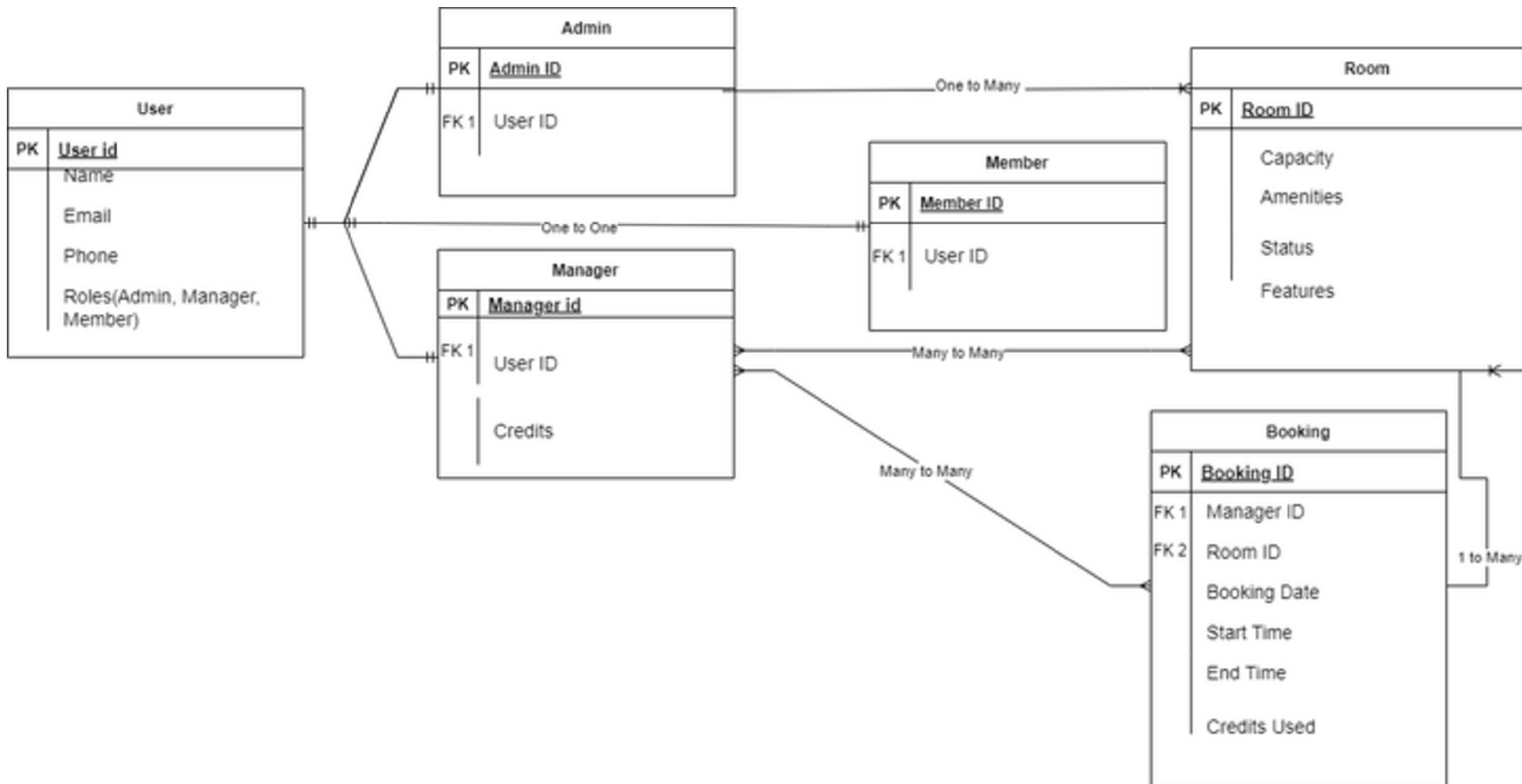
The Automated Meeting Room Booking System is designed to streamline and manage the booking of meeting rooms within a company. It ensures that employees can easily search for and book rooms based on their specific requirements, such as seating capacity and amenities. The system differentiates between three types of users: Admin, Managers, and Members, each with distinct functionalities:

- Room Management by Admins: Admins can create, configure, and manage meeting rooms, specifying seating capacities and amenities.
- Room Booking by Managers: Managers can book meeting rooms using a credit system, based on room capacity and amenities, with automatic credit resets every Monday.
- Schedule Viewing by Members: Members can view their meeting schedules but do not have the ability to book rooms.
- Automated System Processes: The system automatically calculates room booking costs based on selected amenities and resets Manager credits weekly.

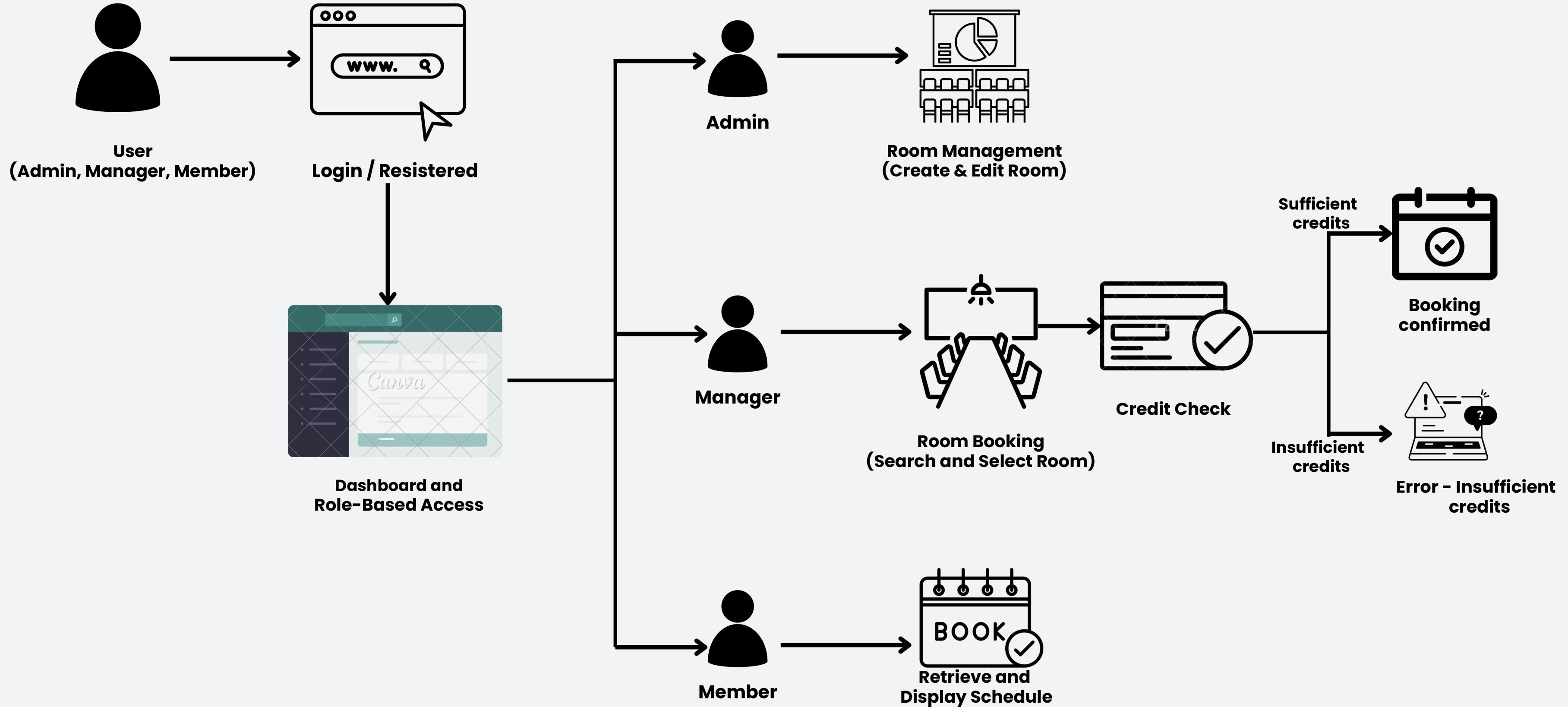
Objective

- Automate the room booking process to eliminate manual errors and inefficiencies.
- Ensure Fair Use by requiring Managers to use credits for room bookings, which promotes judicious use of resources.
- Enhance Transparency by displaying booked room statuses and meeting schedules to all relevant users.
- Facilitate Management by allowing Admins to configure and update room details easily, ensuring that rooms meet the needs of various types of meetings.
- Improve User Experience by providing a simple and intuitive interface for booking rooms, viewing schedules, and managing resources.

ER Diagram



System Architecture



Methodology

In this project, the approach centers around a role-based interaction system where Admins, Managers, and Members have specific functionalities. New users first register, while existing users login to access personalized dashboards. Admins handle the creation and modification of meeting rooms, including setting seating capacities and amenities. Managers can search for rooms and make bookings, using a credit system that automatically resets every Monday. Members are limited to viewing meeting schedules without the ability to book rooms. The system incorporates automated processes, such as credit management, and provides user feedback for actions like successful bookings or insufficient credits. User data is managed and updated via an XML file.

Technology Stack

FRONTEND

- **HTML & CSS:** For structuring and styling the user interface.
- **JavaScript :** For handling dynamic content, validations, and interactivity.

BACKEND

- **Java:** For server-side logic and processing..
- **Java Collections Framework:** For managing user data, room details, and booking information, allowing for efficient data manipulation and retrieval.

DATABASE & TESTING

- **MySQL**
- **JUnit:** For unit testing the backend logic.

Thank You....