

Movie Booking System

Overview

The **Movie Booking System** is a console-based project developed in **C++** that allows users and managers to interact with a ticketing system for booking, managing, and scheduling movies. This project demonstrates concepts such as user authentication, file handling, and interactive menus.

Features

User Functionality

1. Sign Up & Login:

- New users must sign up using their CNIC.
- Existing users can log in with their CNIC and password.
- Includes **password reset functionality** for users who forget their credentials.

2. Movie Browsing & Booking:

- View a list of dates with scheduled movies.
- Select a date to view movies featuring on that date.
- Book tickets for selected movies.

3. View Booked Movies:

- Users can view their previously booked movies.

Manager Functionality

1. Login:

- Managers log in using credentials stored in a separate text file.

2. Movie Scheduling:

- Managers can schedule new movies by adding details to the system.
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System Workflow

1. Main Menu:

- Prompts the user to identify as a "Manager" or "User."

2. User Module:

- Sign up or log in based on the CNIC.
- Password recovery option is available.
- After login, users can browse movies and book tickets.

3. Manager Module:

- Login using manager credentials.
 - Add new movies to the schedule.
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Technical Details

1. Programming Language: C++

2. File Handling: Used for storing user credentials, booked movie data, and manager details.

3. Authentication:

- User credentials and CNIC-based identification ensure secure access.
- Manager credentials stored securely in a separate text file.

4. User Experience:

- Interactive console menu for seamless navigation.
 - Error handling for invalid inputs.
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Future Improvements

- Add a GUI for better user interaction.
- Include payment gateway integration for ticket booking.
- Enhance data storage using a database instead of text files.
- Add movie reviews and ratings functionality.

