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//Program for movie ticket booking system
import java.util.Scanner;

public class MovieTicketBooking {
    private static final int ROWS = 5;
    private static final int COLUMNS = 5;
    private static char[][] seats = new char[ROWS][COLUMNS];

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        initializeSeats();

        while (true) {
            System.out.println("\nMovie Ticket Booking System");
            System.out.println("1. View Available Seats");
            System.out.println("2. Book a Seat");
            System.out.println("3. Show Booking Details");
            System.out.println("4. Exit");
            System.out.print("Enter your choice: ");
            int choice = scanner.nextInt();

            switch (choice) {
                case 1:
                    displaySeats();
                    break;
                case 2:
                    bookSeat(scanner);
                    break;
                case 3:
                    showBookingDetails();
                    break;
                case 4:
                    System.out.println("Thank you for using the Movie Ticket Booking System.");
                    scanner.close();
                    return;
                default:
                    System.out.println("Invalid choice! Please try again.");
            }
        }
    }

    // Initialize all seats as available ('A')
    private static void initializeSeats() {
        for (int i = 0; i < ROWS; i++) {
            for (int j = 0; j < COLUMNS; j++) {
                seats[i][j] = 'A'; // 'A' means Available
            }
        }
    }
}

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}

// Display available and booked seats
private static void displaySeats() {
    System.out.println("\nSeat Layout (A = Available, B = Booked):");
    for (int i = 0; i < ROWS; i++) {
        for (int j = 0; j < COLUMNS; j++) {
            System.out.print(seats[i][j] + " ");
        }
        System.out.println();
    }
}

// Allow user to book a seat
private static void bookSeat(Scanner scanner) {
    displaySeats();
    System.out.print("Enter row number (1-" + ROWS + "): ");
    int row = scanner.nextInt() - 1;
    System.out.print("Enter seat number (1-" + COLUMNS + "): ");
    int col = scanner.nextInt() - 1;

    if (row < 0 || row >= ROWS || col < 0 || col >= COLUMNS) {
        System.out.println("Invalid seat selection! Please try again.");
    } else if (seats[row][col] == 'B') {
        System.out.println("Sorry, this seat is already booked.");
    } else {
        seats[row][col] = 'B';
        System.out.println("Seat booked successfully!");
    }
}

// Display booking details
private static void showBookingDetails() {
    System.out.println("\nBooked Seats:");
    boolean hasBooking = false;

    for (int i = 0; i < ROWS; i++) {
        for (int j = 0; j < COLUMNS; j++) {
            if (seats[i][j] == 'B') {
                System.out.println("Seat: Row " + (i + 1) + " - Column " + (j + 1));
                hasBooking = true;
            }
        }
    }

    if (!hasBooking) {
        System.out.println("No seats booked yet.");
    }
}

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}
}