```
package movieTicketBookingSimulator;
import java.util.HashMap;
import java.util.Map;
import java.util.Scanner;
class Theatre {
    private String username;
    private String password;
    private Map<String, Integer> seatingArrangement; // Date and
corresponding available seats
    public Theatre(String username, String password) {
        this.username = username;
        this.password = password;
        this.seatingArrangement = new HashMap<>();
    }
    public boolean login(String enteredUsername, String enteredPassword)
{
        return username.equals(enteredUsername) &&
password.equals(enteredPassword);
    public void updatePassword(String newPassword) {
        password = newPassword;
        System.out.println("Password updated successfully!");
    public void viewSeatingArrangement(String date, String showTime) {
        int availableSeats = seatingArrangement.getOrDefault(date +
showTime, 100); // Assuming 100 seats by default
        System.out.println("Available seats on " + date + " at " +
showTime + ": " + availableSeats);
    public void bookTicket(String date, String showTime, int seats) {
        String key = date + showTime;
        int availableSeats = seatingArrangement.getOrDefault(key, 100);
        if (seats <= availableSeats) {</pre>
            seatingArrangement.put(key, availableSeats - seats);
            System.out.println("Ticket booked successfully for " + seats
+ " seats on " + date + " at " + showTime);
        } else {
            System.out.println("Insufficient seats available.");
    public void viewBookingStatus(String date, String showTime) {
        int bookedSeats = 100 - seatingArrangement.getOrDefault(date +
showTime, 100);
        System.out.println("Booked seats on " + date + " at " + showTime
 ": " + bookedSeats);
   }
public class MovieTicketBookingSimulator {
     public static void main(String[] args) {
           // TODO Auto-generated method stub
            Scanner scanner = new Scanner(System.in);
```

```
Theatre theatre = new Theatre("admin", "password"); //
Default username and password
              System.out.println("Welcome to Movie Ticket Booking
Simulator");
              while (true) {
                  System.out.print("Enter username: ");
                  String enteredUsername = scanner.nextLine();
                  System.out.print("Enter password: ");
                  String enteredPassword = scanner.nextLine();
                  if (theatre.login(enteredUsername, enteredPassword)) {
                      System.out.println("Login successful!");
                      while (true) {
                          System.out.println("\nChoose an option:");
                          System.out.println("1. Update Password\n2. View
Seating Arrangement\n3. Book Ticket\n4. View Booking Status\n5. Logout");
                          int choice = scanner.nextInt();
                          scanner.nextLine(); // Consume the newline
character
                          switch (choice) {
                          case 1:
                            System.out.print("Enter new password: ");
                            String newPassword = scanner.nextLine();
                            theatre.updatePassword(newPassword);
                            break;
                          case 2:
                            System.out.print("Enter date (DD-MM-YYYY):
");
                            String date = scanner.nextLine();
                            System.out.print("Enter show time: ");
                            String showTime = scanner.nextLine();
                            theatre.viewSeatingArrangement(date,
showTime);
                            break:
                        case 3:
                            System.out.print("Enter date (DD-MM-YYYY):
");
                            date = scanner.nextLine();
                            System.out.print("Enter show time: ");
                            showTime = scanner.nextLine();
                            System.out.print("Enter number of seats to
book: ");
                            int seats = scanner.nextInt();
                            theatre.bookTicket(date, showTime, seats);
                            break;
                        case 4:
                            System.out.print("Enter date (DD-MM-YYYY):
");
                            date = scanner.nextLine();
                            System.out.print("Enter show time: ");
                            showTime = scanner.nextLine();
```