package com.project;

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) {

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("sonashree", "sonu@123"); // 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();

theatre.viewBookingStatus(date, showTime);

break;

case 5:

System.out.println("Logging out. Goodbye!");

System.exit(0);

default:

System.out.println("Invalid choice. Please try again.");

}

}

} else {

System.out.println("Invalid username or password. Please try again.");

}

}

}

}