import random

class MovieTicketBooking:

datelist=[]

bookingDetails={}

def movie\_selection(self):

print("\nWhich movie would you like to watch?\n1. Avengers: Endgame\n2. The Lion King\n3. Joker\n4. Frozen 2\n5. Exit")

return int(input())

def theater\_selection(self, movie\_choice):

print("\nSelect a theater:\n1. AMC Theatres\n2. Regal Cinemas\n3. Cinemark Theatres\n4. Exit")

return int(input())

def showtime\_selection(self, movie\_choice, theater\_choice):

print("\nAvailable Showtimes:")

print("1. 12:00 PM\n2. 3:00 PM\n3. 6:00 PM\n4. 9:00 PM")

return int(input())

def seat\_selection(self):

print("\nSelect number of tickets:")

return int(input())

def generate\_booking\_code(self):

return random.randrange(1000, 9999)

def book\_ticket(self, movie\_choice, theater\_choice, showtime\_choice, seat\_count):

date = input("\nEnter date (MM/DD/YYYY): ")

name = input("Enter your name: ")

phone = input("Enter your phone number: ")

booking\_code = self.generate\_booking\_code()

details = [date, name, phone, movie\_choice, theater\_choice, showtime\_choice, seat\_count]

self.bookingDetails[booking\_code] = details

print("\nYour booking details:")

print("Booking Code:", booking\_code)

print("Movie:", movie\_choice)

print("Theater:", theater\_choice)

print("Showtime:", showtime\_choice)

print("Date:", date)

print("Name:", name)

print("Phone Number:", phone)

print("Number of Tickets:", seat\_count)

def cancel\_booking(self):

booking\_code = int(input("Enter booking code to cancel: "))

if booking\_code in self.bookingDetails:

del self.bookingDetails[booking\_code]

print("Booking canceled successfully.")

else:

print("Booking not found.")

def display\_bookings(self):

print("\nBooking Details:")

for code, details in self.bookingDetails.items():

print("Booking Code:", code)

print("Movie:", details[3])

print("Theater:", details[4])

print("Showtime:", details[5])

print("Date:", details[0])

print("Name:", details[1])

print("Phone Number:", details[2])

print("Number of Tickets:", details[6])

print()

movie\_booking = MovieTicketBooking()

while True:

print("\nWelcome to Movie Ticket Booking System\nPlease select an option:")

print("1. Book Ticket\n2. Cancel Booking\n3. View Bookings\n4. Exit")

choice = int(input())

if choice == 1:

movie\_choice = movie\_booking.movie\_selection()

if movie\_choice == 5:

continue

theater\_choice = movie\_booking.theater\_selection(movie\_choice)

if theater\_choice == 4:

continue

showtime\_choice = movie\_booking.showtime\_selection(movie\_choice, theater\_choice)

seat\_count = movie\_booking.seat\_selection()

movie\_booking.book\_ticket(movie\_choice, theater\_choice, showtime\_choice, seat\_count)

elif choice == 2:

movie\_booking.cancel\_booking()

elif choice == 3:

movie\_booking.display\_bookings()

elif choice == 4:

print("Thank you for using Movie Ticket Booking System. Have a great day!")

break

else:

print("Invalid choice. Please try again.")