

1 Order a hotel online before a trip.

Objects:

Traveller (who wants to book hotel)

Data: Name, Email, Address, Password, Phone, ConsumerID, Customer

Behaviors: makeSchedule, queryHotels, makeOrder, cancelOrder, getPaymentProvider,

Schedule (Traveller's plan)

Data: TravellerDate, DestinationAddress, wantedRooms

Order:

Data: rooms, date, hotel

Agent (Who have a website and may have the discounted price of hotels)

Data: Name, hotels

Behaviors: getAvailableHotels, register, login,

Hotel:

Data: Rooms, Address, Phone,

Behaviors: getAvailableRooms, reserveRoom, confirmOrder

Room:

Data: Size, Price, BedType, Facilities,

Behaviors: isAvailable, getPrice

PaymentProvider (like third-party payment company or credit card company)

Behaviors: makePayment

OrderHotelOnLine:

Traveller peter,

Schedule peterSchedule,

Agent abcTravallerAgent,
Hotel availableHotels,
Room bestRoom,
PaymentProvider wechatPayment,

// Register or Login the agent's website
If peter has not register on agent's website:
 abcTravallerAgent.register(peter)

abcTravallerAgent.login(peter)

// Peter makes his schedule and find his bestRoom
peterSchedule = peter. makeSchedule()
availableHotels = peter. queryHotels(abcTravallerAgent, peterSechule)

for hotel in availableHotels:
 rooms = hotel. getAvailableRooms()
 for thisRoom in rooms:
 if thisRoom is better than bestRoom or bestRoom is Empty:
 bestRoom = thisRoom

// Hotel reserves Room and Peter Order Room & Pay the fee.
if peter makes a decision to order the best Room:
 isReserverd = Hotel. reserveRoom (bestRoom)
 if isReserverd:
 order = peter.makeOrder(bestRoomToOrder)
 wechatPayment = peter.getPaymentProvider()
 isPaid = wechatPayment.makePayment(order)
 if isPaid:
 hotle.confirmOrder(order)