Problem 5: Design an app for booking hotels

Objects and behaviors:

Internet Service:

Data: Name, phoneNumber, isAvailabe

Behaviors: connect, reconnect

App:

Data: listOfHotels, ListOfRoom, map

Behaviors: confirmOrder

User:

Data: Name, Phone, Destination, numberOfTraveller, tripTime,

NumberOfStays

Behaviors: logInToApp, searchHotels, likeToStay, checkPrices,

checkAvailability,

reserve, cancelOrder, reviews, contactHost

Hotel:

Data: Name, location, description, hotelPhotos, licence, hostContactInfo, availability,

prices, reviews

Behaviors: acceptUserOrder, contactTraveller, prepareRooms

Map System:

Data: hotelLocation, selectedLocation

Behaviors: showNearbyHotels

Payment:

Data: paymentMethod / / credit card or pay on stay

Behaviors:

Credit Card:

Data: Name, bankName, cardNumber, address, securityCode, expiryDate

Behaviors:

Bank:

Data:

Behaviors: authorizedTransaction

Help Service:

Data: servicePhoneNumber, serviceEmail,

Behaviors: chatOnLine, Question, Answer, mediate

Sequence of invoking behaviors on objects:

bookingHotelInApp

User Xin
App Booking
InternetService Internet

if Internet.isAvailable

Xin.logInToApp -> userName, pin: connected Xin.searchHotels (Destination, numberOfTraveller, tripTime,NumberOfStays)

-> listOfHotels: Hotel

loop: listOfHotels:

if Xin.likeToStay:

Xin.checkAvailability if hotel.availibility:

break

Xin.reserve -> creditCard Booking.acceptUserOrder target_hotel = Hotel

booking.confirmOrder bank.authorizeTransaction

else:

Internet.Reconnect