

1. Order a hotel online before a trip.

Things:

Consumer:

Data: Name, Phone

Behaviors: search, order, cancel, changeTime

Trip:

Data: Time, Address

Internet

Data: Hotel Websites (Collections of websites)

Behaviors: searchForHotelWebsites

HotelWebsite:

Data: URL, Address, Rooms, BankAccount

Behaviors: search, sort, display, compare, placeTheOrder, cancel

Room:

Data: Room Size, Price, AvailableTime

Behavior:

CreditCard:

Data: Number, Name, Company, Expiry, CCV

Behavior:

CreditCardCompany

Behavior: authorizeTransaction

Sequence of invoking behaviors on Objects:

Order a hotel online before a trip:

Consumer fan;

Internet internet;

Trip trip;

HotelWebsite hotelWebsite;

Room myRoom;

Credit Card;

CreditCardCompany visa;

OrderConfirmation response;

If Internet.isAvaialbe:

fan.searchInternet -> internet, question : Collection of HotelWebsite

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pageNumber = 1;
Loop:
    if fan.findsNoPages:
        break;
    else if fan.findDesirableWebsiteInAPage:
        if website is not empty:
            hotelWebsite = website;
            break;
        else pageNumber++
    end
If hotelWebsite is not empty:
    hotelWebsite.searchForRoom -> trip.time, trip.address, priceRange,
        RoomSize : Collection of Room;
    while room.isNotAvailable:
        fan.changeTime or changeHotel
        if hotelWebsite.searchNoPages:
            fan.cannotOrder;
            break;
        end
    if room.isAvailable:
        myRoom = room;
        fan.orderRoom -> myRoom, creditCard, trip.time, trip.address,
            hotelWebsite : OrderConfirmation
        response = orderConfirmation
    else:
        fan.browseInternetAfterAWhileBack

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