Book a hotel online before trip

Things:

Internet Connection

Data: Trivago, Kayak, Hotels.com, Booking.com etc. (list of hotel booking websites)

Behavior: searchForWebsites

User

Data: Name, Address, Phone

Behavior: Search, Compare, Book, Cancel, Reschedule

Hotel Website

Data: Website name, List of hotels, Address of hotels, Rating

Behavior: Search, Compare, Sort, Book, Payment

Hotel

Data: Name, Address, Phone, Availability, Rating, Cost

Credit Card

Data: Name, Number, Limit, Expiry Date, Security Code

Credit Card Company

Data: Name

Behavior: authorizeTransaction

Payment Gateway

Data: Name

Behavior: authorizePayment

Sequence:

Internet internet
User john
HotelWebsite trivago
Hotel hyatt
CreditCard card
CreditCardCompany visa
PaymentGateway stripe
BookinigConfirmation response

If internet.available
        john.searchForWebsite → internet : collection of websites
        //john find desirable website in first page
        PageNumber = 1
        Loop
                If john.findsNoPageInWebsite
                        break
                End
                john.searchDesirableWebsite
                john.findsDesirableWebsite
                Trivago = website
                If trivago is not empty
                        break
                else
                        pageNumber = pageNumber +1
                end
        end
        trivago = website
        if trivago is not empty or trivago is != null
                trivago.searchForHotel → cost, availability, rating : collection
                                        of hotels
                hyatt = hotel
                john.bookHotel → hyatt, credit card, payment gateway,
                                address, phone, trivago : booking
                                confirmation

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                    If stripe.authorizedPayment and visa.authorizedTransaction
                        John.paymentSuccessful → payment gateway, credit
                                            card
                        Response = bookingConfirmation
                    else
                        john.paymentFailure
                    end
            else
                    john.cantBookHotel
            end
    else
            john.browseInternetLater
    end
```