

Problem: Order a hotel online before a trip

Identify Objects and Behaviors:

Things:

Consumer (Traveler):

Data: Name, ID, Phone

Behaviors: book, search, compare, return, cancel

Internet

Data : Google, Craigslist, Rent, Zillow

Behaviors : searchForHotelBookWeb

HotelBookWeb:

Data: URL, Product[] products, BankAccount

Behavior: search, sort, display, compare

Hotel:

Data: Location, Price, Area, Picture

Behaviors: receiveinformation, keepreservation

CreditCard

Data : Number, name, company, expiry, security code

Behavior :

CreditCardCompany

Behavior : authorizeTransaction

Sequence of invoking behaviors on Objects:

BookHotelOnline:

Consumer Ray,

Internet internet,

HotelBookWeb Rent,

Hotel room1

CreditCard card,

CreditCarCompany visa

ShoppingConfirmation response

If Internet.isAvailable

Ray.seachinInternet -> internet, question: Collection of HotelBookWeb

//Ray. findDesirableWebsiteInFirstPage -> Collection of Websites : website

pageNumber = 1;

```

Loop
    if Ray.findsNoPages
        break
    end

    Ray.findDesirableWebsiteInAPage->internet,    question,    page
Number : website;
    Rent = website;
    If Rent is not empty
        Break
    Else
        Pagenumber++
    End
End
Rent = website
If Rent!=null
    Rent.searchforHotel-> Price, Area, Picture: collection of Hotel
    Room1= Hotel
    Ray.bookHotel -> room1, creditcard, Rent:shoppingconfirmation
    Response= shoppingconfirmation
Else
    Ray.cantbookhotel
Else
    Ray.browseInternetAfterAWhileBack

```