Order a hotel online before a trip

Identify Objects and Behaviors:

Thing(Object)/Entity

Information(Data)/(State):

Services(Behaviors)/Actions

Things:

Consumer(Internet Shopper)

Data: Name, Address, Email, Phone

Behaviors: search, compare, order, return, cancel, reviews

Internet

Data: Group of Websites (Collection of Websites)

Behaviors: searchForElectronicWebsites

ElectronicWebsite

Data: URL, Hotel[]hotel, BankAccount

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

Hotel

Data: name, rate, location, room type, price,date

Behavior:

CreditCard

Data: Number, company, card holder, expiry, security code

Behavoir:

CreditCardCompany

Behavior: authorizeTransaction

Sequence of invoking behaviors on Objects:

OrderHotelOnline:

Consumer emily,

Internet internet,

ElectronicWebsite booking,

Hotel holidayInn,

CreditCard card,

CreditCardCompany visa,

OrderConfirmation response,

If Internet. isAvailable

emily.searchInInternet -> internet, question: Collectionof ElectronicWebsite

pageNumber = 1;

Loop

If emily.findsNoPages

Break

end

If emily.findDesirableHotelInAPage -> internet, question, page Number:website

booking = website;

if booking is not empty

break

Else

pageNumber = pageNumber +1

End

End

booking = website

If booking is not empty or booking!=null

booking.searchForHotel->priceRange, date，location, type, rate:Collection of Hotel

holidayInn = hotel

emily.orderHotel -> holidayInn, CreditCard, email, booking: OrderConfirmation

response = orderConfirmation

Else

emily. cantOrderHotel

End

Else

emily.browseInternetAfterAWhileBack

End