

Problem: Ordering a hotel online before a trip

Objects and Behaviors:

People

Data: Name, Phone, Check_in_Date, Check_out_Date

Behavior: openBrowser, findSatisfied, choice, placeAnOrder,

Website

Data: URL

Behavior: searchForQuestion, receiptRequest

HotelWebsite

Data: URL, Hotel[] hotels, BankAccount

Behavior: searchbyType, orderNumber, cancelOrder

Hotel

Data: Name, Location, Price, Room_Type, Check_in_Date, Check_out_Date, BankAccount

Behavior:

PayWebsite

Data: URL, HotelWebsite

Behavior:

Payment

Data: CardPay, ThirdPay etc (Collection of Payment)

Behavior: sendRequest

CardPay

Data: Name, Expiry, CardNumber, SecurityCode

Behavior:

ThirdPay

Data: Username, Password

Behavior:

PaymentCompany

Data:

Behavior: verifyInfo, authorityTransaction, rejectRequest

Sequence of Flow - Invoke Objects with Behaviors

OrderingHotelOnline:

People Yue

Website web, web1

HotelWebsite web2

Hotel hotel

PayWebsite pay

Payment payment

PaymentCompany Company

Yue.openBrowser-> send requestion to web

If web is not equal to Yue.findSatisfied

 web=Yue.findSatisfied

 End

Else

 web=web1

 End

If web is not empty:

 web.searchForQuestion->Collection of HotelWebsite

 If web.searchForQuestion is not empty

 Loop

 Yue.choice-> requestion to web2

 web2.searchbyType->Collection of Hotels

 Yue.choice-> requestion to web2

 Yue.placeAnOrder-> requestion to pay

 Loop

 pay.choicePayment-> requestion to payment

 Yue.choice-> requestion to payment

 payment.sendRequest-> requestion to company

company.verifyInfo

 If verifyInfo is True

 company.authorityTransaction

 End

 Else

 company.rejectRequest

 End

 If web2.OrderNumber is not equal to 0

 End

End

End