Problem: Order a hotel online before a trip

Objects:

Internet:

Data: Expedia.com, Booking.com

Behaviors: searchForWebsites()

User:

Data: Name, ContactNumber, Address

Behaviors: search(), book(), compare(), cancel()

HotelWebsite:

Data: WebsiteName, ListOfHotels, AddressOfHotel, NumberOfDaysOfStay, Rating, Review

Behaviors: book(), pay(), cancle()

Hotel:

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

Behaviors: confirmBooking()

CreditCard:

Data: Name, Number, Expiry, SecurityNumber

Behaviors:

CreditCardCompany:

Data: Name

Behaviors: authorizeTransaction()

PaymentGateway:

Data:

Behaviors: authorizeTransaction()

Sequence of invoking behaviors on objects:

Internet spectrum;

User mihir;

HotelWebsite expedia;

Hotel sheratonGrand;

CreditCard card;

CreditCardCompany visa;

PaymentGateway magneticStripe;

BookingConfirmation response;

If internet.available

mihir.searchForWebsite() 🡪 collectionOfWebsites

if mihir.findsDesirableWebsiteInFirstPage

pageNumber = 1;

else

Loop

if mihir.findsNoPageInWebsite

break;

end

mihir.searchDesirableWebsite

mihir.findsDesirableWebsite

Expedia = website;

if Expedia.isNotEmpty

break;

else;

pageNumber = pageNumber + 1;

end

end

Expedia = website

if Expedia.isNotEmpty || Expedia != null

Expedia.searchForHotel 🡪 cost, availability, rating : collection of hotels

sharatonGrand = hotel;

mihir.bookHotel 🡪 sharatonGrand, CreditCard, PaymentGateway, Address, ContactNumber, Expedia : confirmation

if stripe.authorizePayment && visa.authorizeTransaction

mihir.paymentSuccessful 🡪 PaymentGateway, CreditCard

response = bookingConfirmation

else

mihir.paymentFailure

end

else

mihir.cantBookHotel

end

else

mihir.browseInternetAfterSomeTime

end