Question 1: Buy a camera from Amazon.com

Objects and Behaviors

Customer Data: name, creditCard, address, phoneNumber

Behaviors: login, search, confirm, isCheckout, cancel

Store Data: itemCategories, customerReview

Behaviors: confirmOrder, cancelOrder

Item Data: name, price, specifications

Order Data: orderNumber, orderDate, shippingAddress, billingAddress

Behaviors: cancelOrder, changeAddress, confirmReceived, return

Payment Data: name, cardNumber

Behaviors: makePayment

Internet Data: userName, password, emailAddress

Behaviors: isConnected, loginToAmazon, authorize

Sequence of Flow - Invoke Objects with Behaviors

Customer Jiali

Internet Service Amazon.com

```
Jiali.loginToAmazon -> Amazon: authorize
```

if authorize if true

Jiali.isConnected

Jiali. search -> itemCategories: cameras found

Jail. search -> item: Sony 6000 found

if item is available

Jiali.confirm -> item ready to make a payment

else

end

if Jiali.isCheckout

Jiali.makePayment -> order placed

end

else

cantLoginToAmazon

Question 2: Design a platform for buying tickets of local events

Objects and Behaviors

Customer Data: userName, phoneNumber, creditCard

Behaviors: search, confirm, Cancel

Event Data: categories, location, price, time

Behaviors: confirmOrder, cancelOrder

Item Data: name, price, specifications

Order Data: orderNumber

Behaviors: cancelOrder, changeEvent

Payment Data: name, cardNumber

Behaviors: makePayment

Internet Data: userName, password, emailAddress, listOfEvent

Behaviors: isConnected, authorize, login

Sequence of Flow - Invoke Objects with Behaviors

```
Customer Jiali
```

Internet Service bookingEvent

```
Jiali.login -> bookingEvent: authorize
```

if authorize if true

Jiali.isConnected

Jiali. search -> categories: event found

Jail. search -> time: time available

if time is available

Jiali.confirm -> event: ready to make an reservation

else

end

if the event is reserved

Jiali.makePayment -> order placed

Question 3: Design an app to book a doctor's appointment using your medical insurance provider

Objects and Behaviors

Customer Data: name, age, gender, phoneNumber, insuranceCard

Behaviors: search, confirm, Cancel

Doctor Data: doctorName, clinicLocation, price, time

Behaviors: confirmReservation

Order Data: orderNumber

Behaviors: cancelOrder, changeTime

Payment Data: name, cardNumber

Behaviors: makePayment

App Data: classificationOfDiseases, listOfDoctor, comment

Behaviors: search

Internet Data: userName, password, emailAddress

Behaviors: loginToApp, authorize, isConnected

Sequence of Flow - Invoke Objects with Behaviors

Customer client

App Evergreen

clinet.loginToApp -> Evergreen: authorize

if authorize if true

clinet.isConnected

client. search -> classification: found client.search -> doctorName: found client. search -> time: time available

if time is available

client.confirm -> ready to make an appointment

if the appointment is confirmed

clinet.makePayment -> order placed

Question 4: Design a job searching platform

Objects and Behaviors

User Data: name, phoneNumber, degree

Behaviors: search, apply

job Data: position, location, salary, workTime

website Data: company, jobTitle,

Behaviors: search, findJob, postJob

Internet Data: userName, password, emailAddress

Behaviors: loginToMyIndeed, authorize, isConnected

Sequence of Flow - Invoke Objects with Behaviors

```
User student
Website MyIndeed
```

```
student.loginToMyIndeed -> userName, password : connected if connected is true

Loop

student.search -> company: found
student.search -> jobTitle: found
student. findJob -> position: found
student. search -> workTime: available
student.apply
end
```

Question 5: Order pizza from Dominos

Objects and Behaviors

Customer Data: name, phoneNumber, address

Behaviors: search

Item Data: type, size, price, flavor, spicy

Order Data: orderNumber, date, quantity, trackingNumber

Behaviors: viewOrder, confirmOrder, cancelOrder, trackOrder

Payment Data: name, creditCard

Behavior: makePayment

Delivery Data: name, phoneNumber, orderNumber

Behaviors: contact, deliveryFood

Internet Data: userName, password, emailAddress

Behaviors: loginToDominos, authorize, isConnected

Sequence of Flow - Invoke Objects with Behaviors

Customer Jiali

Website Dominos

Jiali.loginToDominos -> userName, password : connected

if connected is true

Jiali.search -> type: available Jiali.choose -> item: selected

if confirmOrder is true

Jiali.makePayment -> orderNumber: available

else

end

if Delivery is available

Jiali.trackOrder -> trackingNumber: can be tracked

delivery.deliveryFood -> address: delivered