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// 1. Buy a Camera from Amazon.com (assume buyer has shipping address and creditcard info available in amazon)

Objects: buyer

Behavior: loginToAmazon, searchProduct, selectProduct, addtoCart, checkout, selectShippingAddress, selectPmtMethod, selectDeliveryMethod, placeOrder, checkLoginInfo, changeSearchCriteria

Data: userid, password, camera, address, creditCardNumber, deliveryMethod

Objects: amazon

Behavior: exhibitProducts, exhibitShippingAddress, confirmShippingAddress, exhibitPmtMethod, confirmPmtMethod, exhibitDeliveryMethod, confirmDeliveryMethod, orderConfirmation

Data: products, listofShippingAddress, listofCreditCard, listofDeliveryMethod

Boolean authenticated = buyer.loginToAmazon(userid, password)

Loop

if authenticated is valid

 productSearch = buy.searchProduct(cameras)

 products = amazon.exhibitProducts(productSearch)

Loop

if products is not None

 productChoose = buyer.selectProduct(products)

if productChoose is not None

 buyer.addtoCart()

 buyer.checkout()

 listofShippingAddress = amazon.exhibitShippingAddress()

 address = buyer.selectShippingAddress(listofShippingAddress)

 amazon.confirmShippingAddress(address)

 listofCreditCard = amazon.exhibitPmtMethod()

 creditCardNumber = buyer.selectPmtMethod(listofCreditCard)

 amazon.cnofirmPmtMethod(creditCardNumber)

 listofDeliveryMethod = amazon.exbihitDeliveryMethod()

 deliveryMethod = buyer.selectDeliveryMethod(listofDeliveryMethod)

 amazon.confirmDeliveryMethod(deliveryMethod)

 buyer.placeOrder()

 amazon.orderConfirmation()

END

else

END

```

else
    buyer.changeSearchCriteria()

else
    buyer.checkLoginInfo()

```

// 2. Design a platform for buying tickets of local events.

Objects: platform

Data: buyerLoginInfo, eventOrganizerLoginInfo, events, locations, dates, tickets

Behavior: Behavior of platform is in buyer and event organizers Behavior flow

Objects: Buyer

Data: username, password, location, eventticketWanttoBuy, name, phoneNumber, creditCardNumber, zipcode

Behavior: see below

```

loginPlatform(){
    boolean signin = platform.login(username, password)
    if signin is valid
        platform.matchLocation(location)
        System.out.print(localEventsList)
    else
        System.out.print(errorMessage)
}

```

```

searchEvent(){
    platform.searchEvent(event)
    if event is not None
        System.out.print(eventInfo)
    else
        System.out.print("No such event")
}

```

```

selectTicket(){
    if tickets are available
        System.out.print(ticketChoices)
    else
        System.out.print("Sold out")
}

```

```

checkout(){
    System.out.print(pmtRequest)
}

```

```
fillPMT(name, phoneNumber, creditcardNumber, zipcode)
```

```
placeOrder(){  
    Boolean authorize = platform.connectCreditCardCarrier()  
    if authorize is True  
        System.out.print(orderConfirmation)  
    else  
        System.out.print(errorMessage)  
}
```

Objects: Local Events Organizers

Data: username, password, eventsDetails, ticketPrice, ticketAmt

Behavior: see below

```
loginPlatform(){  
    boolean signin = platform.login(username, password)  
    if signin is valid  
        platform.matchLocation(location)  
        System.out.print(localEventsList)  
    else  
        System.out.print(errorMessage)  
}  
  
createEvent(){  
    platform.requestEventDetails()  
    fillinEventDetails(eventTitle, location, dateRange, eventImage)  
}  
  
createTickets(){  
    platform.provideTicketType()  
    fillinTicketType(ticketName, priceRange, amt, currency, refundChoice)  
}  
  
confirmEventCreation(){  
    boolean confirmation = platform.confirmEventCreation()  
    if confirmation is valid  
        System.out.print("Success!")  
    else  
        System.out.print(errorMessage)  
}
```

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

Objects: app

Data: userLoginInfo, medicalInsuranceProvidersList,categoryList

Behavior: Behavior of app is in patient booking Behavior

Objects: medicalInsuranceProviders

Data:doctorsName, doctorAvailability, doctorLocation,doctorCategory

Behavior: Behavior of app is in patient booking Behavior

Objects: patient

Data: username, password, medicalInsuranceProvider, insuranceID, name, ssn,
address, symptom, dateAvailable

Behavior: see below

```
loginApp(){
    boolean signin = app.login(username, password)
    if signin is valid
        System.out.print(medicalInsuranceProviderList)
    else
        System.out.print(errorMessage)
}

selectMedicalInsuranceProvider(){
    app.requestMedicalInfo()
    fillinMedicalInfo(insuranceID, name, ssn, address)
    Boolean authorize = app.connectMedicalInsuranceProder()
    if authorize is True
        System.out.print(categoryChoice)
        category = selectCategory(symptom)
        medicalInsuranceProviders.searchDoctors(address, category)
        System.out.print(doctorsList)
    else
        System.out.print(errorMessage)
}

Loop doctor in doctorslist
selectDoctor(){
    selectAvailableTime()
    Boolean availbility = medicalInsuranceProviders.confirmAvailability()
    if availability is True
        System.out.print(availbility)
    else:
        System.out.print("NotAvailable")
}

END

confirmAppoitment(){
    medicalInsuranceProviders.sendAppointmenttoDoctor()
```

```
        medicalInsuranceProviders.confirmAppointment()  
        System.out.print(confirmation)  
    }  
  
-----  
-----
```

// 4. Design a job searching platform

Objects: platform

Data: employers, applicantsProfile, jobPositons

Behavior: Behavior of app is in applicant and employers Behavior

Objects: applicant

Data: username, password, name, contactInfo, degree, workExperience, skillset,
resume, availability, employmentType, locations

Behavior: see below

```
loginPlatform(){  
    boolean signin = platform.login(username, password)  
    if signin is valid  
        platform.requestBasicInfo  
    else  
        System.out.print(errorMessage)  
}  
  
fillinBasicInfo(name, contactInfo, degree, workExperience, skillset){  
    platform.requestResume()  
    uploadResume(resume)  
    Boolean resumeConfirmation = platform.confirmResumeUpload()  
    if resumeConfirmation is True  
        profiles = platform.createProfile()  
        positionList = platform.matchEmployers(degree, workExperience,  
skillset)  
        System.out.print(positionList)  
    else  
        System.out.print(errorMessage)  
}  
  
searchJobs(){  
    platform.provideSearchCriteria()  
    criteria = filterCriteria(jobFunction, employmentType, Location)  
    positionsList = platform.matchEmployers(profiles, criteria)  
    if positionsList is not None  
        System.out.print(positionsList)  
    else  
        System.out.print("No position available")  
}
```

```

applyJobs(){
    platform.sendApplicationtoEmployers()
    platform.confirmApplication
}

```

```

Objects: employers
Data: companyBasicInfo, jobFunction, jobDescription, qualifications,
employmentType,
    desiredAvailability
Behavior: see below
postJobposition(){
    platform.requestPositionInfo()
}

```

```

fillinPositionInfo(companyBasicInfo, jobFunction, jobDescription,
qualifications, employmentType, esiredAvailability)

```

```

receiveApplication(){
    platform.sendApplication()
}

```

```

// 5. Order Pizza from Dominos (assume order pizza from Domino website for
delivery pay with credit card)

```

```

Objects: pizzaLover
Behavior: openDominosWebsite, selectServiceMethod, enterDeliveryAddress,
    chooseFood,chooseSize, chooseCrust,
    chooseCheeseSauce, chooseToppings, addtoOrder,
    checkout, fillinPMTInfo, placeOrder
Data: foodWanttoEat,deliveryAddress, creditCardInfo

```

```

Objects: dominos
Behavior: exhibitServiceMethod, searchLocations,
    exhibitMenu, createOrderList,
    requestforPMTMethod, confirmOrder
Data: menu, listofServiceMethod, storelocations, listofPMTInfo

```

```

pizzaLover.openDominosWebsit()
listofServiceMethod = dominos.exhibitServiceMethod()
pizzaLover.selectServiceMethod(listofServiceMethod)
deliveryAddress = pizzaLover.enterDeliveryAddress()
confirmAddress = dominos.searchLocations(deliveryAddress)

```

```
if confirmAddress is not None:
    dominos.exhibitMenu()
    foodWanttoEat = pizzaLover.chooseFood()
    Loop choice in foodWanttoEat
        domino.exhibitMenu(choice)
        pizzaLover.chooseSize()
        pizzaLover.chooseCrust()
        pizzaLover.chooseCheeseSauce()
        pizzaLover.chooseToppings()
        pizzalover.addtoOrder()
        dominos.creatOrderList()
    END
    pizzaLover.checkout()
    dominos.requestforPMTMethod()
    pizzaLover.fillinPMTInfo(creditCardInfo)
    pizzaLover.placeOrder()
    dominos.confirmOrder()
else
    END
```