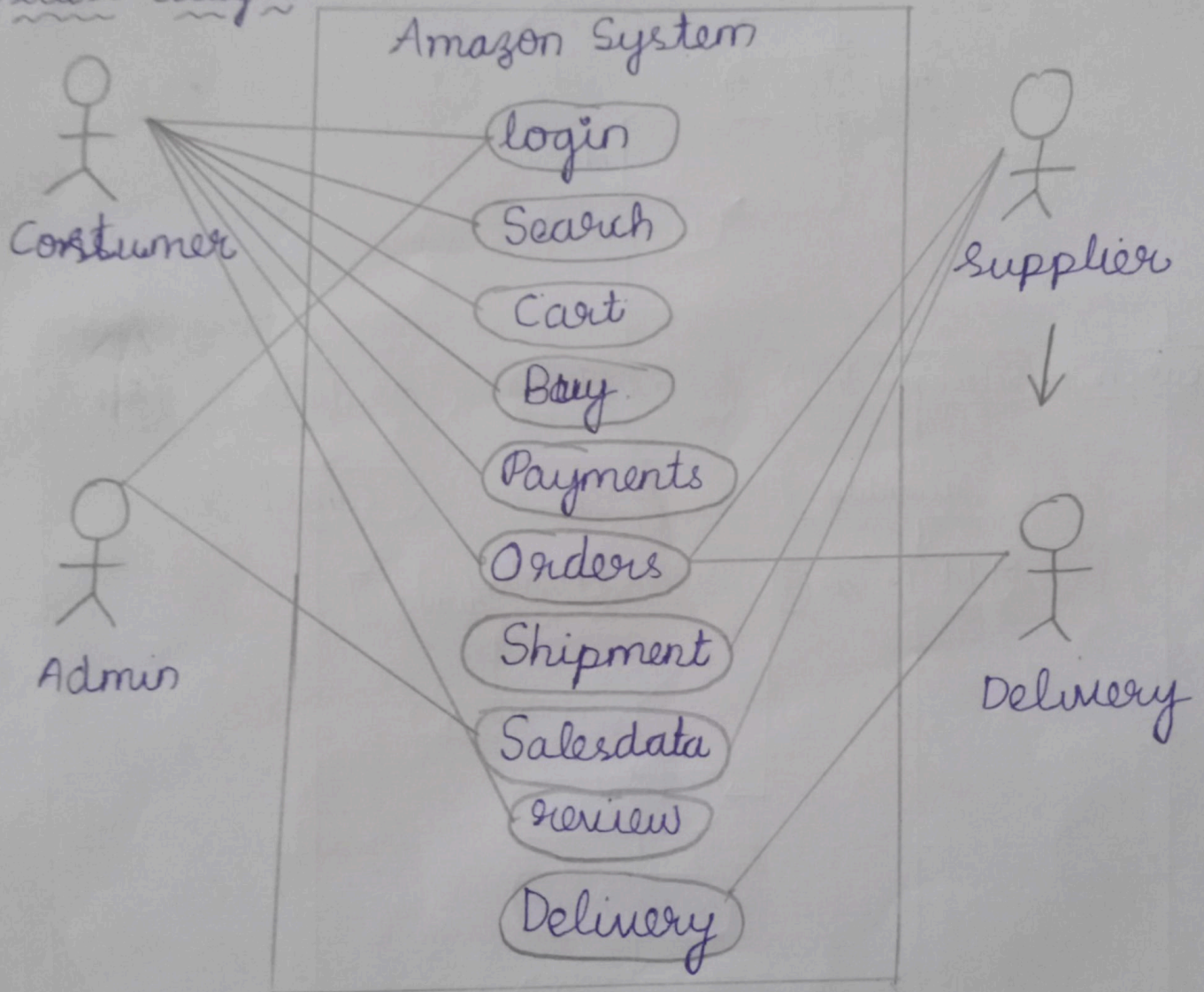# TUTORIAL-1

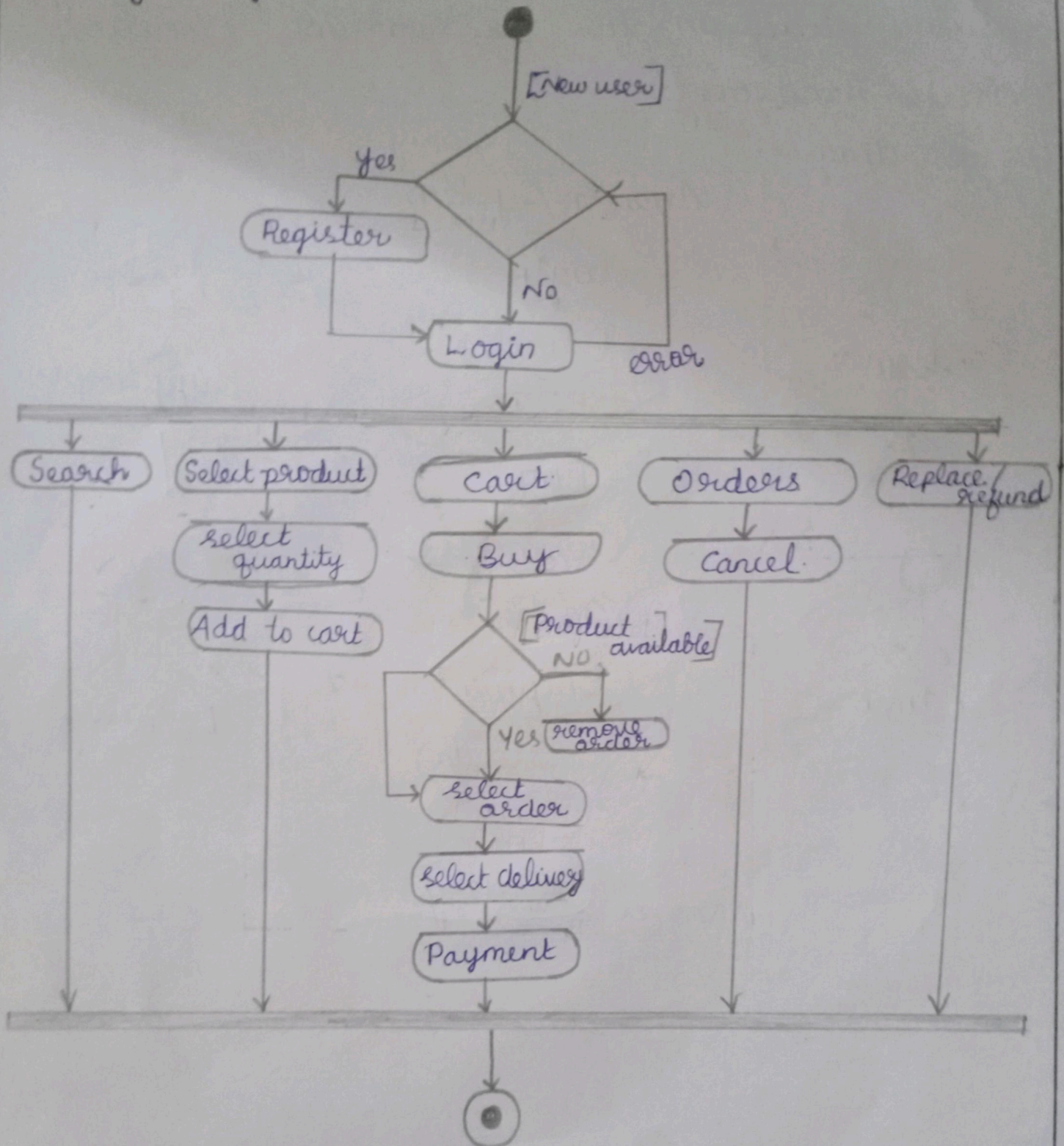**Q** Draw the usecase diagram, activity diagram and sequence diagram for the realtime executing website-Amazon.

ans Usecase diagram
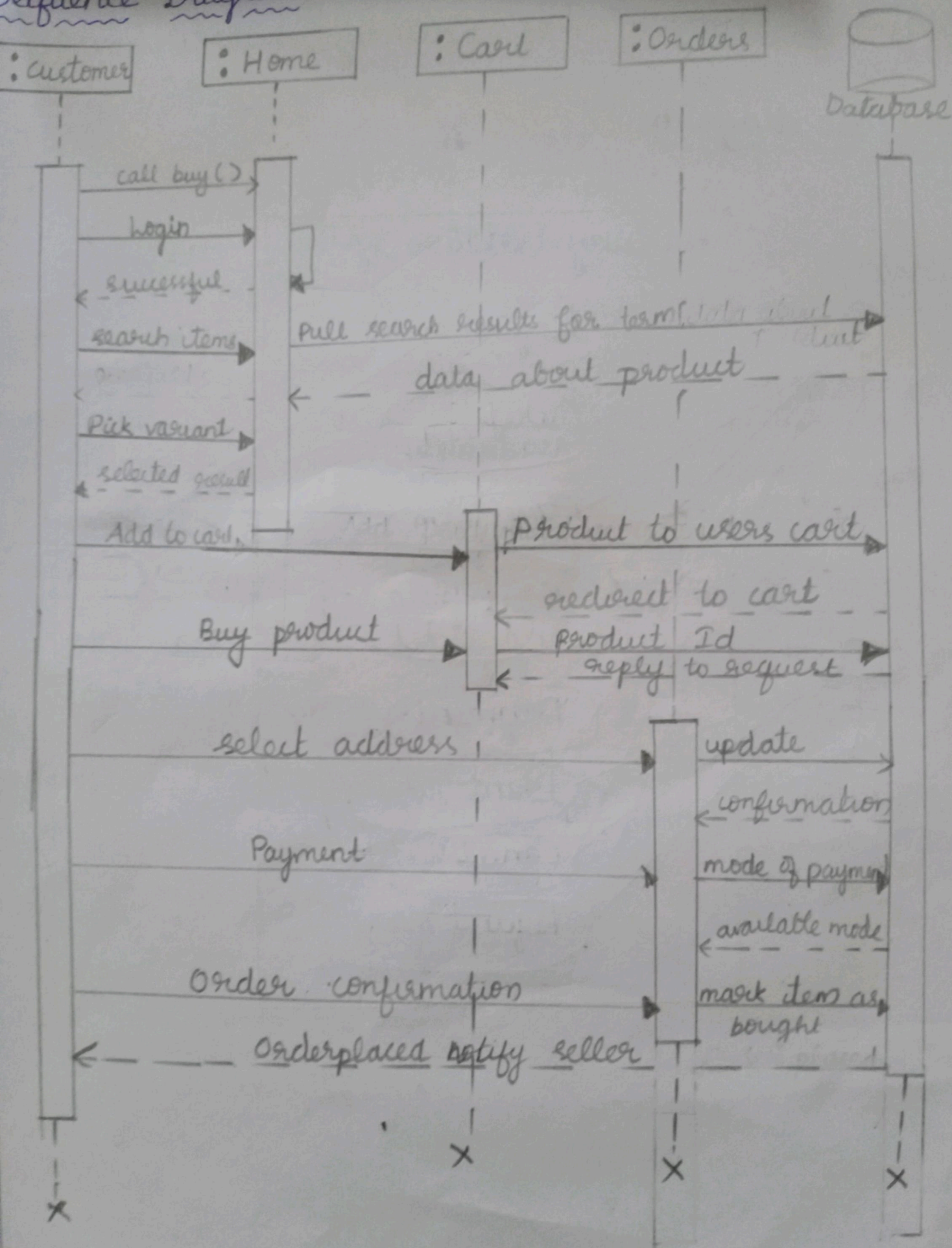

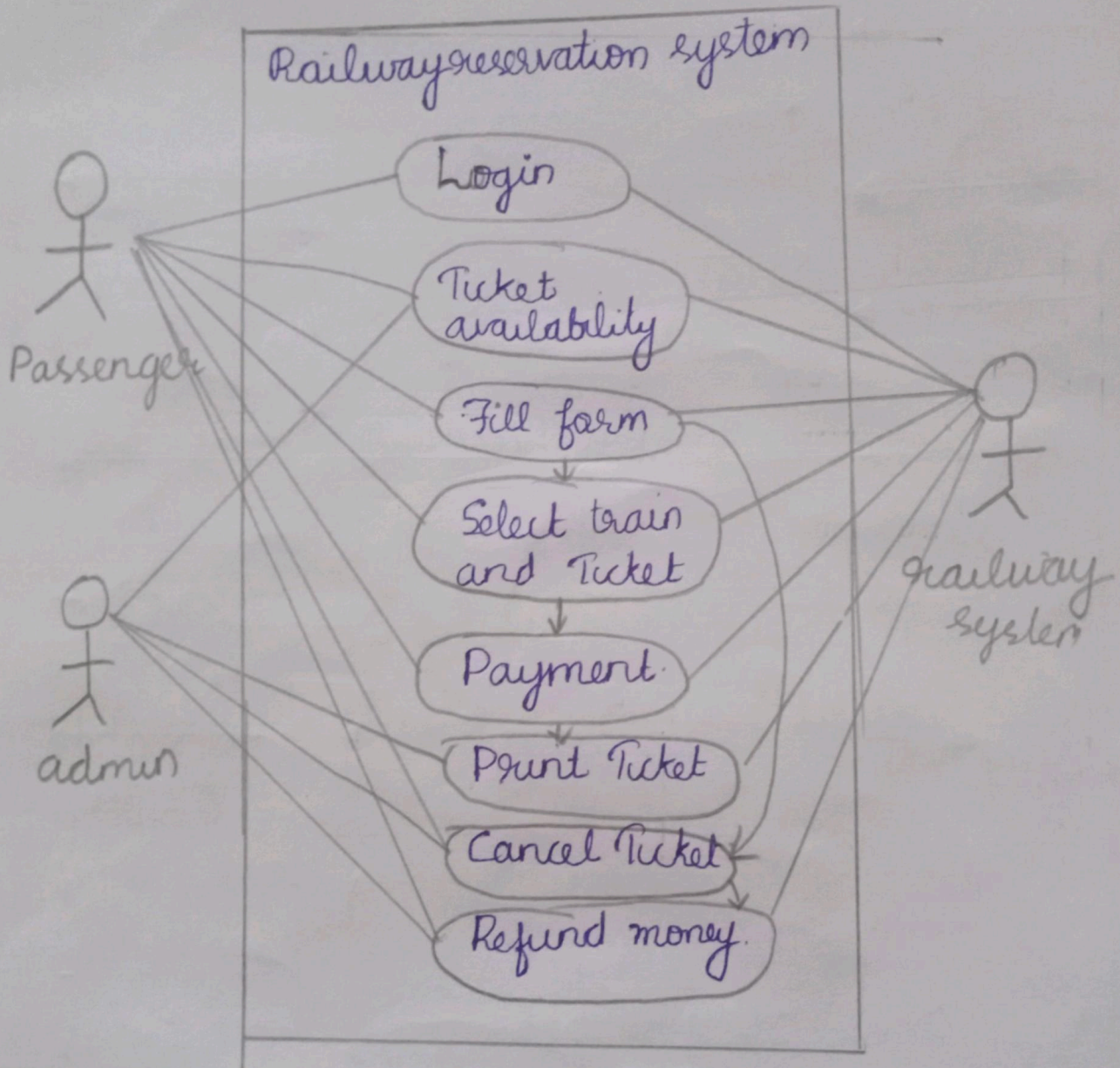Amazon System

- login
- Search
- Cart
- Buy
- Payments
- Orders
- Shipment
- Salesdata
- review
- Delivery

Costumer

Admin

Supplier

Delivery

Activity diagram


```
                              ●
                              │
                         [New user]
                              │
                              ◇
                    Yes ┌─────┴─────┐
                        │           │
                  ┌──────────┐      │
                  │ Register │      │
                  └──────────┘   No │  error
                        └──→ ┌───────┐
                             │ Login │
                             └───────┘
                                 │
   ════════════╦═══════════╦═════╬═════════╦═══════════╗════════════
         │           │           │              │              │
   ┌─────────┐ ┌──────────────┐ ┌──────┐ ┌──────────┐ ┌───────────────┐
   │ Search  │ │ Select product│ │ Cart │ │  Orders  │ │ Replace/refund│
   └─────────┘ └──────────────┘ └──────┘ └──────────┘ └───────────────┘
                      │           │           │
               ┌──────────┐   ┌──────┐   ┌────────┐
               │  select  │   │ Buy  │   │ Cancel │
               │ quantity │   └──────┘   └────────┘
               └──────────┘      │
               ┌──────────┐      ◇  [Product available]
               │Add to cart│  No  ┌──┴──┐
               └──────────┘       │     │  ┌──────────┐
                            Yes   │     └→ │  remove  │
                                  │        │  order   │
                            ┌──────────┐   └──────────┘
                            │  select  │
                            │  order   │
                            └──────────┘
                                  │
                           ┌──────────────┐
                           │select delivery│
                           └──────────────┘
                                  │
                            ┌──────────┐
                            │ Payment  │
                            └──────────┘
   ════════════╩═══════════╩═════╬═════════╩═══════════╩════════════
                                 │
                                 ◉
```

Activity diagram

Sequence Diagram

Participants: : customer | : Home | : Cart | : Orders | Database

- call buy ()
- Login
- successful
- search items
- Pull search results for term
- data about product
- Pick variant
- selected
- Add to cart → Product to users cart
- Buy product → redirect to cart
- product Id
- reply to request
- select address → update
- confirmation
- Payment → mode of payment
- available mode
- Order confirmation → mark item as bought
- Orderplaced notify seller

Q Draw Usecase diagram, Activity diagram and sequence diagram of railway reservation:

Ans Usecase diagram

Railway reservation system

- Login
- Ticket availability
- Fill form
- Select train and Ticket
- Payment
- Print Ticket
- Cancel Ticket
- Refund money.

Passenger

admin

railway system

Activity diagram

[new user]

yes

Register

NO

Login

Search Train

Select date and time

Payment

Cancel ticket

Select type of seat

generate e-ticket

refund

Fill details

sequence diagram

| :customer | :Booking | :System | :Payment | :database |

- call booking ()
- Login
- successful
- select train → select available train
- return result
- select data time → details check
- confirm details
- select type of seat → select classes
- return availability
- Payment → transaction
- Generate e-ticket → confirmation request
- retrieve p-ticket