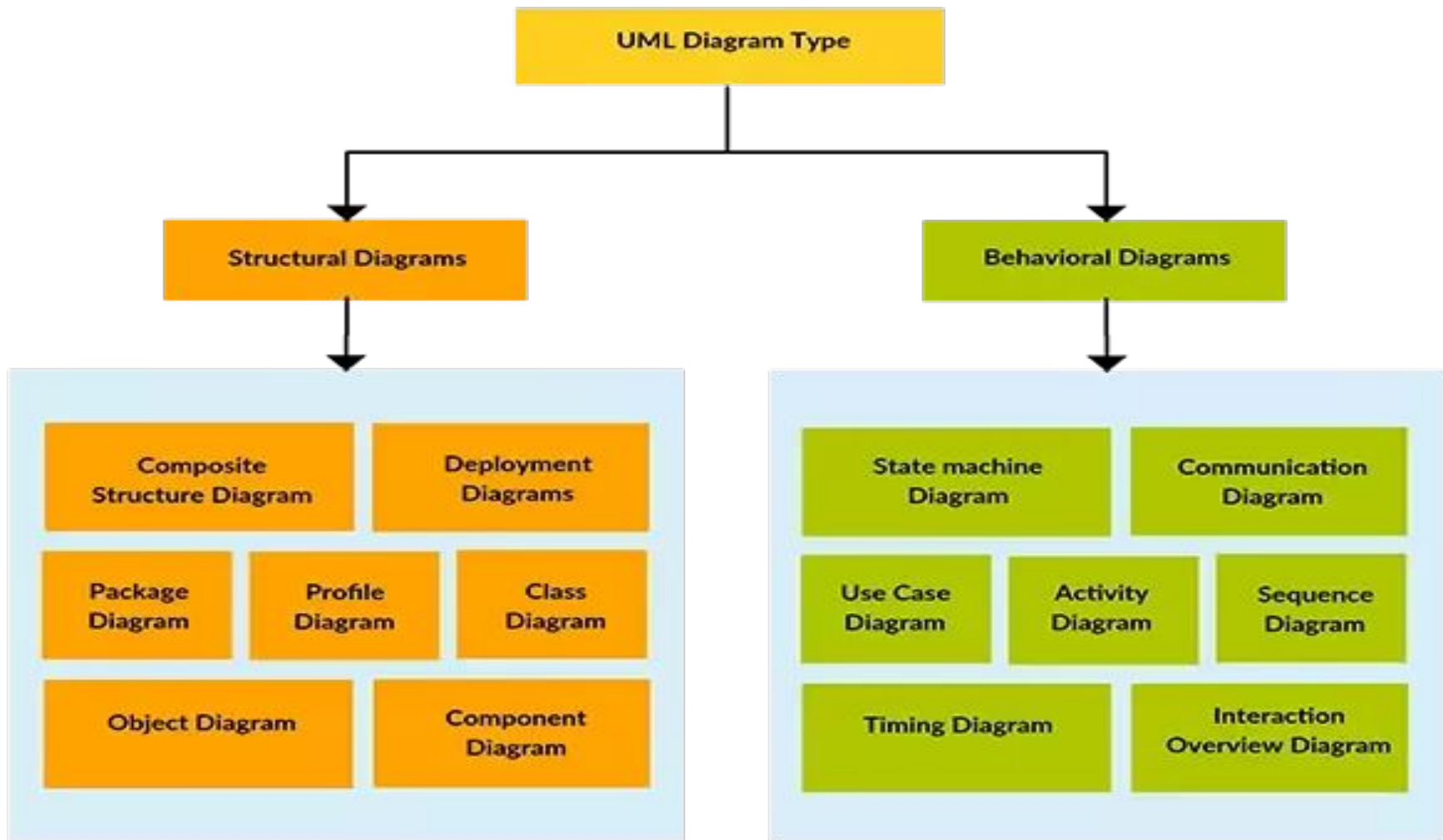
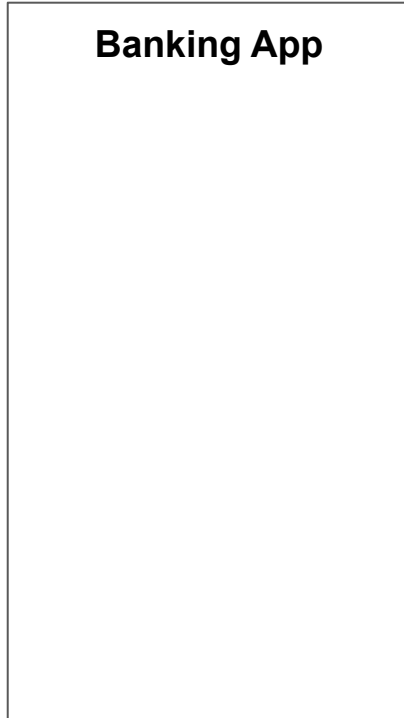


Use Case Diagram



Use Case Diagram - Component

1. **System** - website, s/w component, Business process, Application etc.



Use Case Diagram - Component

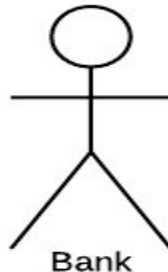
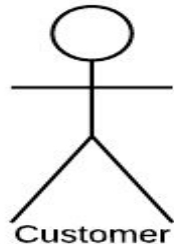
2. Actor - Person, organization, another system, an extended system.

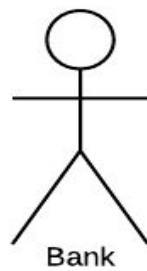
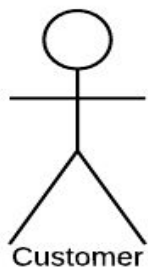
a) **Primary Actor** - Initiate the use of the system

- Left of the system

b) **Secondary Actor**- Reactionary

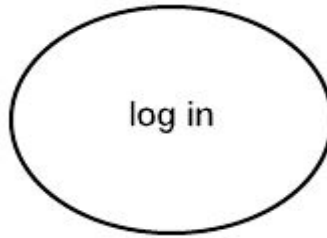
- Right of the system





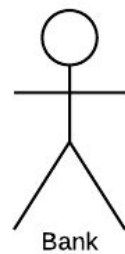
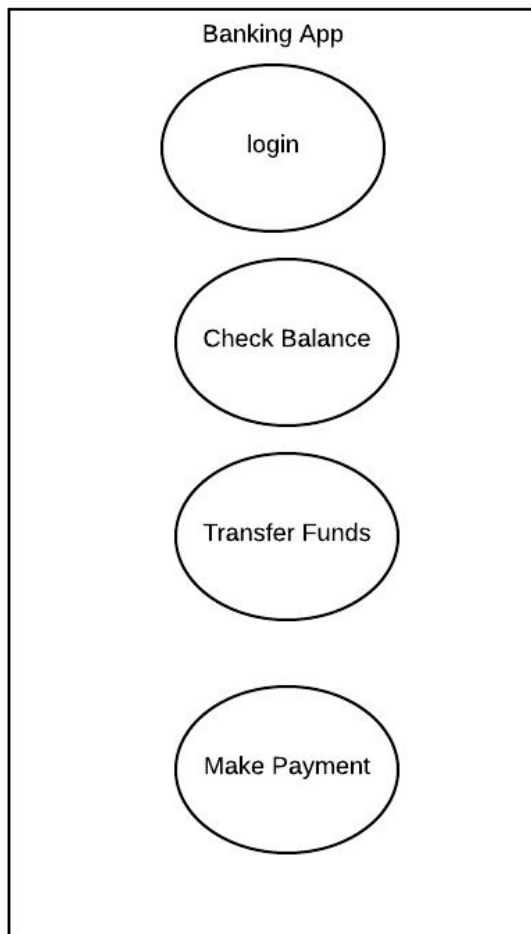
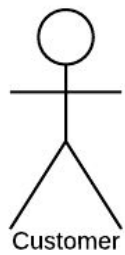
Use Case Diagram - Component

3. **Use Case** - an action that accomplishes some sort of task.



Example: Use Case Diagram for Banking App

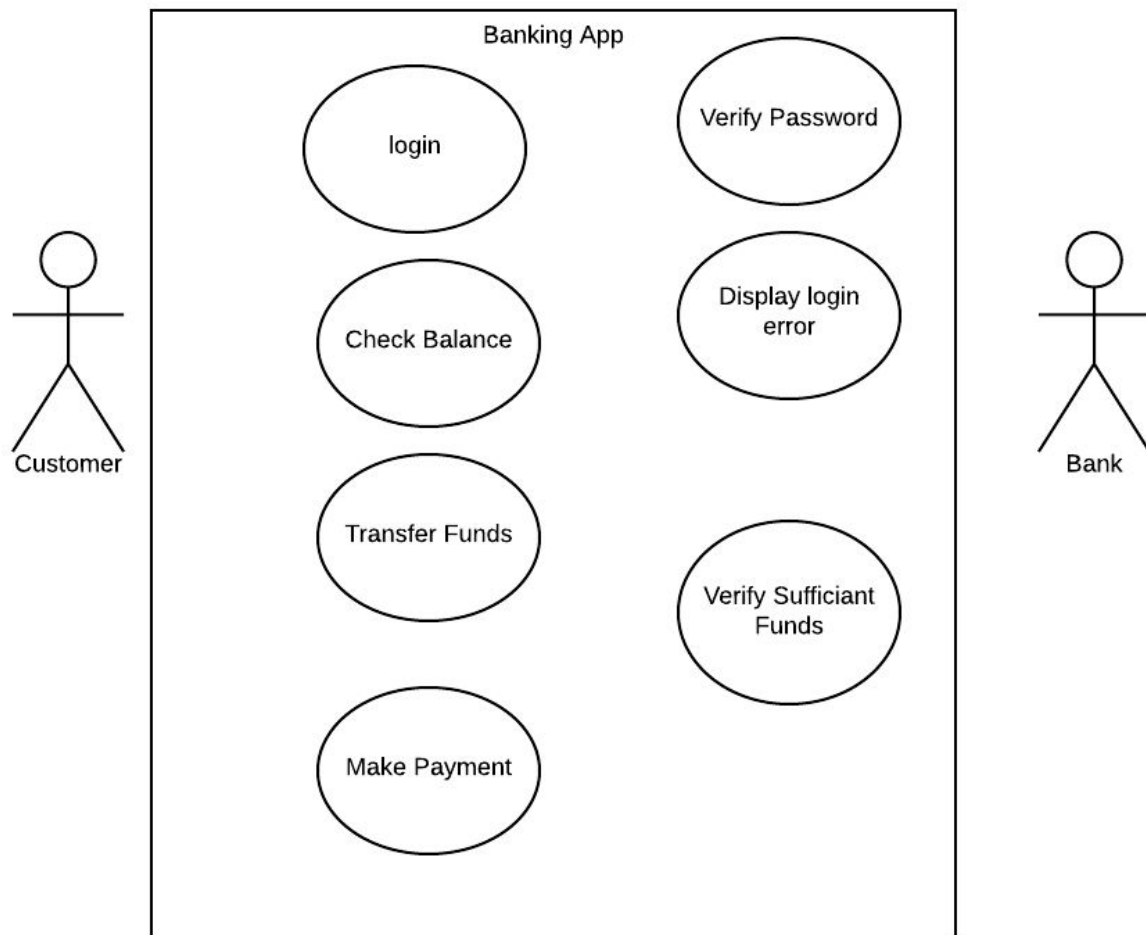
- Allow Customer to log in
- Check the Account Balance
- Transfer Fund between Accounts
- Make Payments towards bills



Use Case Diagram - Component

4. Relationships -

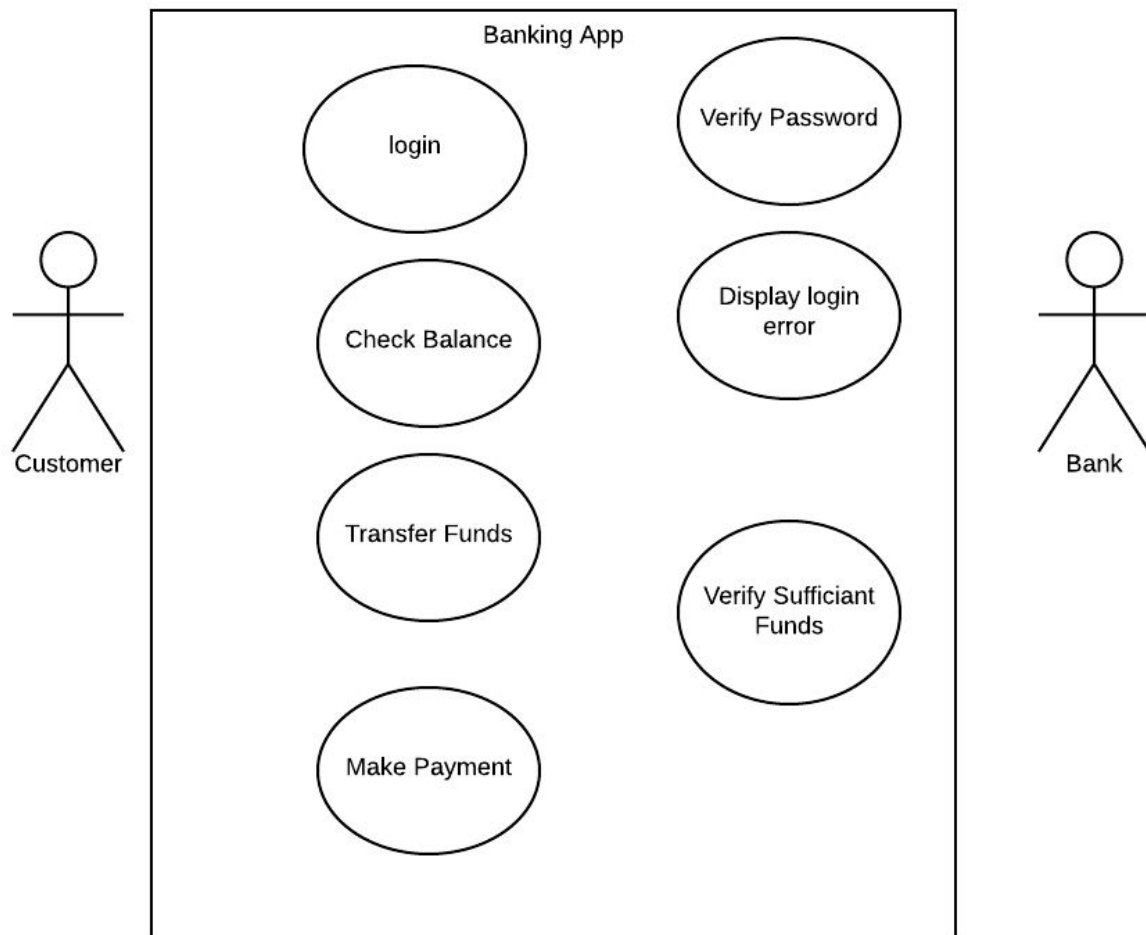
- A. Association
- B. Include
- C. Exclude
- D. Generalizations or inheritance

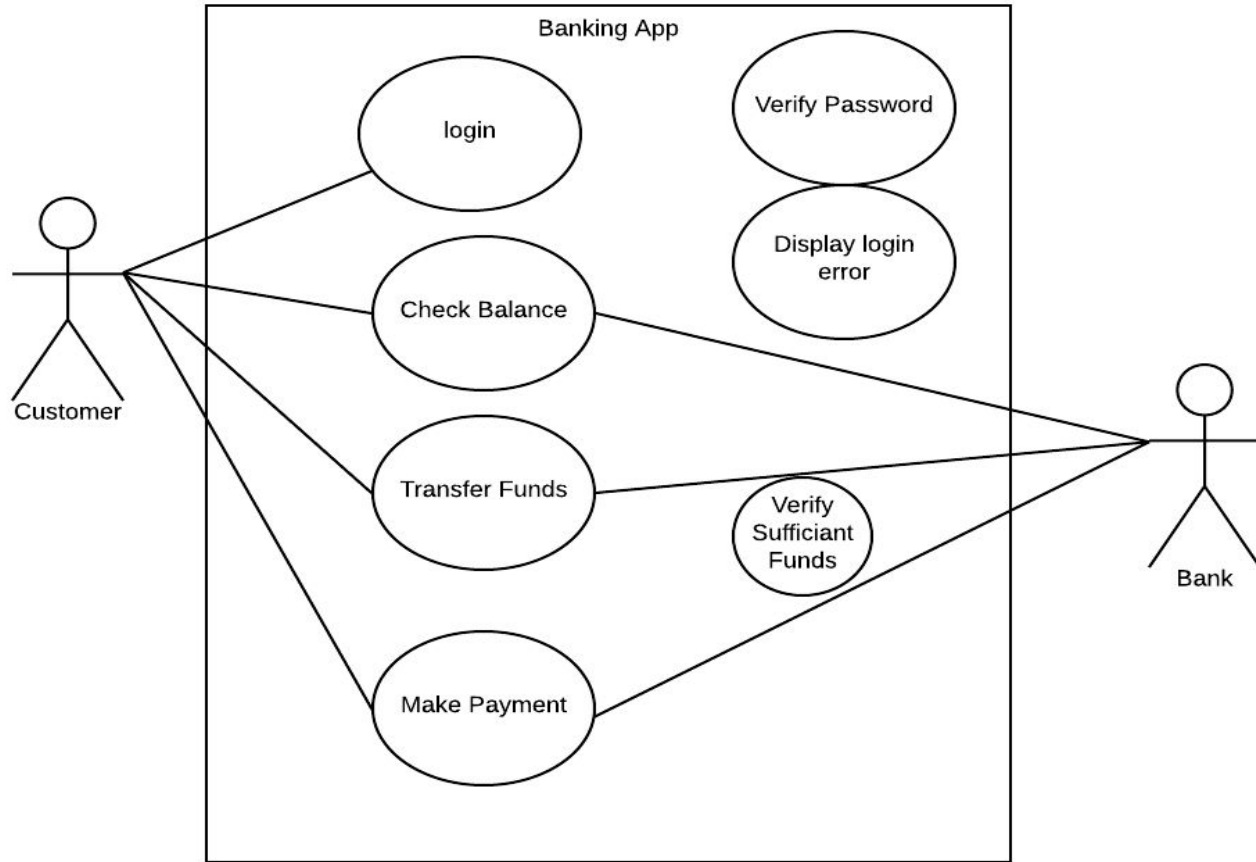


Use Case Diagram - Relationships

- a) Association - basic communications or interactions

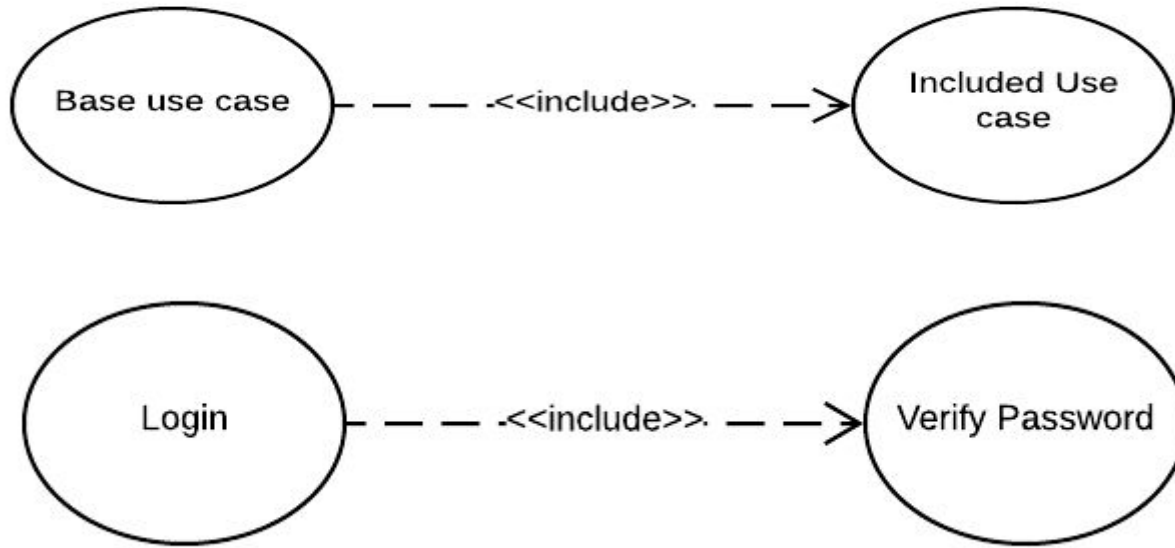


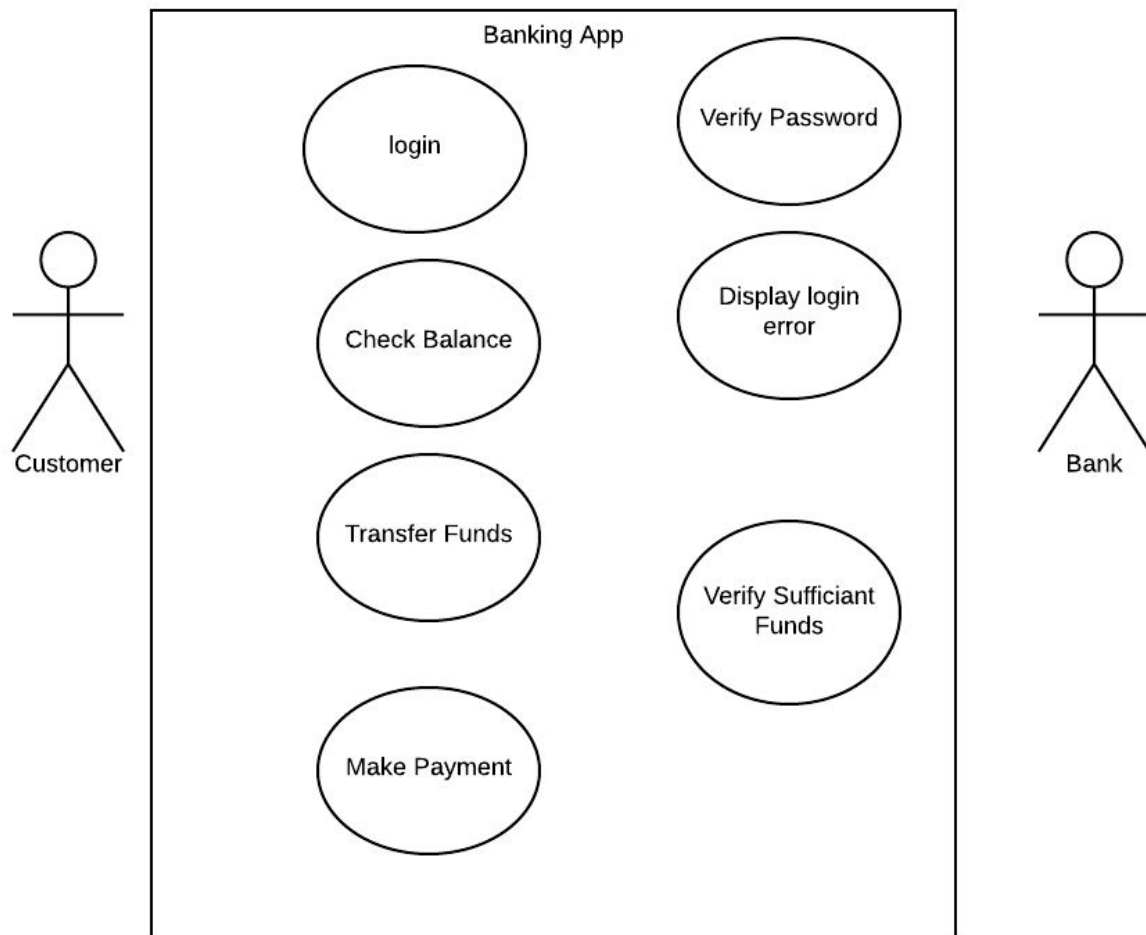


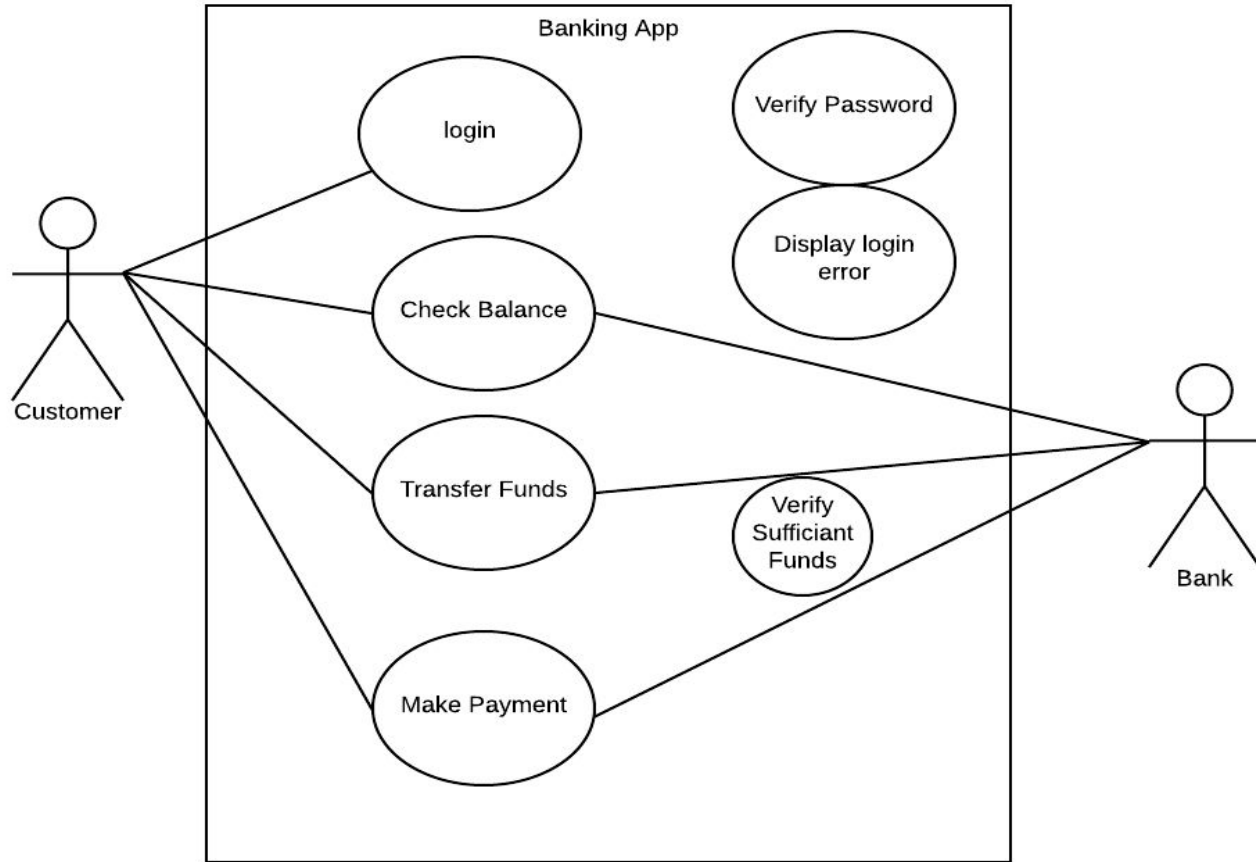


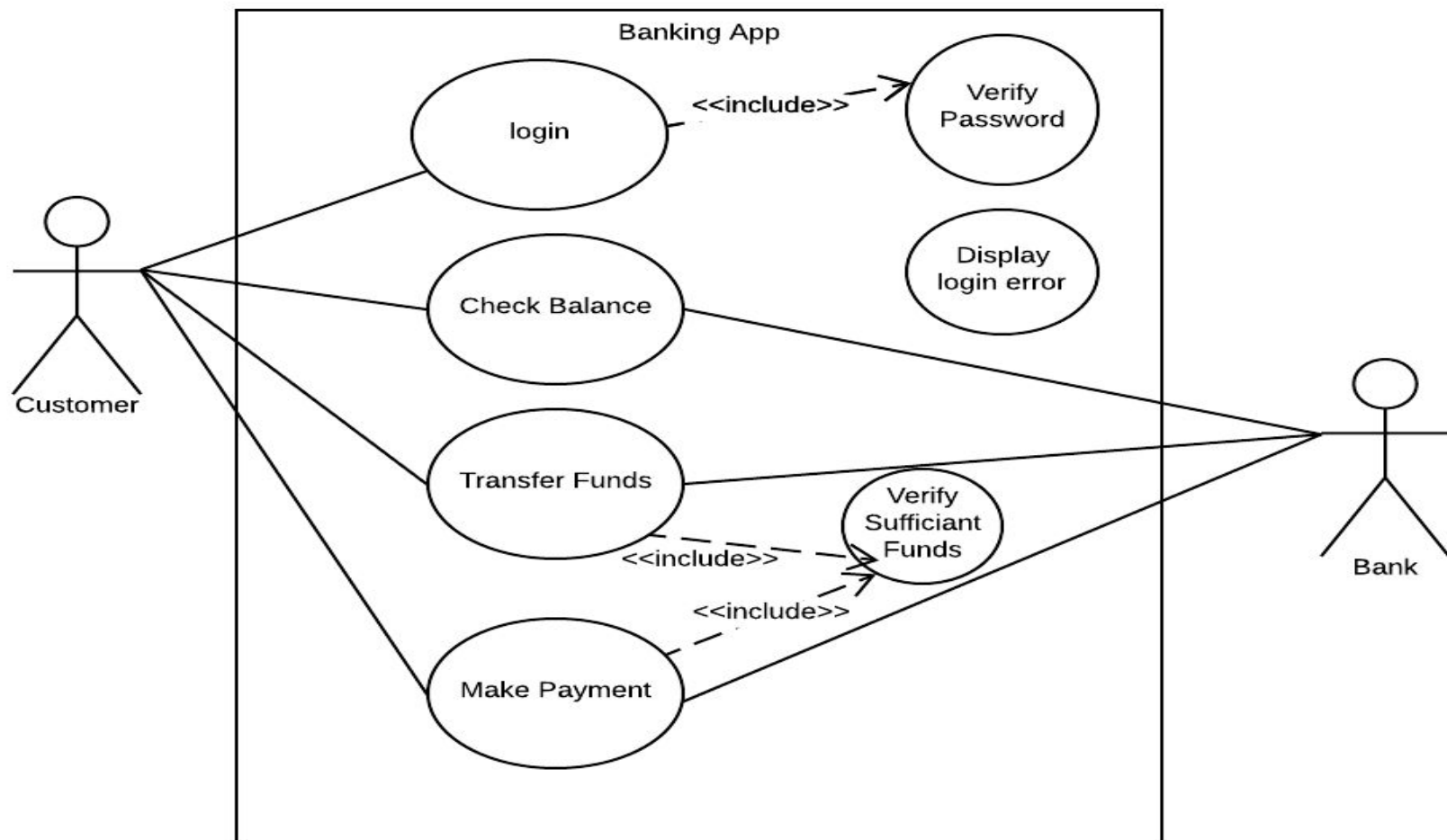
Use Case Diagram - Relationships

b) Include



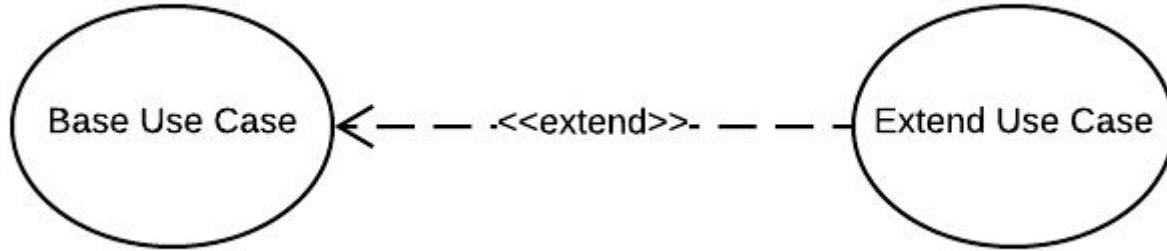




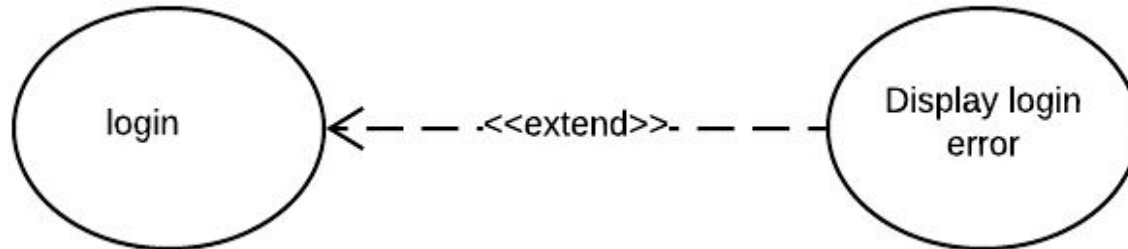


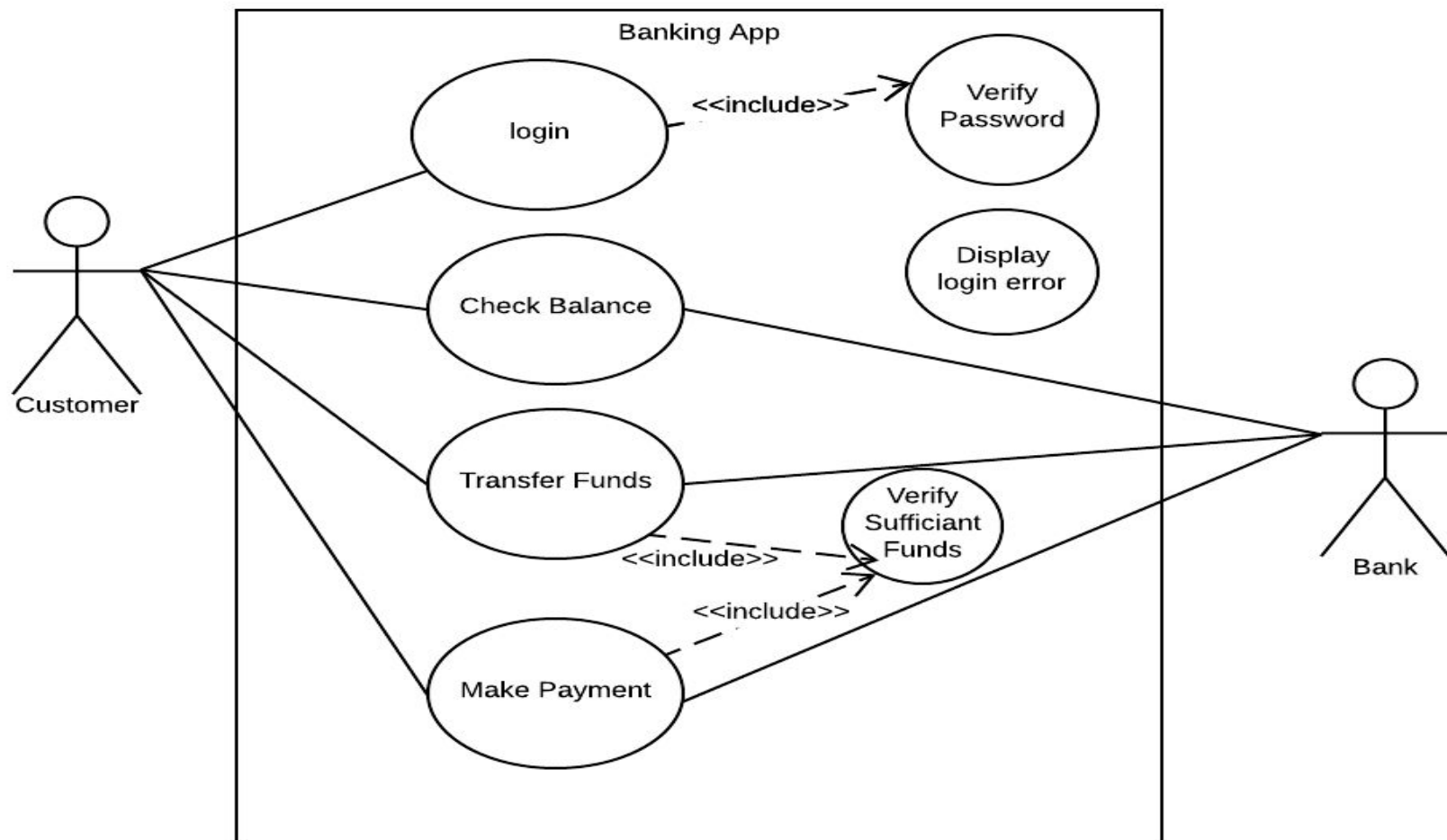
Use Case Diagram - Relationships

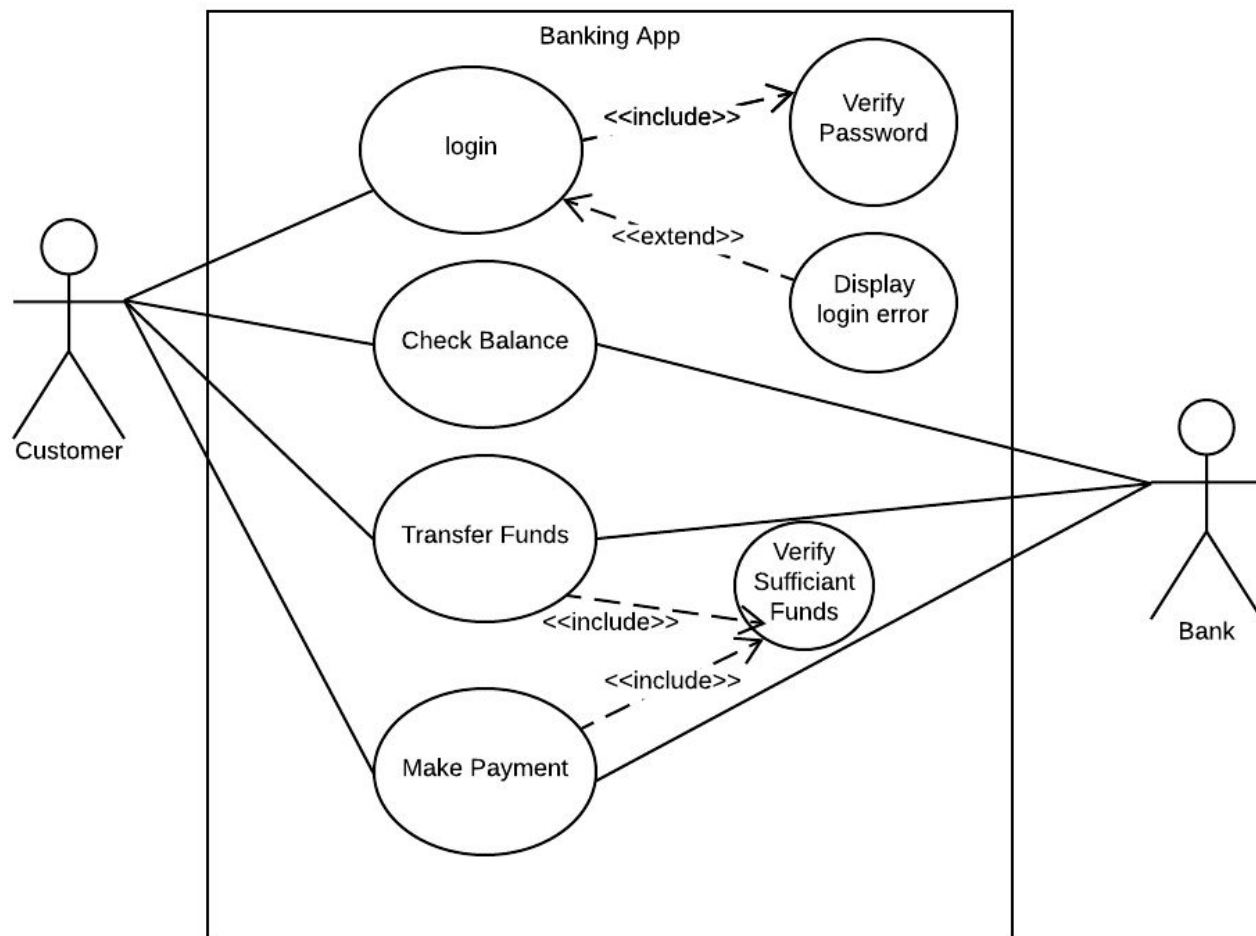
c) Extend



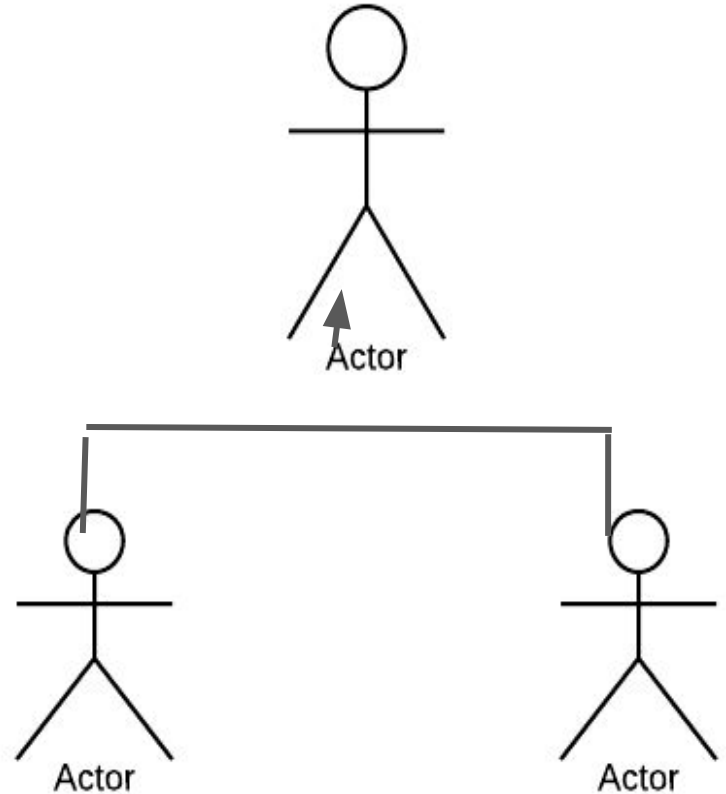
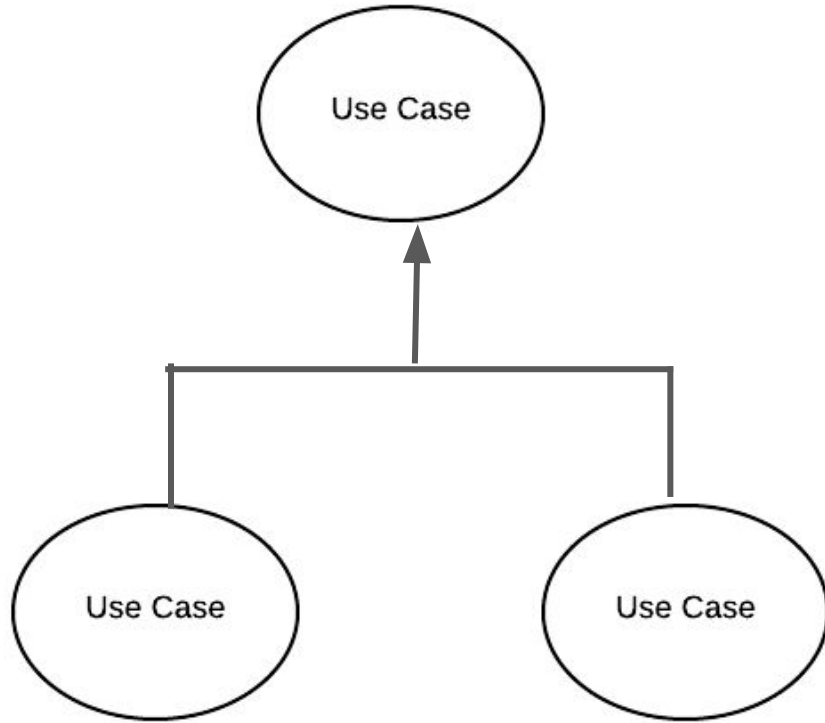
Example:

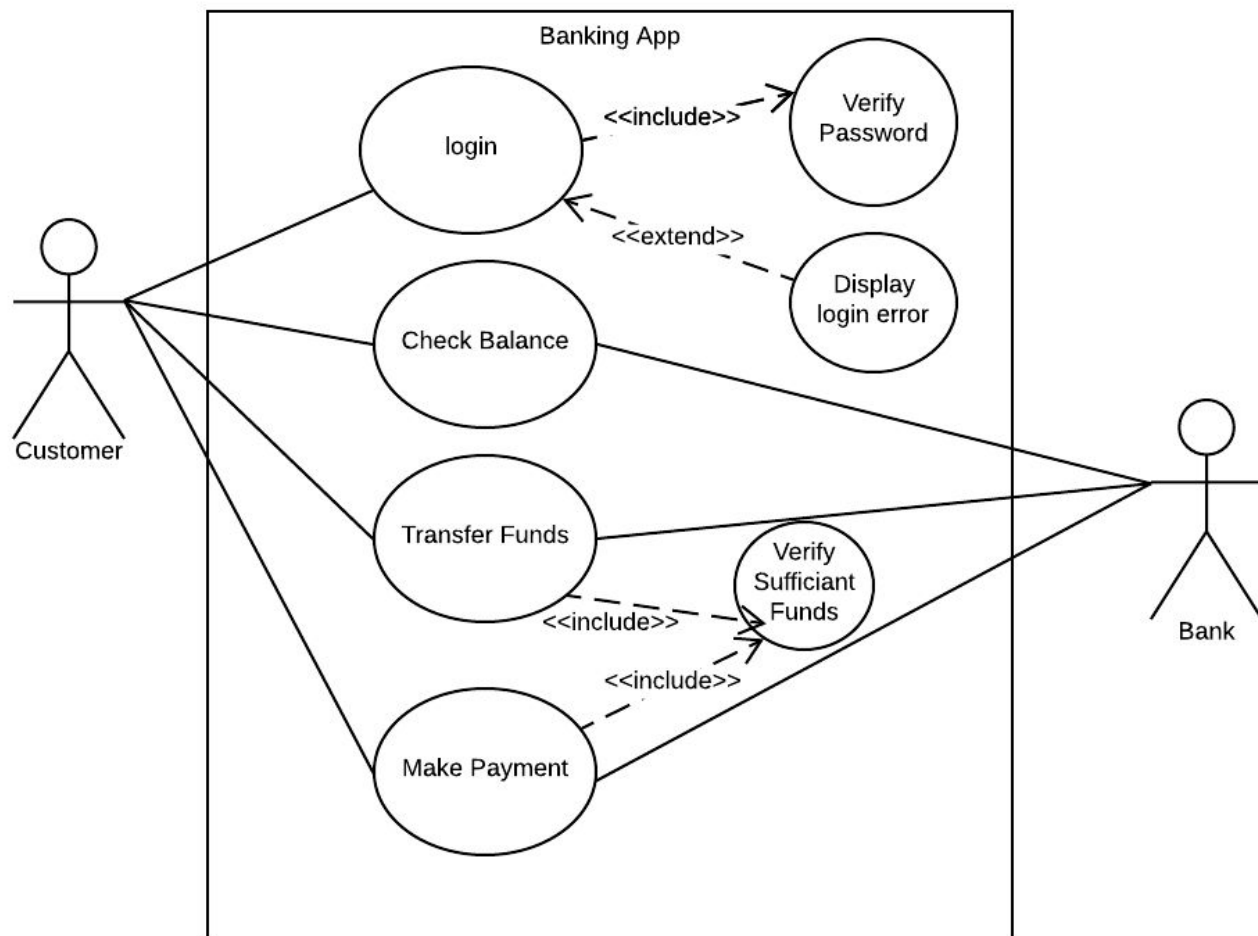


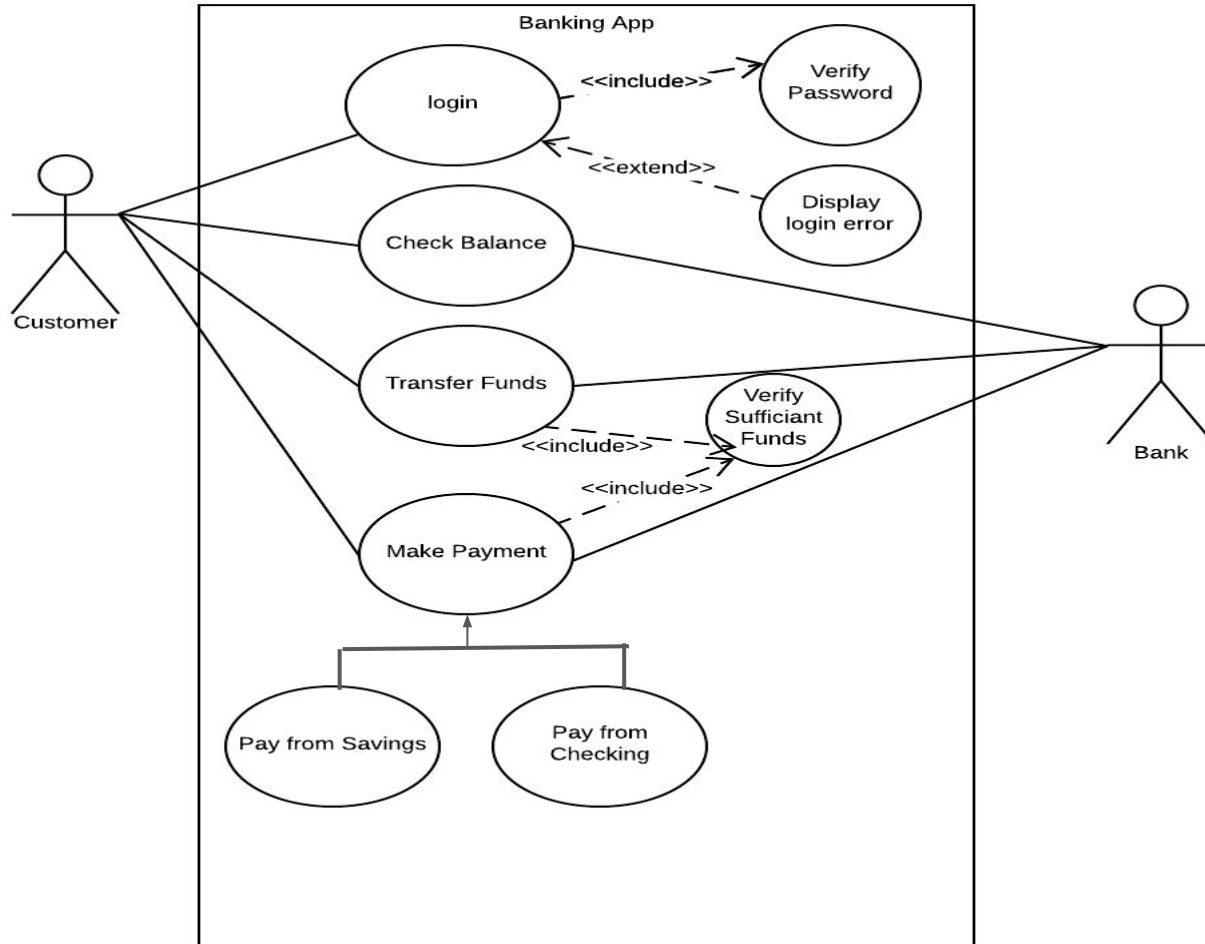




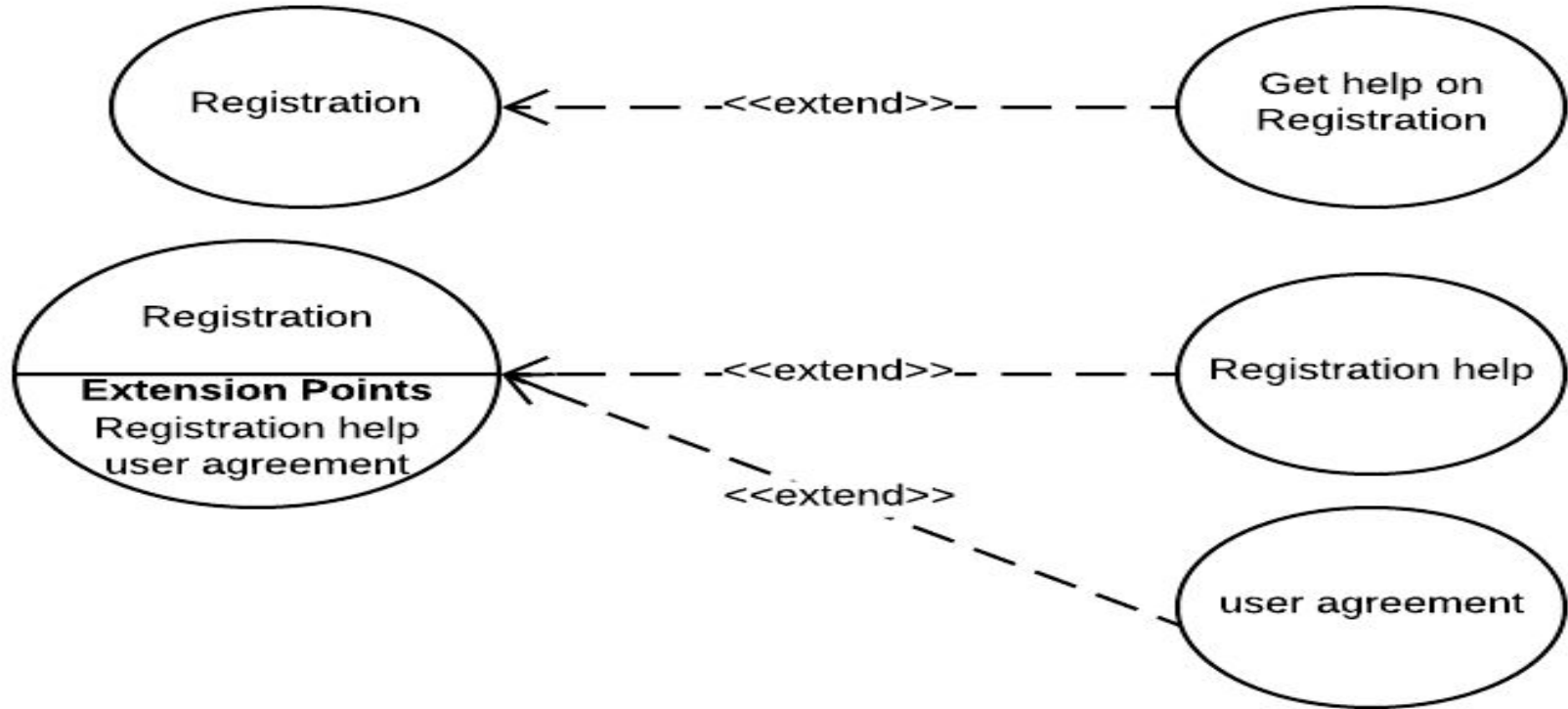
Use Case Diagram - Relationships

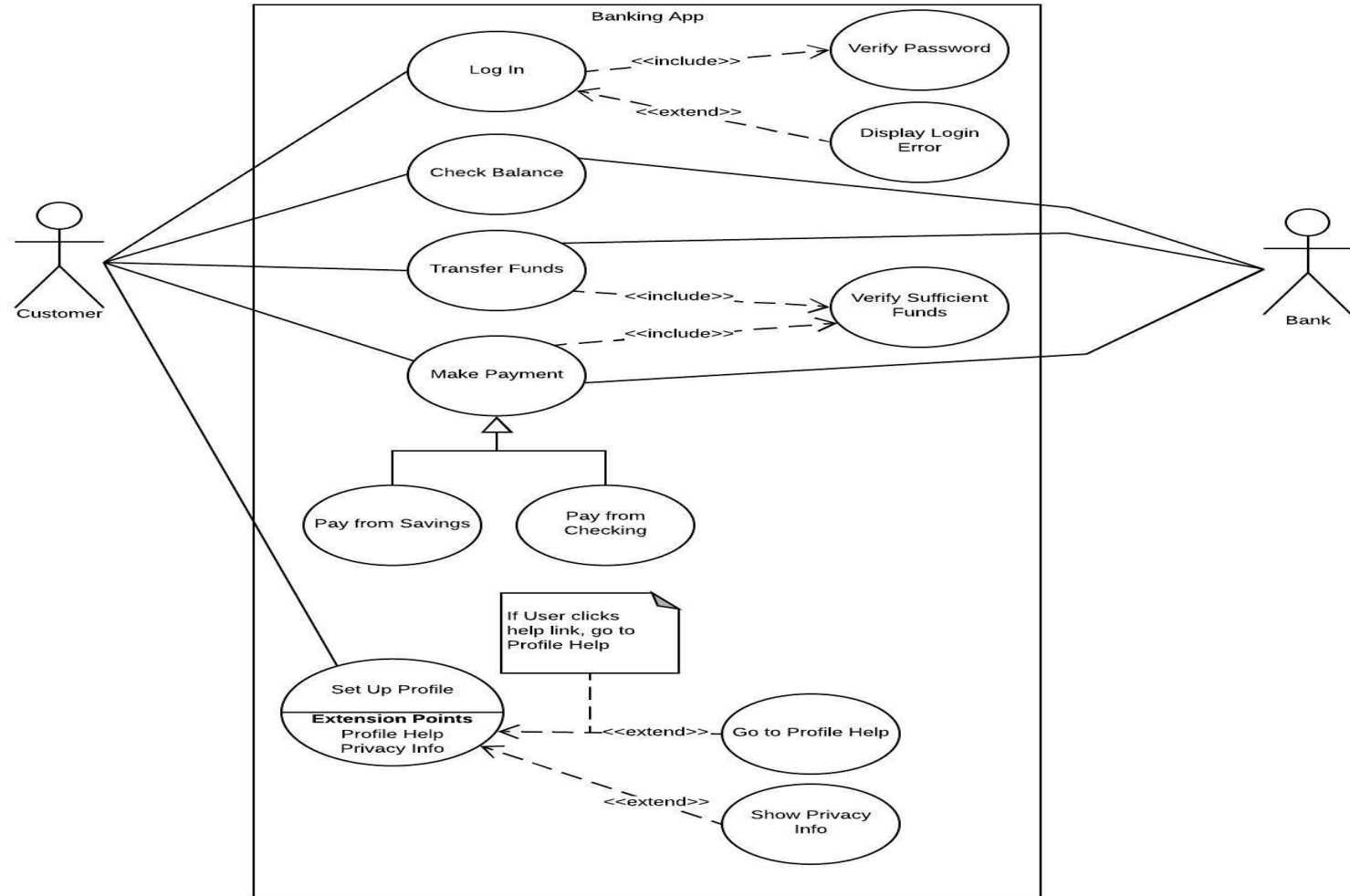






Use Case Diagram - Extension points





UML- case study

Railway Reservation System is a system used for booking tickets over internet. Any Customer can book tickets for different trains. Customer can book a ticket only if the tickets are available. If the tickets are available customer books the tickets upon make the payment and by initially filling details in a form.

For cancellation of ticket the customer has to go at reservation office with the fill-up during the ticket booking and ask the clerk to cancel the ticket than the refund is transferred to customer account.

