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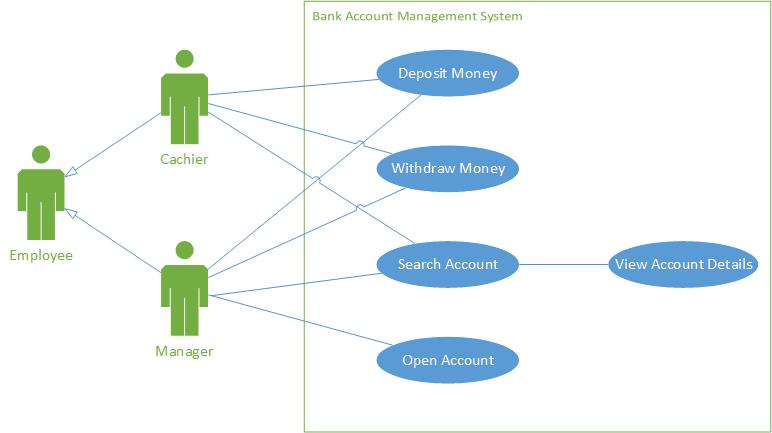
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# Task 1

Provide design solution (UML diagrams) for the above mention Scenario. Provide clear explanation for all the diagrams mention below.

## Usecase Diagram



# Task 2

Develop suitable system for the above scenario based on the design. Required to use Object Oriented concepts (Object, Class, Abstraction, Inheritance, Encapsulation and Polymorphism) for the development. Document the main functionalities and Object Oriented concepts applied with proper explanation and source code.

# Task 3

Provide a user manual for the developed solution.

### Home Screen



Figure : Welcome screen

If the user decides to continue as the manager user can click on the “Manager button” or else the user can continue as a cashier by clicking on the “Cashier” button.

## Manager

When the user decides to continue as the manager the user is directed to the following screen.



Figure : Manager home screen

Create new bank account.

After inserting all the required information, the manager can click “Open” button to open a new bank account.

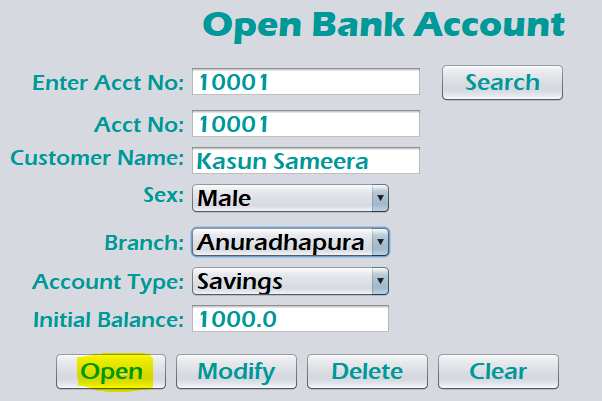


Figure : Create new account

All the required information should be provided to create an account.

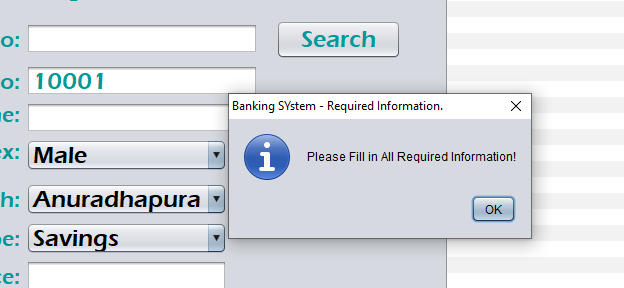


Figure : Information required warning message

### Search for an account

Search button can be used to search for an account.

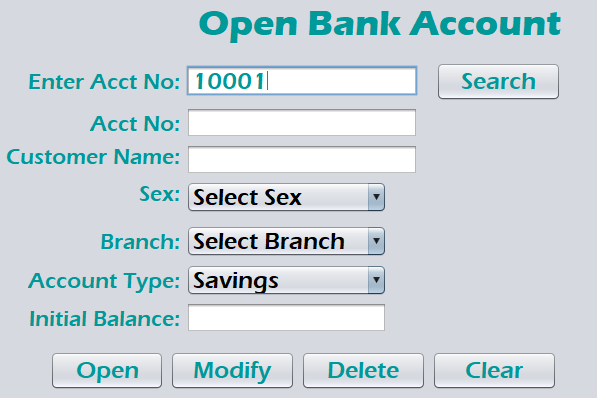


Figure : Search account

### Update and delete account

After searching for an account, the user can modify the account information.

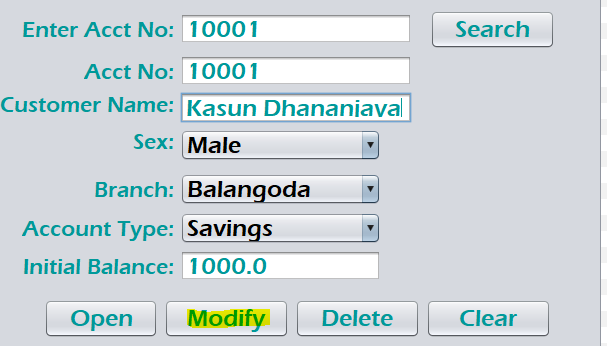
. 

Figure : Modify account information

After searching for an account the manager can delete the selected account.

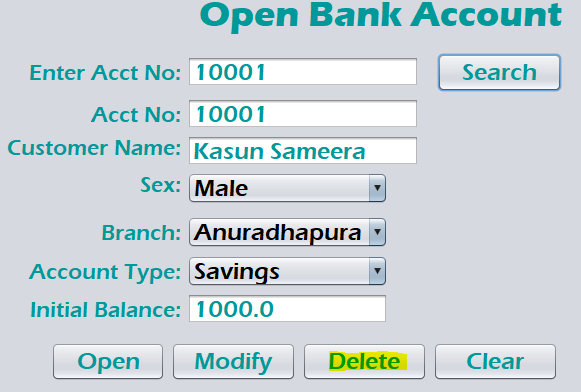


Figure : Delete an account

### View all accounts

All the accounts created can be seen in the right side of the application window.

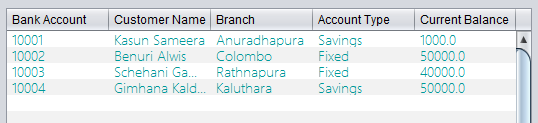


Figure : All bank accounts

### Deposit Money

Click deposit money from the navigation pane to navigate to deposit money window. An account must be selected before depositing money therefore, search for an account and add the depositing amount.

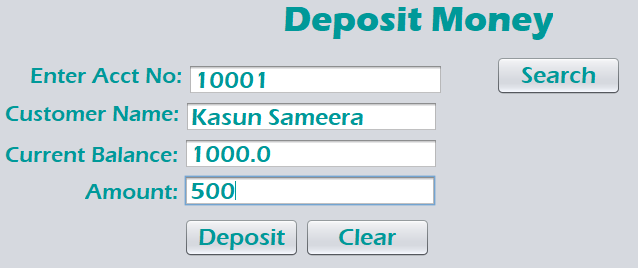


Figure : Deposit money

### Withdraw Money

Click withdraw money from the navigation pane to navigate to withdraw money window. An account must be selected before withdrawing money therefore, search for an account and add the withdraw amount.

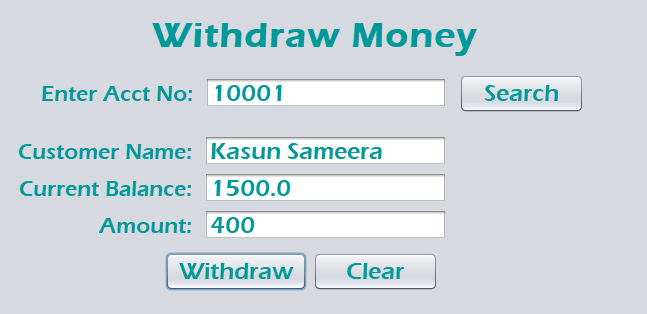


Figure : Withdraw money

If the user tris to withdraw an amount more than the current account balance the system will pop up an error massage.

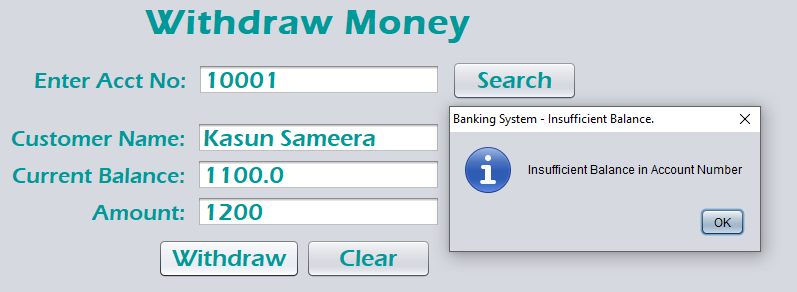


Figure : Insufficient balance message

### View transaction details

Navigate to “Bank Transaction” section to view details about the transactions done. Click on “View All” button to view all the transactions done within the day.

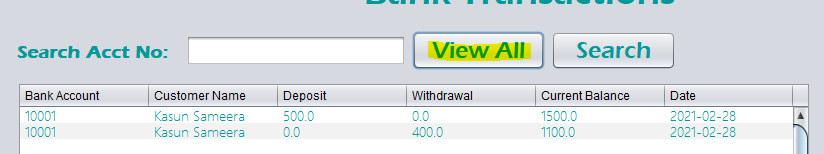


Figure : View all transactions

Enter an account number on the search bar and click “Search” button to get all transactions done from a selected account.

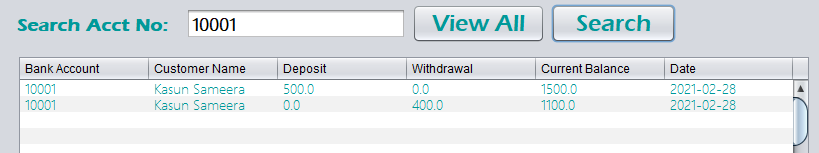


Figure : View transactions done by an account

## Cashier

Cashier has all the permissions same as the manager except creating and deleting bank accounts. Therefore, when a user continues as a cashier, create account and delete account buttons are not visible.

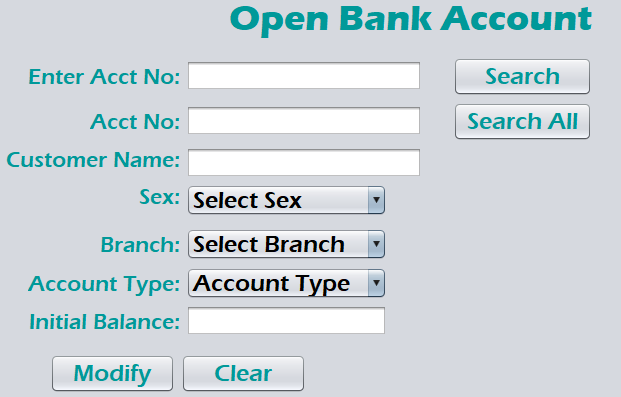


Figure : Cashier view