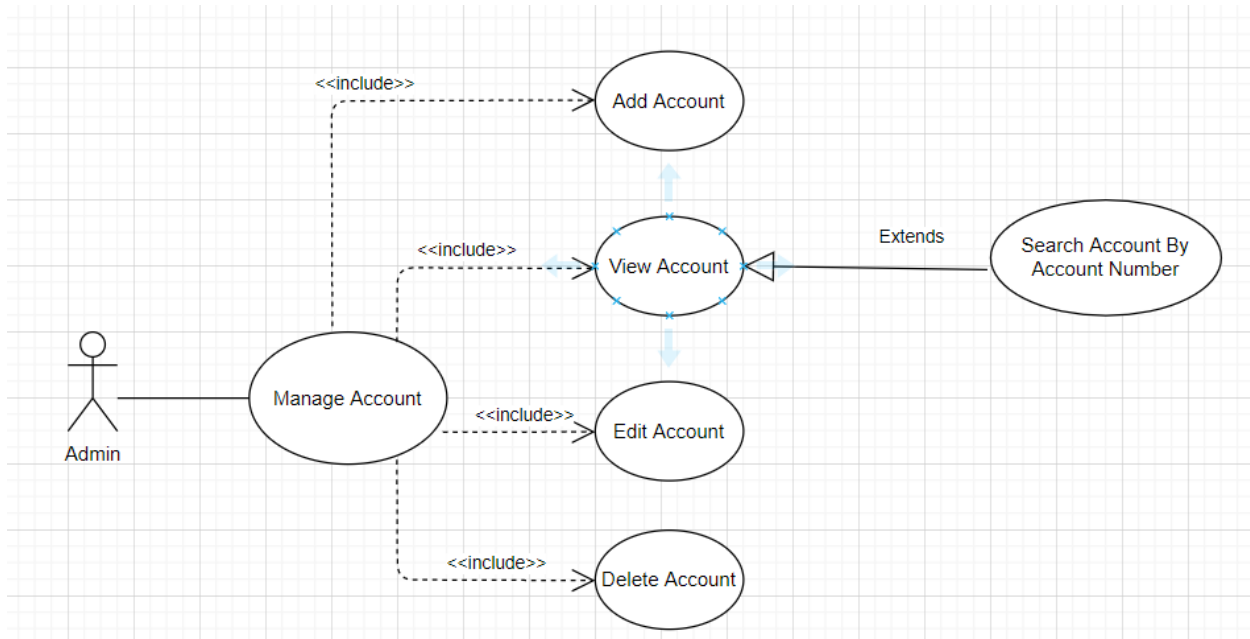# Use case Diagrams and Written use cases

I.   Admin

A.   Manage Account Use case Diagrams
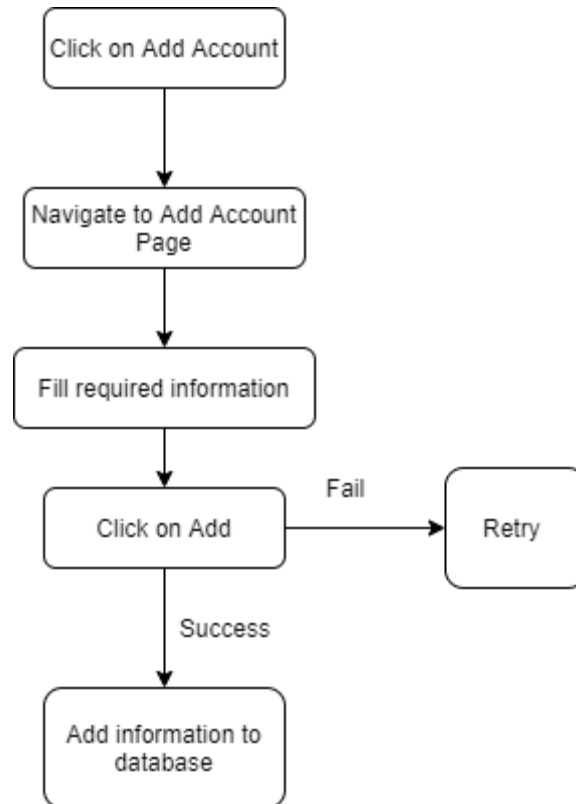

1. Add a new account

Use case's Name	Add new account
Description	Process of adding a new account Admin receives information from a customer who want to sign up and then adds the information to database.
Actors	Admin
Triggers	Admin wants to add a new account
Pre-Conditions	Admin receives request to create a new account from a user
Post-Conditions	Admin checks the database to ensure the new account is added successfully.
Main Event Flow	- Admin opens Add an account page - Fill provided information into corresponding field - Click button Add

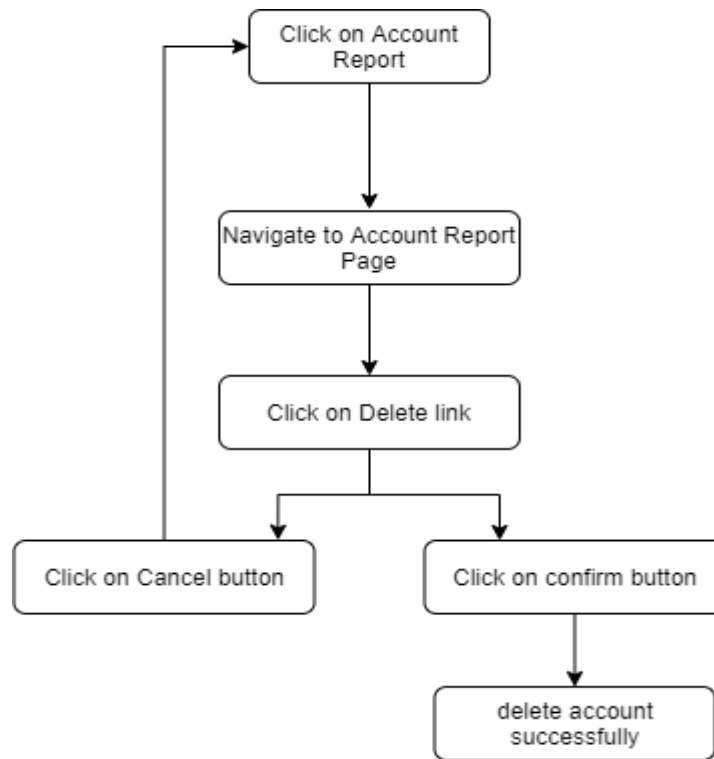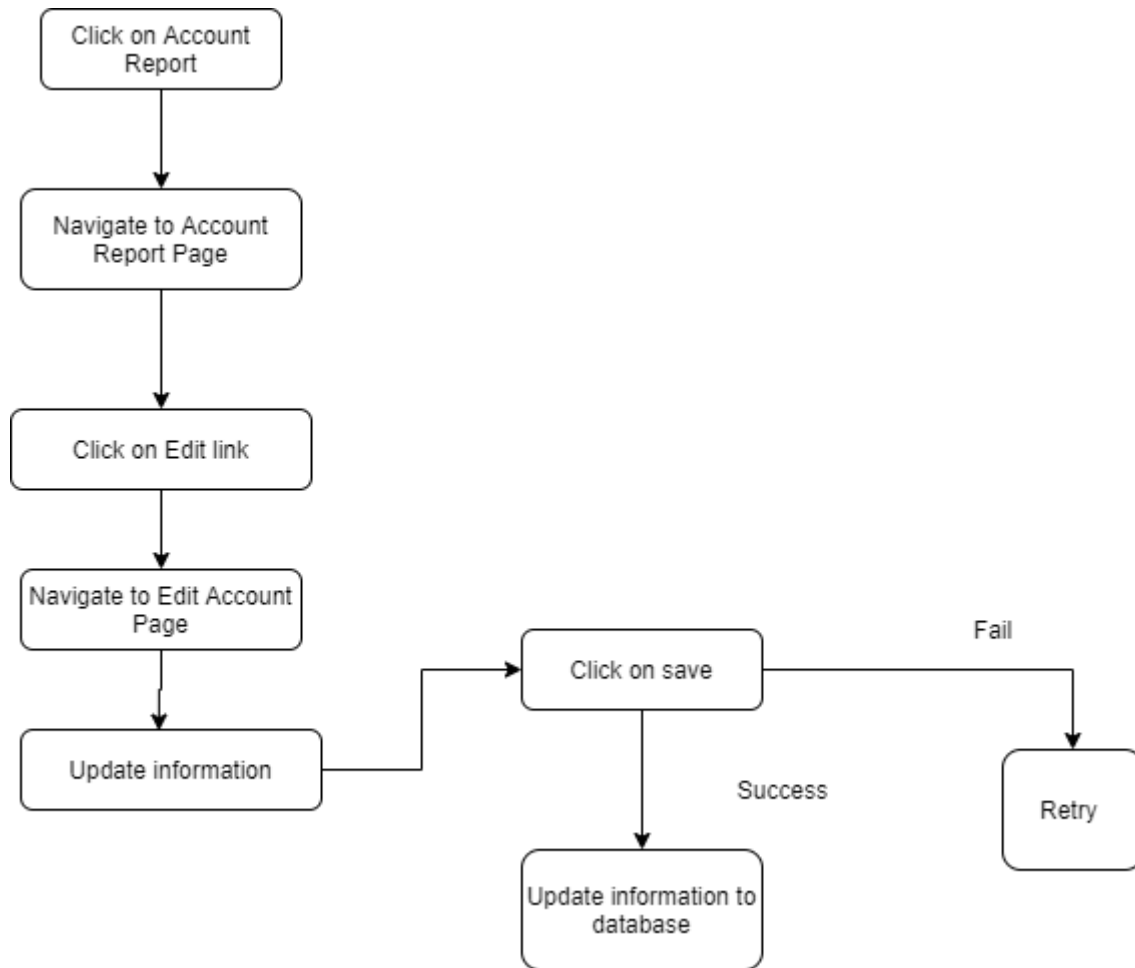|	
Alternative Event Flow	- Any invalid information for required field will cause errors and failed adding. - Admin may click Cancel button in the case to re-check the information
Special Requirements	- Admin has basic knowledge of manipulating the database. - Some required information likes phone, email especially account number has not existed in the database.

Figure 1: Flowchart for Adding an account

2. Edit an account

Use case's Name	Edit an account
Description	Process of editing an account

|	Admin edits some information of a user and save the edited data in database.
Actors	Admin
Triggers	Admin wants to edit an account
Pre-Conditions	Admin receives request to edit some information from a existing user
Post-Conditions	Admin checks the database to ensure the edited information is saved
Main Event Flow	- Admin opens List of Accounts and finds the user who needs editing then clicks Edit button - Finds fields need to edit and update the information - Clicks button Save
Alternative Event Flow	- Any invalid information for required field will cause errors and failed editing. - Admin may click Cancel button in the case to re-check the information
Special Requirements	Admin has basic knowledge of manipulating the database.

Figure 2: Flowchart for Editing an account

```
┌─────────────────┐
│ Click on Account│
│     Report      │
└─────────────────┘
         │
         ▼
┌─────────────────────┐
│ Navigate to Account │
│    Report Page      │
└─────────────────────┘
         │
         ▼
┌─────────────────────┐
│ Click on Delete link│
└─────────────────────┘
      │        │
      ▼        ▼
┌──────────────┐  ┌──────────────────┐
│Click on      │  │Click on confirm  │
│Cancel button │  │button            │
└──────────────┘  └──────────────────┘
                          │
                          ▼
                  ┌──────────────────┐
                  │ delete account   │
                  │  successfully    │
                  └──────────────────┘
```

3. Delete an account

Use case's Name	Delete an account
Description	Process of deleting an account Admin deletes an account that no need managing
Actors	Admin
Triggers	Admin wants to delete an account
Pre-Conditions	Admin receives request to delete an account or find that there is no sense to manage this user
Post-Conditions	Admin checks the database to ensure the user's information is deleted successfully.

|	
Main Event Flow	- Admin opens List of Accounts page, find the user who needs to be deleted and clicks Delete button - Confirm deleting
Alternative Event Flow	- Admin may click Cancel button in the case to re-check the information
Special Requirements	Admin has basic knowledge of manipulating the database.

Figure 3: Flowchart for Deleting an account
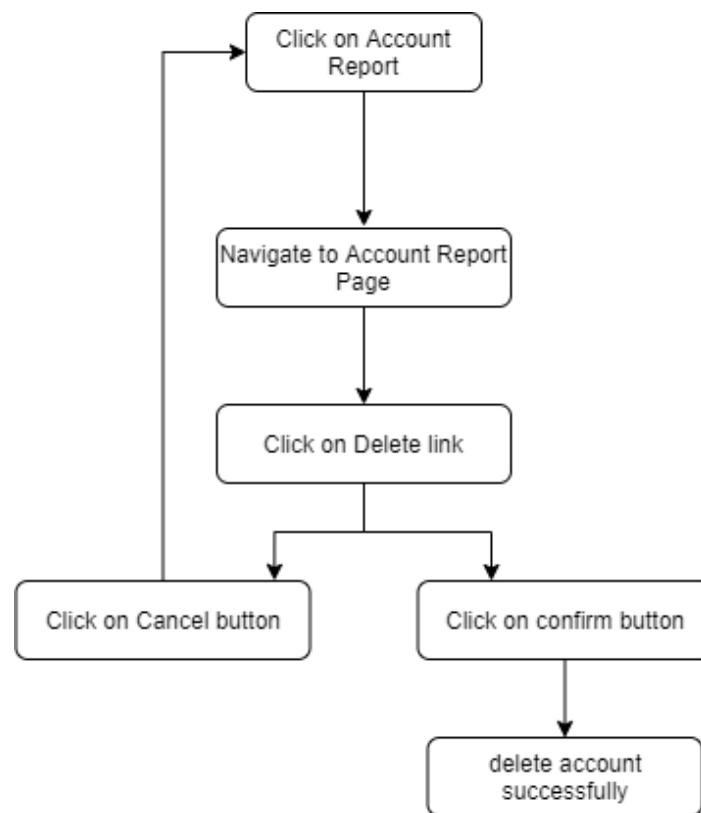
4. View all user's accounts

Use case's Name	**View all accounts in the bank**
Description	Process of viewing all user's accounts Admin views list of accounts in the bank
Actors	Admin

|	
Triggers	Admin wants to view all accounts
Pre-Conditions	Admin wants to check information of users
Post-Conditions	No post-condition.
Main Event Flow	- Admin opens List of Accounts page
Alternative Event Flow	- Admin may click Edit/Delete button
Special Requirements	No special requirement.

Figure 4: Flowchart for Viewing all accounts
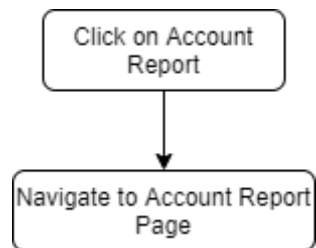

5. Search an account by account number

Use case's Name	**Search an account**
Description	Process of searching an account Admin views list of accounts in the bank and searches for specific account by entering account number and click search button
Actors	Admin
Triggers	Admin wants to search an account
Pre-Conditions	Admin wants to view information of a specific account
Post-Conditions	No post-condition.
Main Event Flow	- Admin opens List of Accounts page

	- In the field search, admin enters account number and click Search button to search a for user's data
Alternative Event Flow	- Admin may click Edit/Delete button
Special Requirements	Admin has basic knowledge of manipulating the database.

Figure 5: Flowchart for Searching an account based on account number
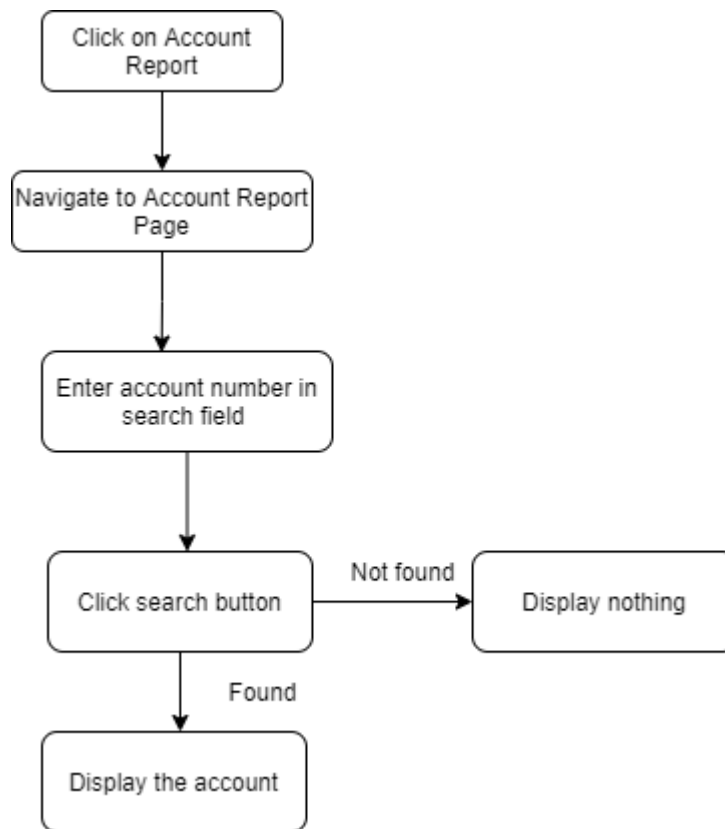
B. Manage Transaction Use case Diagrams
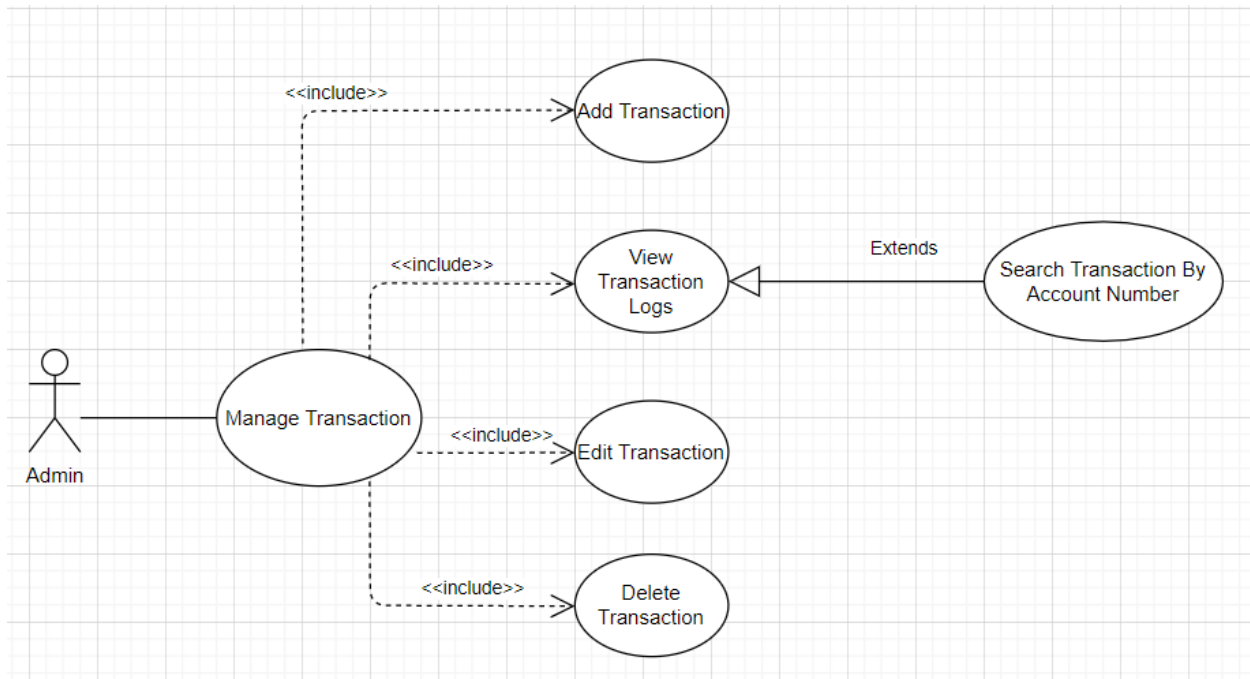
1. Add a transaction

Use case's Name	Add a transaction
Description	Process of adding a transaction Admin receives information from a customer who made a transaction and adds the information to database.
Actors	Admin
Triggers	Admin wants to add a transaction
Pre-Conditions	Admin receives transaction's information to create a transaction
Post-Conditions	Admin checks the transaction log to ensure the transaction is added successfully.
Main Event Flow	- Admin opens Add a transaction page - Fill provided information into corresponding field - Click button Add
Alternative Event Flow	- Any invalid information for required field will cause errors and failed adding.

	- Admin may click Cancel button in the case to re-check the information
Special Requirements	- Admin has basic knowledge of manipulating the database.

Figure 6: Flowchart for Adding a transaction
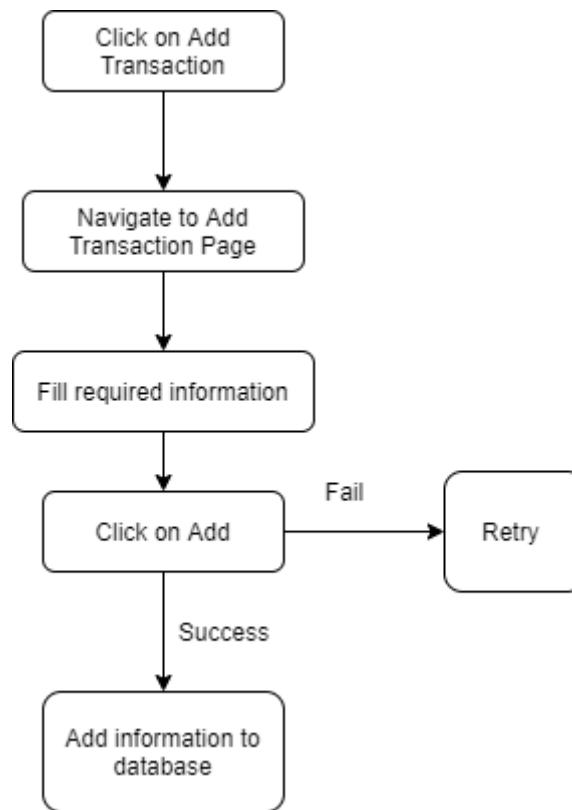
2. Edit a transaction

Use case's Name	**Edit a transaction**
Description	Process of editing a transaction Admin edits some information of a transaction
Actors	Admin
Triggers	Admin wants to edit a transaction

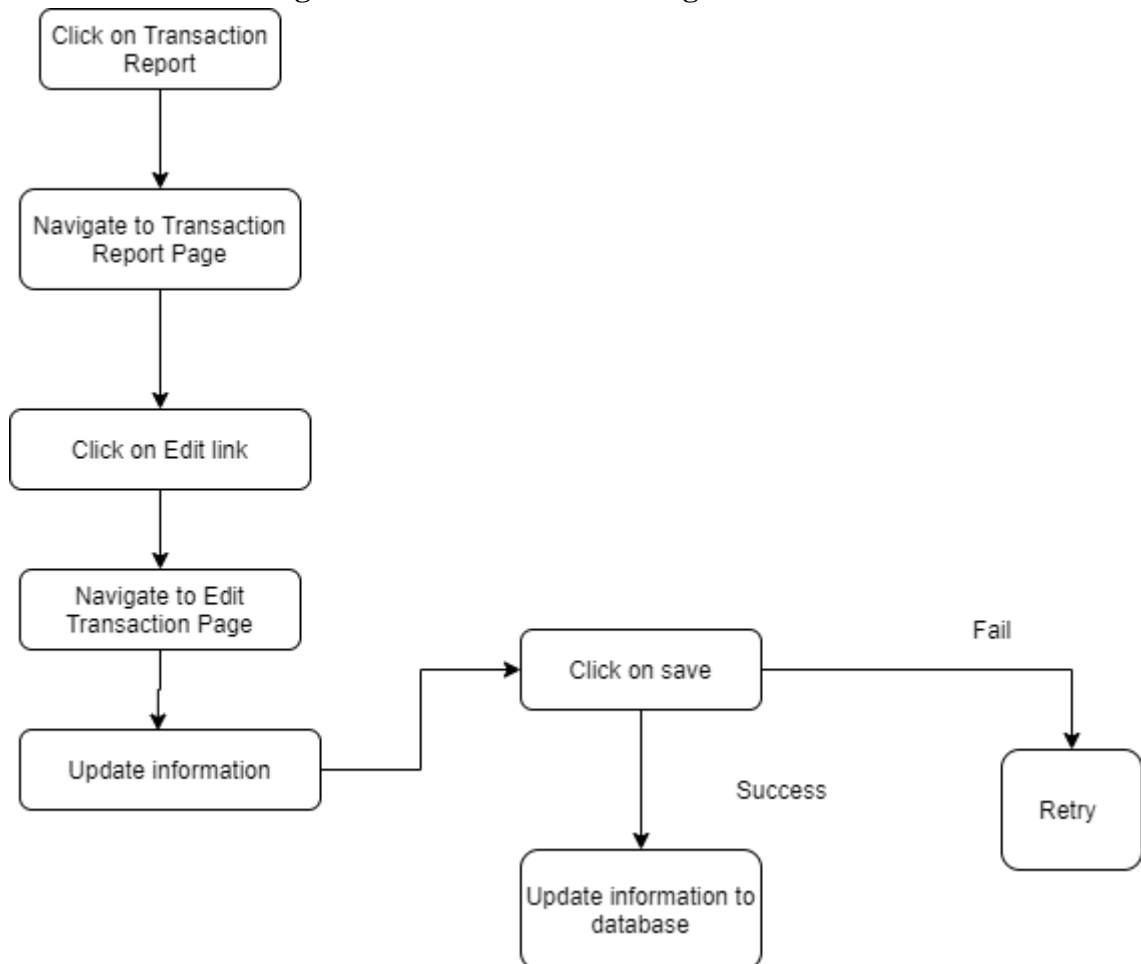|	
Pre-Conditions	The transaction has been exited in the transaction logs
Post-Conditions	Admin checks the transaction log to ensure the transaction is edited successfully.
Main Event Flow	- Admin opens Edit a transaction page - Fill provided information into corresponding field - Click button Save
Alternative Event Flow	- Any invalid information for required field will cause errors and failed adding. - Admin may click Cancel button in the case to re-check the information
Special Requirements	- Admin has basic knowledge of manipulating the database.

Figure 7: Flowchart for Editing a transaction

3. Delete a transaction

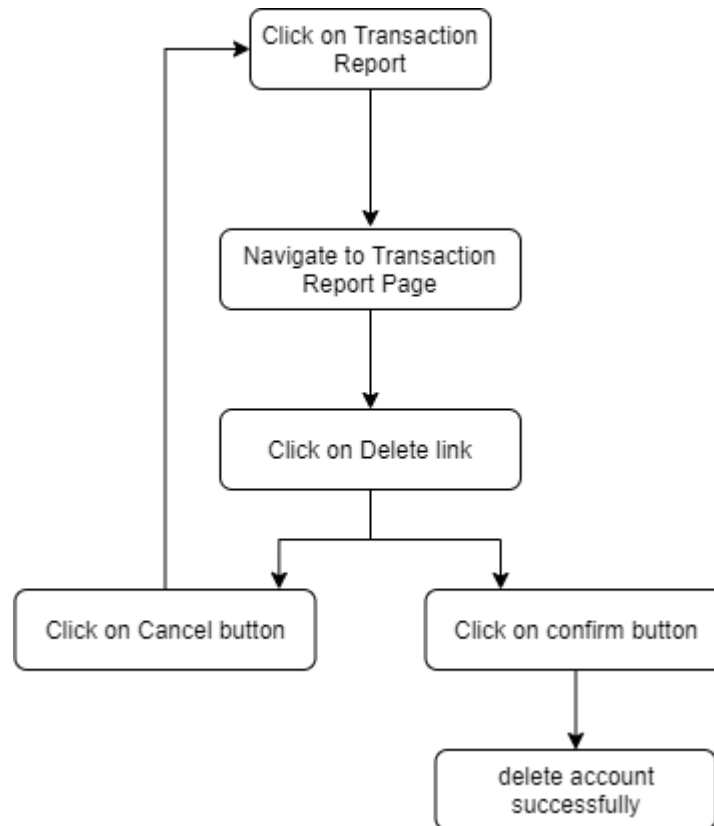| Use case's Name	Delete a transaction
Description	Process of deleting an account Admin deletes a transaction that no need managing
Actors	Admin
Triggers	Admin wants to delete a transaction
Pre-Conditions	Admin receives request to delete a transaction or find that there is no sense to manage this transaction
Post-Conditions	Admin checks the database to ensure the transaction log is deleted successfully.
Main Event Flow	- Admin opens List of Transactions page, find the transaction which needs to be deleted and clicks Delete button - Confirm deleting
Alternative Event Flow	- Admin may click Cancel button in the case to re-check the information
Special Requirements	Admin has basic knowledge of manipulating the database.

Figure 8: Flowchart for Deleting a transaction

4. View transaction logs

Use case's Name	View log of transactions
Description	Process of viewing all transaction history Admin views log of transactions in the bank
Actors	Admin
Triggers	Admin wants to all transactions
Pre-Conditions	Admin wants to check log of transactions
Post-Conditions	No post-condition.
Main Event Flow	- Admin opens List of Transactions page
Alternative Event Flow	- Admin may click Edit/Delete button
Special Requirements	No special requirement.

Figure 9: Flowchart for Viewing all transactions
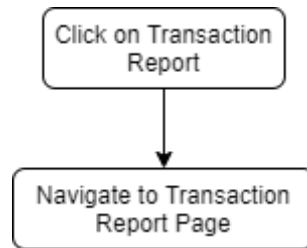
5. Search transactions by account number

Use case's Name	Search transactions based on account number
Description	Process of searching a transaction log Admin views list of transaction in the bank and searches for specific transaction logs by entering account number and click search button
Actors	Admin
Triggers	Admin wants to search transaction logs of an account
Pre-Conditions	Admin wants to view information of a specific account
Post-Conditions	No post-condition.
Main Event Flow	- Admin opens List of Transactions page - In the field search, admin enters account number and click Search button to search a for transaction log
Alternative Event Flow	- Admin may click Edit/Delete button
Special Requirements	Admin has basic knowledge of manipulating the database.

Figure 10: Flowchart for Search a transaction based on account number

```
┌─────────────────────┐
│ Click on Transaction │
│       Report         │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐
│ Navigate to Transaction │
│    Report Page       │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐
│ Enter account number in │
│     search field     │
└─────────────────────┘
           │
           ▼
┌─────────────────────┐   Not found    ┌─────────────────────┐
│  Click search button │ ─────────────► │   Display nothing    │
└─────────────────────┘                └─────────────────────┘
           │
           │ Found
           ▼
┌─────────────────────┐
│ Display the transactions │
└─────────────────────┘
```