| UC Name | | *UC 01 / User Login* | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Summary | | *This UC involves the process of users logging into the bank management system to access their accounts securely.* | | | | | | | |
| Dependency | | *None* | | | | | | | |
| Actors | | *Primary Actor: User*  *Secondary Actor: None* | | | | | | | |
| Preconditions | | * *The bank management system is operational.* * *The user has valid credentials (username and password).* | | | | | | | |
| Description of the Main Sequence | | * *User navigates to the login page of the bank management system.* * *User enters their username and password.* * *System validates the user's credentials.* * *If the credentials are valid, the system grants access to the user's account.* * *If the credentials are invalid, the system displays an error message.* | | | | | | | |
| Description of the Alternative Sequence | | *None* | | | | | | | |
| Non functional requirements | | * *Performance: The login process should be fast and responsive, with minimal delay.* * *Security: The system should implement strong encryption methods to protect user credentials during transmission and storage.* | | | | | | | |
| Postconditions | | *The user gains access to their account if the login credentials are valid.* | | | | | | | |

| UC Name | | *UC 02 / Account Management* | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Summary | | *This UC involves the management of user accounts within the bank management system, including opening new accounts and closing existing ones.* | | | | | | | |
| Dependency | |  | | | | | | | |
| Actors | | *Primary Actor: User*  *Secondary Actor: None* | | | | | | | |
| Preconditions | | * *The user is authenticated and authorized to manage accounts.* * *The bank management system is operational.* | | | | | | | |
| Description of the Main Sequence | | * *User selects the option to manage accounts.* * *User chooses to either open a new account or close an existing one.* * *For opening a new account:*   + *User provides necessary information such as account type and personal details.*   + *System validates the information and creates the new account.* * *For closing an existing account:*   + *User selects the account to be closed.*   + *System prompts for confirmation.*   + *If confirmed, the system closes the account and updates the database accordingly.* | | | | | | | |
| Description of the Alternative Sequence | |  | | | | | | | |
| Non functional requirements | | * *Reliability: The system should ensure that account management operations are executed accurately and reliably without data loss.* * *Scalability: The system should be able to handle a large number of account management requests efficiently, especially during peak times.* | | | | | | | |
| Postconditions | | * *For opening a new account:*   + *The new account is successfully created and added to the system.*   + *The user receives confirmation of the successful account creation.* * *For closing an existing account:*   + *The selected account is successfully closed, and it is no longer active in the system.*   + *Any associated funds or transactions related to the closed account are appropriately handled and accounted for in the system.*   + *The user receives confirmation of the successful closure of the account.* | | | | | | | |

| UC Name | | *UC 03 / Transaction History* | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Summary | | *This UC involves allowing users to view their transaction history, including details such as date, time, amount, and transaction type.* | | | | | | | |
| Dependency | |  | | | | | | | |
| Actors | | *Primary Actor: User*  *Secondary Actor: None* | | | | | | | |
| Preconditions | | * *The user is authenticated and authorized to access transaction history.* * *The bank management system is operational.* | | | | | | | |
| Description of the Main Sequence | | * *User navigates to the transaction history section.* * *User selects the account for which they want to view transaction history.* * *System retrieves and displays the transaction history for the selected account, including details such as date, time, amount, and transaction type.* * *Users can filter or search for specific transactions if needed.* | | | | | | | |
| Description of the Alternative Sequence | |  | | | | | | | |
| Non functional requirements | | * *Usability: The transaction history interface should be intuitive and user-friendly, allowing users to easily navigate and understand their transaction records.* * *Performance: The system should retrieve and display transaction history quickly, even when dealing with large datasets.* | | | | | | | |
| Postconditions | | * *The user successfully views their transaction history.* * *The system remains in a stable state, with no changes to account balances or transaction records.* * *Any filters or search criteria applied by the user are reset, leaving the transaction history interface ready for future use.* | | | | | | | |

| UC Name | | *UC 04 / Online Banking Services* | | | | | | | |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Summary | | *This UC involves providing online banking services to users, allowing them to access their accounts, make transactions, and manage their finances remotely.* | | | | | | | |
| Dependency | |  | | | | | | | |
| Actors | | *Primary Actor: User*  *Secondary Actor: None* | | | | | | | |
| Preconditions | | * *The user is authenticated and authorized to access online banking services.* * *The bank management system is operational.* | | | | | | | |
| Description of the Main Sequence | | * *User logs into the online banking portal.* * *Users can perform various banking activities such as checking account balances, making transfers, paying bills, and setting up alerts.* * *System processes the user's requests securely and updates the account information accordingly.* * *Users receive confirmation and updates on the status of their transactions.* | | | | | | | |
| Description of the Alternative Sequence | |  | | | | | | | |
| Non functional requirements | | * *Security: The online banking portal should employ strong security measures to protect user data and transactions from unauthorized access and fraud.* * *Accessibility: The online banking portal should be accessible across multiple devices and platforms, including web browsers and mobile applications.* | | | | | | | |
| Postconditions | | * *The user successfully completes their online banking activities, such as checking balances, making transactions, or setting up alerts.* * *The system accurately processes and records the user's transactions and updates account information as necessary.* * *Any alerts or notifications set up by the user are active and functioning as intended.* * *The user's session is securely terminated, ensuring that no unauthorized access to their account occurs after they have finished using the online banking services.* | | | | | | | |