**Use Case ID**: {This should be coded to identify the level of the use case}

**Use Case Name**: Transfer Funds use case allows banking customers to transfer money in or out of their bank accounts, or a bank teller to transfer funds for the customer

**Relevant Requirements**: \* UML Use Case Diagrams document

**Primary Actor**: Customer, Bank Teller

**Pre-conditions**: The customer must be logged into the banking web application through the internet, or Bank Teller must be given permission by the customer to transfer funds.

**Post-conditions**: The source account (customer’s money being put into the destination account) must be correctly credited with no loss during transit. This means the bank teller or bank system must correctly withdraw or deposit the correct amount of money every time.

**Basic Flow or Main Scenario**: The customer must select which two accounts they are transferring funds to.

* The customer selects their funds using the select account use case which this use case <<imports>>.
* The customer selects the destination account using the select account use cases.
* The actor enters the amount to transfer and confirms by pressing the proceed button.
* The source account gets a debt of the required amount.
* The destination account gets credit for the amount transferred.

**Exceptions**: Insufficient Funds

* This exception will prevent this use case from occurring and will state that there is an insufficient amount of funds
* If the integrity of the funds when transferred is not preserved (funds added and taken away don’t add up correctly) freeze the accounts and request a bank teller to help.

**Related Use Cases**: Select Account use case

**Use Case ID:** Customer.1

**Use Case Name:** Customer withdraws money from their account.

**Relevant Requirements:** \* {Reference to relevant requirements document.}

**Primary Actor:** ATM

**Pre-conditions:** Customers must successfully log in with their debit or credit card and pin. Sufficient funds must be in the account.

**Post-conditions:** Customer was able to withdraw the requested amount.

**Basic Flow or Main Scenario:** Customer logs into ATM with pin and debit/credit card, money amount is requested, and then the amount is given to the customer.

**Extensions or Alternate Flows:** Customers log into an ATM with their pin and their debit/credit card, they then check their balance, make a request to withdraw a certain amount of money, and then the money is given.

**Exceptions:**

* Customer tries to withdraw more than is available in their account which would lead to an error message saying “Insufficient funds”.
* Customer tries to withdraw more than their daily limit which would lead to rejection from the system.

**Related Use Cases:** Customer may check their balance or switch accounts.

**Use Case ID:** Customer.2

**Use Case Name:** Customer deposits money to account.

**Relevant Requirements:** \* {Reference to relevant requirements document.}

**Primary Actor:** ATM

**Pre-conditions:** Customer must successfully login with their debit or credit card and pin. Customer must also provide valid bills to be deposited.

**Post-conditions:** The amount of money the ATM received from customer will be deposited into their account.

**Basic Flow or Main Scenario:** Customer logs into ATM with pin and debit/credit card and then deposits money.

**Extensions or Alternate Flows:** Customer logs into ATM with pin and debit/credit card, checks their balance, and then deposits money.

**Exceptions:**

Customer provides non-valid bills which will cause an error message and return bills back to the customer.

**Related Use Cases:** Customer may check their balance or switch accounts.

**Use Case ID:** Customer.3

**Use Case Name:** Customer transactions.

**Relevant Requirements:** \* {Reference to relevant requirements document.}

**Primary Actor:** Customer

**Pre-conditions:** Customer must provide debit or credit card and pin for stores card reader. Customer’s request must not exceed the credit card limit or more than the amount in the debit account.

**Post-conditions:** Customers transaction goes through and money requested is transferred to the merchant.

**Basic Flow or Main Scenario:** Customer inserts card into card reader to pay for goods, card information is sent to bank to be approved, and then bank approves transaction.

**Extensions or Alternate Flows:**

**Exceptions:**

Customer provides incorrect pin.

**Related Use Cases:** Customer balance is updated.

**Use Case ID:** Customer.4

**Use Case Name:** Customer checks bank statement or/and balance.

**Relevant Requirements:** \* {Reference to relevant requirements document.}

**Primary Actor:** Customer and ATM

**Pre-conditions:** Customer must provide debit or credit card and correct pin.

**Post-conditions:** ATM displays current balance or/and transaction history.

**Basic Flow or Main Scenario:** Customer logs into ATM with pin and debit/credit card and then is able to see their bank statement or/and balance.

**Exceptions:**

Customer does not provide appropriate debit/ credit card.

Customer provides an invalid pin.

**Related Use Cases:** Customer may check their balance or switch accounts.

**Use Case ID:** BankTeller.1

**Use Case Name:** Bank Teller can create or delete an account.

**Relevant Requirements:** \* {Reference to relevant requirements document.}

**Primary Actor:** Primary actors include Bank employees and Bank customers.

**Pre-conditions:** The customer should have valid information to create the account. In order for an employee to delete an account, the account must already exist and the account must have no funds.

**Post-conditions:** The customer will attain an account be that checking or savings. Upon deletion of the account, customers will be without an account.

**Basic Flow or Main Scenario:** For account creation: Customer requests that the bank employee creates a new account or add a new account. The customer has obtained a new account.

For account deletion: Customer makes a request to the bank employee to delete one or more of the customer’s accounts. Bank employee confirms the customer's request and deletes requested accounts.

**Extensions or Alternate Flows:** The extensions of creating new accounts comes from what type of account is made (e.g. savings account, joint account, etc).

**Exceptions:**

Customer provides invalid information.

Customer id matches an already existing id

Customer attempts to delete an account still containing funds

**Related Use Cases:** Customers with newly created accounts can now do basic financial functions such as making deposits, withdrawals, transfers, and view bank statements.

Prior to account deletion, the customer must withdraw all funds from the account.