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

Use Case Name: {Short descriptive phrase}

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

Primary Actor: {Main sub-system/entity that initiates use}

Pre-conditions: {Requirements on the state of the system prior to this use being valid.}

Post-conditions: {This describes the state of the system following the successful completion of this use. Effects on other systems and actors may also be described.}

Basic Flow or Main Scenario: {Numbered flow of events: 1 The user initiates an action by... 2 The system responds by...}

Extensions or Alternate Flows: {This section presents variations on this use case. It presents those use cases that have an extends relation with the current use case.}

Exceptions: {This section describes all error conditions that can arise in the use case.}

Related Use Cases: {use cases that are either usually performed just before or after the current use.}

Use Case ID: JBA 001

Use Case Name: Sign up for customer account

Relevant Requirements: 3.1.2

Primary Actor: User Customer

Pre-Conditions: None

Post-Conditions: there is a new customer account created with set credentials

Basic Flow or Main Scenario:

1. User selects sign up
2. System asks for a username and password and user gives it
3. System checks to make sure email or username is not used
4. If clear user customer now sees customer account

Extensions Or Alternate Flows: after account exists user can log in with account

Exceptions: if email already exists they cannot create another account with the same email.

Related Use Cases: JBA 002

Use Case ID: JBA 002

Use Case Name: Login to system

Relevant Requirements: 3.1.2

Primary Actor: User Customer

Pre-Conditions: None

Post-Conditions: User can view their customer account and use functions

Basic Flow or Main Scenario:

1. User selects to login.
2. System asks for username and password
3. System verifies then shows presents customer account

Extensions Or Alternate Flows: If login failure direct back to login or sign up page

Exceptions: if credentials are incorrect they are not logged in but redirected to sign in

Related Use Cases: JBA 001

Use Case ID: JBA 003

Use Case Name: create bank accounts for customer accounts

Relevant Requirements: 3.1.3

Primary Actor: User Banker

Pre-Conditions: Banker user must be logged in and select a customer account to view then create a bank account for them

Post-Conditions: the customer user account now has a new bank account with generated id and credentials also a debit card

Basic Flow or Main Scenario:

1. Banker is logged in to system
2. System shows list of customer accounts
3. Banker selects a customer account and selects create a bank account for it
4. If allowed there is new bank account with generated attributes for the customer account

Extensions Or Alternate Flows: If login failure direct back to login or sign up page or if there are no customer accounts then do nothing.

Exceptions: if credentials are incorrect they are not logged in but redirected to sign in, also there might be a maximum amount of bank accounts a customer account can have.

Related Use Cases: JBA 004

Use Case ID: JBA 004

Use Case Name: Teller add or withdraw funds from customer bank accounts

Relevant Requirements: 3.1.2

Primary Actor: User Teller

Pre-Conditions: Teller must be logged into system and must be able to view customer account and the bank accounts they own

Post-Conditions: the bank account that was specified under the customer account balance will be affected. Either the balance is less if the customer withdraws money or it goes up if they deposit money

Basic Flow or Main Scenario:

1. Teller is logged into system
2. System shows list of customer accounts
3. Banker selects a customer account and selects the bank account in customer account then selects withdraw or deposit with the amount
4. If the balance is allowed (checked by system) then the balance is affected accordingly

Extensions Or Alternate Flows: If login failure direct back to login or sign up page, there could be a max withdrawal limit or the account balance is less than the requested withdrawal amount

Exceptions: if credentials are incorrect they are not logged in but redirected to sign in

Related Use Cases: JBA 003

Use Case ID: JBA 005

Use Case Name: User Customer withdraw funds from bank account from ATM.

Relevant Requirements: 3.1.4

Primary Actor: User Customer

Pre-conditions: Customer must have a bank account and be logged in.

Post-conditions: Customer successfully withdrew funds from their bank account.

Basic Flow or Main Scenario:

1. Customer selects their bank account from the list of accounts.
2. The system responds by displaying available balance and menu options.
3. Customer selects withdraw and enters the desired amount from the available balance.
4. System dispenses cash to the customer and the account is adjusted accordingly.

Extensions or Alternate Flows:

Exceptions: If User Customer tries to withdraw more than the available balance, throw unable to withdraw error and try again.

Related Use Cases: JBA 002

Use Case ID: JBA 006

Use Case Name: User Customer deposits funds into one of their bank accounts from an ATM.

Relevant Requirements: 3.1.4

Primary Actor: User Customer

Pre-conditions: Customer must have at least one bank account and be logged in.

Post-conditions: Customer successfully deposited funds into their bank account.

Basic Flow or Main Scenario:

1. Customer selects their bank account from the list of accounts.
2. The system responds by displaying available balance and menu options.
3. Customer selects deposit from the menu.
4. Customer enters the amount of the deposit.
5. Customer inserts money into drawers.
6. System accepts money and the account is adjusted accordingly.

Extensions or Alternate Flows:

Exceptions: Failure to login, redirected to log in screen.

Related Use Cases: JBA 005

Use Case ID: JBA 007

Use Case Name: User Banker delete customer bank account.

Relevant Requirements: 3.1.3

Primary Actor: User Banker

Pre-conditions: Banker must have an employee id and be logged in. Customer must have a bank account. Customer must withdraw money from the bank account that is to be deleted.

Post-conditions: Banker successfully deleted customer bank account.

Basic Flow or Main Scenario:

1. Banker locates the customer's bank account with the customer id.
2. The system responds by displaying available balance and menu options.
3. Banker selects delete customer bank account.
4. The system responds by verifying there is a zero balance on the bank account and deletes the bank account.

Extensions or Alternate Flows:

Exceptions: Bank account still has a balance, must withdraw money from the bank account before deleting.

Related Use Cases: JBA 005

Use Case ID: JBA 008

Use Case Name: Customer has no bank account with bank

Relevant Requirements: 3.1.2

Primary Actor: User Customer

Pre-conditions: Customer does not have a bank account with bank, but has user account.

Post-conditions: Customer creates an account with the bank via the banker

Basic Flow or Main Scenario:

1. User signs into bank system with provided credentials
2. System recognizes the user account and shows available accounts, in this case, nothing.
3. User receives prompt from system to sign up for an account via a banker.
4. Banker creates account for user

Extensions or Alternate Flows:

Exceptions: If User Customer does have a user AND a bank account with bank, then proceed as normal with another use case. .

Related Use Cases: JBA 003

Use Case ID: JBA 009

Use Case Name: User Customer withdraw funds from bank account via User Teller.

Relevant Requirements: 3.1.3

Primary Actor: User Teller

Pre-conditions: Customer must have a bank account. Teller must have an account and be logged in.

Post-conditions: Customer successfully withdrew funds from their bank account.

Basic Flow or Main Scenario:

1. Teller receives login credentials from Customer.
2. Teller selects Customer's desired bank account from the list of accounts.
3. The system responds by displaying available balance and menu options.
4. Teller selects withdraw and enters desired amount from available balance.
5. System dispenses cash and Teller hands money to Customer. The account is adjusted accordingly.

Extensions or Alternate Flows:

Exceptions: If User Customer tries to withdraw more than the available balance, throw unable to withdraw error and try again.

Related Use Cases: JBA 002

Use Case ID: JBA 010

Use Case Name: User Customer deposits funds into one of their bank accounts via User Teller.

Relevant Requirements: 3.1.3

Primary Actor: User Teller

Pre-conditions: Customer must have a bank account. Teller must have an account and be logged in.

Post-conditions: Customer successfully deposited funds into their bank account.

Basic Flow or Main Scenario:

1. Teller receives login credentials from Customer.
2. Teller selects Customer's desired bank account from the list of accounts.
3. The system responds by displaying available balance and menu options.
4. Teller selects deposit from the menu.
5. Teller enters the amount of the deposit.
6. Teller receives money from Customer and inserts money into drawers.
7. System accepts money and the account is adjusted accordingly.

Extensions or Alternate Flows:

Exceptions: Failure to login, redirected to log in screen.

Related Use Cases: JBA 005