**MAKK**

**Banking and Money Transfer System**

**Use Case Report**

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Authors** | **Description of Change** | **Sections** | **Rev** | **Date** |
| Maxfield Wilhoite | Initial Use Case Report | All | 0 | 2/13/2018 |
| Alexander Truong | Added additional fields or detailed descriptions regarding account creation, transferring, withdrawing, confirmations, account alerting, bill paying, and card information | 2.2.1, 2.2.5, 2.2.6, 2.2.8, 2.2.9, 2.2.10,  2.2.11, 2.2.12 | 1 | 2/25/2018 |
| Maxfield Wilhoite | Changed use case 2.2.6 to reflect feedback | 2.2.6 | 2 | 2/28/2018 |
| Maxfield  Wilhoite | Updated Use Cases and diagram to reflect changes in class diagram and written requirements. | 2.2.10, Diagram | 3 | 3/13/2018 |
| Maxfield Wilhoite | Updated Use Cases and diagram | 2.2.2, Diagram | 4 | 4/12/2018 |

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# Team Description

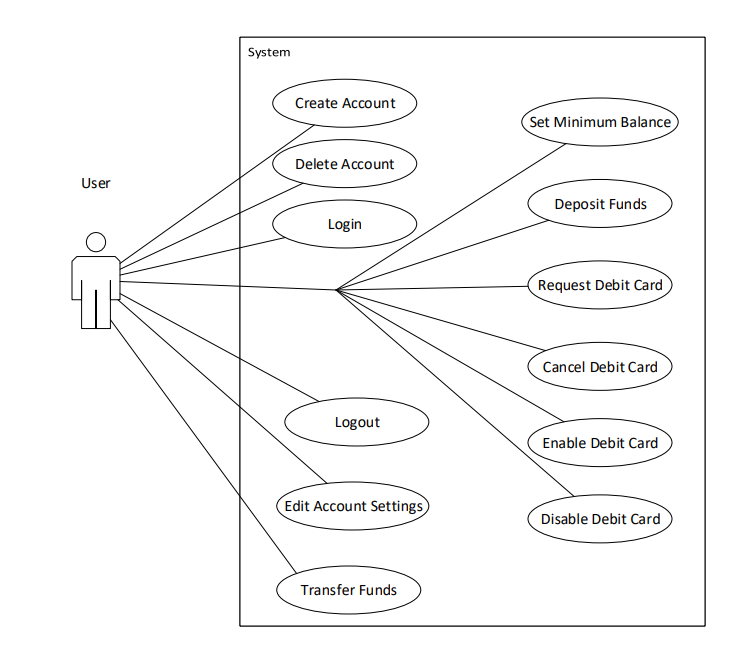
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# Project Description

Statement of Purpose: Develop a secure and free banking program.

Detailed Description: Develop a banking system that allows users to deposit, withdraw, and transfer money with ease. Allow users to obtain debit cards and loans from their account. Our team will implement a user login system, that will allow them to access their bank account and be able to receive and transfer funds between other users.

## Use Case Diagram



## Use Case List

|  |  |  |
| --- | --- | --- |
| **Use Case** | | |
| **Sequence Number** | **Actor** | **Goal** |
| 1 | User | Create Account |
| 2 | User | Delete Account |
| 3 | User | Account Login |
| 4 | User | Account Log Out |
| 5 | User | Edit Account Settings |
| 6 | User | Transfer Funds |
| 7 | User | Set Minimum Balance |
| 8 | User | Deposit Funds |
| 9 | User | Request Debit Card |
| 10 | User | Disable Debit Card |
| 11 | User | Enable Debit Card |
| 12 | User | Cancel Debit Card |

### Create Account

Primary Actor: User

Secondary Actors(s): System

Goal in Context: User creates an account and associates or links a bank account with it.

Preconditions: User has the banking program downloaded.

Additional Description: This is the initial prerequisite that all users must do to use the program.

#### Account Creation Success

The user is successful in creating an account.

#### Account Creation Failure

The user fails to create an account and is prompted to edit the credentials they entered. This could occur if they entered a username that is already in use or they entered an invalid credential (i.e. invalid SSN)

### Delete Account

Primary Actor: User

Secondary Actor(s): System

Goal in Context: User deletes an account

Preconditions: User has no money in balance

Additional Description: The delete account removes an account from the system entirely.

#### Account Deletion Success

The user is successful in deleting their account.

#### Account Deletion Failure

The user is unsuccessful in deleting their account.

### User Login

Primary Actor: User

Secondary Actors(s): System

Goal in Context: The user logs into their account using their login credentials.

Preconditions: The user has an account.

Additional Description: The user enters their username and password into the program, when prompted, allowing them access to their bank account.

#### Login Success

The user successfully logs in granting them access to their account.

#### Login Failure

The user fails to provide the correct user login information and is not given access to that account.

### User Log Out

Primary Actor: User

Secondary Actors(s): System

Goal in Context: The user logs out of their account.

Preconditions: The user is logged in

Additional Description: The user selects the option to log out of their account disconnecting usage of the account.

#### Successful Log Out

The user is successfully logged out of their account.

### Edit Account Settings

Primary Actor: User

Secondary Actors(s): System

Goal in Context: The user can edit their personal settings.

Preconditions: The user is logged into their account.

Additional Description: The user can change their linked email or password for their account.

#### Account Settings Change Success

The user is successful in editing their account settings.

#### Account Settings Change Failure

The user is unsuccessful in changing their account settings. This could occur from invalid credentials entered (entering an invalid email address)

### Transfer Funds

Primary Actor: User

Secondary Actors(s): System

Goal in Context: The user can transfer funds from their account to another user of the system.

Preconditions: The user is logged in and has enough money in their account to make the transfer.

Additional Description: The user enters the person who they want to transfer funds to, then selects how much they would like to transfer. The system then withdraws the money from their account and sends it to the entered person.

#### Transfer Funds Successful

The user successfully transfers funds from their account.

#### Transfer Funds Failure – Funds

The user is unable to transfer funds with the amount of funds they entered to transfer.

#### Transfer Funds Failure – Recipient

The user is unable to transfer funds to the person they entered to transfer funds to.

#### Transfer Funds Failure – Minimum Balance

The user is unable to transfer funds if the person attempts to transfer funds more than their minimum balance.

#### Transfer Funds Failure – Limit

The user is unable to transfer funds if the amount entered exceeds the transfer limit.

### Set Minimum Balance

Primary Actor: User

Secondary Actors(s): System

Goal in Context: The user can place a limit on the minimum balance of their account.

Preconditions: The user is logged in and has more money in their account than the limit amount.

Additional Description: The user enters the amount of money they wish to set as the minimum amount of money in their account.

#### Set Minimum Balance Success

The user successfully sets the minimum balance of their account.

#### Set Minimum Balance Failure

The user is unable to set the withdraw limit to the entered amount.

### Deposit Funds

Primary Actor: User

Secondary Actors(s): System

Goal in Context: The user deposits funds into their account.

Preconditions: The user is logged in.

Additional Description: The user deposits funds into their account with a debit or credit card.

#### Deposit Funds Success

The user successfully deposits funds into their account.

#### Deposit Funds Failure

The user unsuccessfully deposits funds into their account. This occurs with invalid information.

### Request Debit Card

Primary Actor: User

Secondary Actors(s): System

Goal in Context: The user requests a debit card to be sent to them.

Preconditions: The user is logged in.

Additional Description: The user enters their mailing address and then receives a debit card in the mail.

#### Request Debit Card Success

The user requests a debit card and is sent one.

#### Request Debit Card Failure

The user is unable to request a debit card. They already have the allotted number of cards or their account information is incorrect.

### Disable Debit Card

Primary Actor: User

Secondary Actors(s): System

Goal in Context: The user temporarily disables the use of a debit card.

Preconditions: The user is logged in and has a debit card

Additional Description: The user selects to disable a debit card, making no purchases possible with that card.

#### Disable Debit Card Success

The user successfully disables their debit card.

#### Disable Debit Card Failure

The user does not have a debit card and thus can not disable it. The debit card is already disabled and cannot be disabled again.

### Enable Debit Card

Primary Actor: User

Secondary Actors(s): System

Goal in Context: The user enables their disabled debit card.

Preconditions: The user is logged in and has a debit card disabled.

Additional Description: The user selects the disabled card to enable allowing purchases to be made with that card.

#### Enable Debit Card Success

The user is successful in enabling their disabled debit card.

#### Enable Debit Card Failure

The user is unable to enable their debit card. This occurs when there is no disabled debit card.

### Cancel Debit Card

Primary Actor: User

Secondary Actors(s): System

Goal in Context: The user cancels the use of a debit card.

Preconditions: The user is logged in and has a debit card.

Additional Description: The user cancels the use of the debit card disabling the card permanently.

#### Cancel Debit Card Success

The user successfully cancels the debit card.