**MAKK**

**Banking and Money Transfer System**

**Written Requirements**

**Revision History**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Authors** | **Description of Change** | **Sections** | **Rev** | **Date** |
| Alexander Truong | Initial Written Requirements | All | 0 | 2/27/18 |
| Alexander Truong | Deleted section 3.2.3, revised section 3.6 for better clarification and deleted unnecessary terms | Terms,  3.2.3,  3.6 | 1 | 3/06/18 |
| Alexander Truong | Deleted Pay Bills requirements section and added Enable Debit Card, Debit Card Cancellation, Request Debit Card, User Log In, and User Log Out requirements | 3.3, 3.4, 3.8, 3.9, 3.10 | 2 | 3/12/18 |
| Alexander Truong | Fixed, revised, and clarified sections according to team members’ reviews | Terms, 3.1, 3.5, 3.8.1, 3.11 | 3 | 3/14/18 |
| Maxfield Wilhoite | Added Professor Graham’s Suggestions | 3.1, 3.3, 3.3.1, 3.5, 3.5.1, 3.6 | 4 | 4/02/18 |
| Kiren Syed | Revised and clarified sections according to other teams’ reviews, added Professor Graham’s suggestions | Contents, All 3.x | 5 | 4/02/18 |

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# Team Description

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# Terminology

The following table defined terms used within this document.

|  |  |
| --- | --- |
| **Term** | **Definition** |
| Account | Record and description of the user’s personal information; the user creates an alias to log into to deposit or transfer funds |
| Activation | Turn on; allows something to be used |
| Banking System | Electronic bank where users can deposit their funds to or transfer their funds from |
| Deactivation | Turn off; does not allow something to be used |
| Deposit Funds | Funds the user puts into the banking system to be kept |
| Recipient | The person who is presented with the funds transferred from the user |
| Successful | When a requirement has been fulfilled |
| Transfer Funds | Moving funds from one place to another |
| Unsuccessful | When a requirement has not been fulfilled |
| User | The person who is using the application; the consumer |

# Banking and Money Transfer System

${"#section":{"features":["News Reader Installed"]}}$

## Overview

The Online Banking System Program allows the user to deposit and transfer funds between a linked account or transfer funds to another user, as well as create and use debit cards. This system allows the user to perform the following actions:

* Account Creation
* User Login
* User Log Out
* Edit Account Information
* Transfer Funds from Account
* Deposit Funds into Account
* Debit Card Request
* Enable Debit Card
* Debit Card Cancellation
* Display Alerts

## Account Creation

The system **shall** support creation of accounts for users to deposit or transfer funds when all the following mandatory fields have been entered:

### Personal Information

* First and Last Name RID – 0001
* Street Address RID – 0002
* City RID – 0003
* Zip Code RID – 0004
* Email Address RID – 0005
* Social Security Number RID – 0006
* Account User Name RID – 0007
* Valid Password RID – 0008

### Password Created

The user provides a password that is at least 4 alpha-numeric characters long, contains at least one digit, and has at least 3 alphabet characters.

## User Login

The system **shall** allow users to log into their account when the user inputs their account user name and their password correctly.

## User Log Out

The system **shall** allow users to log out of their actively signed-in account when one of the following conditions are met:

### Logout

The user prompts the system to log themselves out of their account.

### Close Program

The user closes the program while the user is still logged into the system.

## Edit Account Information

The system **shall** allow users to edit their address or password when the user is logged in and inputs their password again correctly.

## Transfer Funds to Account

The system **shall** allow users to transfer a specified amount of funds to another account when all the following conditions are met:

### Enter Recipient

The user enters a recipient to transfer funds to.

### Enter Fund Amount

The user specifies an amount of funds to transfer the funds to the recipient.

### Fund Amount Does Not Exceed Amount of Funds in Account

The user specifies an amount of funds that does not exceed the total amount they have in their account while transferring.

## Deposit Funds into Account

The system **shall** allow users to deposit funds into their account when all the following conditions are met:

### Debit Card Deposit

The user enters their name, fund amount, and debit card’s 16-digit number to deposit funds into their account.

### Debit Card Activated

The user’s debit card is active and can be used, not in disabled or cancelled state.

## Debit Card Request

The system **shall** allow users to request a new, deactivated debit card for their account when all the following conditions are met:

### Address is Registered in Account

The user provides an address that is associated with the account where the card can be sent to.

### Debit Card Limit Not Exceeded

The user does not have the maximum number of two debit cards allowed for their account.

## Enable Debit Card

The system **shall** allow users to enable an inactivated debit card when the following conditions is met:

### Debit Card Number Correctly Entered

The user activates the debit card using the 16-digit number located on the debit card

## Debit Card Cancellation

The system **shall** allow users to cancel a debit card for their account when the following condition is met:

### User Requests Cancellation

The user has contacted personnel to cancel or has sent a request of cancellation to the system from the banking application to cancel their debit card.

## Display Alerts

The system **shall** present notifications to the user when any of the following conditions are met:

### Unsuccessful Deposit

RID – 1001: Funds are unable to deposit into their account.

### Successful Transfer

RID – 1002: Funds successfully sent to the recipient the user has entered to transferred funds to.

### Unsuccessful Transfer

RID – 1003: Funds are unable to transfer to the recipient the user has entered to transfer the funds to due to insufficient funds or a non-existent transferee.

### Unsuccessful Login

RID – 1004: Login attempt to their account has failed.

### Account Information Changes

RID – 1005: Changes to their account have been made.

### Debit Card Request

RID – 1006: Debit card has been requested.

### Debit Card Activation

RID – 1007: Debit card has been activated.

### Debit Card Deactivation

RID – 1008: Debit card has been deactivated.

### Debit Card Cancelled

RID – 1009: Debit card has been cancelled.

### Debit Card Limit Reached

RID – 1010: Attempt to request a debit card failed because their debit card limit has been reached.