**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 |
| Maxfield Wilhoite | Added RIDs | All | 6 | 4/03/18 |

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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 – 0201
* Street Address RID – 0202
* City RID – 0203
* Zip Code RID – 0204
* Email Address RID – 0205
* Social Security Number RID – 0206
* Account User Name RID – 0207
* Valid Password RID – 0208

### Password Created

RID – 0209: 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

RID – 0301: 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

RID – 0401: The user prompts the system to log themselves out of their account.

### Close Program

RID – 0402: The user closes the program while the user is still logged into the system.

## Edit Account Information

RID – 0501: 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

RID – 0601: The user enters a recipient to transfer funds to.

### Enter Fund Amount

RID – 0602: The user specifies an amount of funds to transfer the funds to the recipient.

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

RID – 0603: 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

RID – 0701: The user enters their name, fund amount, and debit card’s 16-digit number to deposit funds into their account.

### Debit Card Activated

RID – 0702: 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

RID – 0801: The user provides an address that is associated with the account where the card can be sent to.

### Debit Card Limit Not Exceeded

RID – 0802: 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

RID – 0901: 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

RID – 1001: 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 – 1101: Funds are unable to deposit into their account.

### Successful Transfer

RID – 1102: Funds successfully sent to the recipient the user has entered to transferred funds to.

### Unsuccessful Transfer

RID – 1103: 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 – 1104: Login attempt to their account has failed.

### Account Information Changes

RID – 1105: Changes to their account have been made.

### Debit Card Request

RID – 1106: Debit card has been requested.

### Debit Card Activation

RID – 1107: Debit card has been activated.

### Debit Card Deactivation

RID – 1108: Debit card has been deactivated.

### Debit Card Cancelled

RID – 1109: Debit card has been cancelled.

### Debit Card Limit Reached

RID – 1110: Attempt to request a debit card failed because their debit card limit has been reached.