SOFTWARE REQUIREMENT SPECIFICATION(SRS) BANKING SYSTEM



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REVISION HISTORY

DATE	REVISION	DESCRIPTION	AUTHOR
02/21/22	1.0	Initial version	Khalil cato
02/28/22	1.5	reformated	Khalil cato
3/1/22	2.0	Second version	Khalil cato

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1. Purpose

The purpose of the documentation is to give a detailed explanation of the banking system. This document will explain how the features, interface, and constraints will react to user interaction.

1.1. Scope

The scope of the document will explain the banking system the requirements for the system, as well the use cases for user interaction with system interface, feature, and system constraints

1.2. Definitions, Acronyms, Abbreviations

Credit card/debit card	These cards allow the customer to access and use money from their accounts for payment. The cards additionally allow access to the users Account with
Account teller	The bank staff that is in charge if providing information, assisting and managing of customers accounts
Customer	Anyone with an account with the bank
Bank features	All the benefits that the bank provides such as account creation, withdrawing, deposits, etc

1.3. References

1.) Use cases:

https://github.com/jamescazares999/BankingSystem/blob/main/UseCaseDocs.pdf

2.) Use case diagram:

https://github.com/jamescazares999/BankingSystem/blob/main/Bank%20system%20diagrams%20Use%20Case-2.pdf

2.)Teller client sequence:

https://github.com/jamescazares999/BankingSystem/blob/main/Teller.drawio.pdf

3.)ATM sequence

https://github.com/jamescazares999/BankingSystem/blob/main/ATM.drawio.pdf

1.4. Overview

The planned banking system that will be installed will be designed to allow for communication and interaction between branches, employees, ATMS, and customers. This system will show external users with the ability to use a debit/credit can transfer, create, with draw, deposit,

2. Overall Description

2..1. Product Perspective

The banking system will be designed to allow customers

2.2. Product Functionality/Features

The high-level features of the system are as follows (see section 3 of this document for more detailed requirements that address these features):

Record history

 Transactions, money transfers, and deposits will be recorded and logged into the system for bank staff to access.

Balance Transfer

- The system will allow for money to be transferred to and from the balance of the customer.

ATM Access

 Users will be able to freely access their account from an ATM with credit/debit card and be able to check, withdraw money in increments of \$20 and deposit checks into their account.

Bank staff/teller

 Bank staff will be able to withdraw,deposit, cash checks, open as many accounts as the customer wants, and be able to close or freeze accounts

2.3. Constraints

- Users accessing accounts through ATM can only withdraw, deposit, and check balance

- Each user of the system will be able to perform critical transactions using the system only upon approval from the bank employees.
- Bank teller users will be able to perform modify the user accounts with permissions from the individual customers and higher up administrators.

2.4. Assumptions and Dependencies

- The banking system is intended to run on computer devices owned by the bank.
- The ATM and bank teller will only handle be able to handle one customer at a time
- The

3. Specific Requirements

3.1. Functional Requirements

The Services that will be provided by the system will be the ATM interface and Bank teller

3.1.1 Bank teller

- User is responsible for low priority transactions.
- Users can view, create, modify, delete and authorize transactions upon having necessary authorization from the customer.
- User can create new accounts with authorization from customer
- User will be capable of freezing accounts when given permission by higher ups
- User does not have access privilege to view or modify any user account unless he/she has been authorized to do so.
- Users can access transactions with necessary authorization from users/merchants or system administrators.

3.1.2 ATM

- Users can Access account with pin and card
- Users will be able to check their balance for the account
- Users will be able to deposit currency into their account account via cash or
- Users will be able to withdraw money their from both savings and checkings account

3.2. External Interface Requirements

3.2.1. ATM Login View

- Pin text field [prompts user to insert pin then press login
- Prompts user to select choice
- Show checking withdraw and deposit option
- Show savings withdraw and deposit options
 - If withdraw is chosen give user the choice of how much they wish to withdraw

3.2.2. Regular Employee

- List of pending transaction pool in the form of table
- View and edit external user and merchant's account information. Some of the fields will be editable based on the external user authorization

- List of pending account update requests
- New bank account creation request option for an external user (with manager's approval)
- Logout button

3.3. Internal Interface Requirements

3.3.1 ATM

- The system will process data from the ATM/Teller terminal so that customer accounts are updated within the system. The system will display this interaction in the form of a comma separated interface that will be updated anytime there is a change to the customer's account balance.

3.3.2 Bank teller

- The system will process any new data from the Teller terminal that contains new accounts. The system will display this interaction in the form of a comma separated interface that will be updated if the customer creates a new account or an existing customer creates a new account.

4. Non-Functional Requirements

4.1. Security and safety

- The system will identify a valid Customer by ensuring bank details add up with bank details and password/pin.
- Customers will be notified of any fraudulent activity with their account.
- If the customer does not recognize any of the transaction or activity the account will be frozen to prevent any further damage and authorities will be notified

4.2 Environmental Requirements

The bank system must utilize the following environment setting to utilize the system

- Minimum operating system: Windows 7
- Preferred operating system: Windows 10 and above
- Stable internet connection for connection between branches and ATMs
- A java and gui interface embedded into bank computers and ATMS

4.3 Performance Requirements

4.3.1 Computer hardware requirements

The hardware required to host the server are

RAM : 512MbHard Drive: 10GBProcessor: 2GHZ

- Internet Bandwidth: 1Mbps

Additionally The system must display the ATM and Teller interface in 10 seconds or less. Transitions to new pages must occur in less than 3 seconds