

Bank UP

Software Requirements Specification

For Main App

Version 0.0

Revision History

Date	Version	Description	Author
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Software Requirements Specification

1. Introduction

1.1 Purpose

This document describes the behavior and requirements of the Bank UP app.

1.2 Scope

Allow all clients in Bank UP to make transactions between them.

1.3 Overview

In the following sections, all the requirements of the software will be described and additional information will be provided.

2. Overall Description

The Bank UP app will work as a way for the bank clients to transfer money from their accounts to another client account. Every client will be able to check their account balance, transaction history and make transactions with other registered clients user-friendly interface.

3. Specific Requirements

3.1 Functionality

3.1.1 Login

The clients can access their account using their user and password.

3.1.2 Money transfer

The app will allow clients to transfer money from their accounts to another client account, defining the transfer quantity and account number.

3.1.3 Account balance

The client can consult the money in their account and all the previous transactions they made.

3.1.4 Validations

Before every transaction, the money in the account and the account number to which it will be transferred have to be validated.

3.2 Usability

3.2.1 User-friendly interface

The system should have a user-friendly interface that is easy to navigate.

3.2.2 Guidance

The system should provide clear and concise instructions to guide users through the transfer process.

3.2.3 Feedback

The system should provide feedback to users on the status of their transfers, such as successful or failed.

3.3 Reliability

3.3.1 Data integrity

The system should be able to handle concurrent transactions without any data integrity issues.

3.3.2 Error handling

The system should be able to quickly recover from any unexpected errors or system failures.

3.3.3 Security and privacy

The system should have appropriate security measures in place to prevent unauthorized access and protect user data.

3.4 Performance

3.4.1 Transfer requests.

The system should be able to process transfer requests quickly and efficiently.

3.4.2 Transactions volume.

The system should be able to handle a high volume of transactions without significant performance degradation.

3.4.3 Response time.

The system should have a response time of no more than 3 seconds for any user request.

3.5 Supportability

3.5.1 Structure

The system should be modular and scalable, allowing for easy maintenance and future enhancements.

3.5.2 Logging

The system should provide error logs and diagnostic tools to help support personnel troubleshoot and resolve any issues.

3.6 Design Constraints

3.6.1 Language

The software will be developed using React.

3.6.2 Database

The software will use a MongoDB database.

3.6.3 Hosting

The software will be hosted in Azure.

3.7 Interfaces

3.7.1 User Interfaces

3.7.1.1 Login screen.

Two text fields (user and password) and a button.

3.7.1.2 Money transfer screen.

Two numeric fields (transfer quantity and account number) and two buttons (confirm and cancel).

3.7.1.3 Account screen (main screen).

A dynamic label with the money available in the client's account, a list with all the previous transfers with the account number and transfer quantity and two buttons (logout and transfer).

3.7.2 Software Interfaces

3.7.2.1 Database.

All the clients and transaction information is stored in a database.

4. Supporting Information

4.1 Currency.

The currency used in the bank is the Mexican peso.

4.2 Maximum money in account.

The maximum amount of money an account can have is 20,000 Mexican pesos.

4.3 Money transfer range.

The minimum amount of money that can be transferred is 100 Mexican pesos and the maximum amount is 7000 Mexican pesos.

4.4 User information.

The stored information of a client includes: name, last name, account number, money in their account.

4.5 Username format.

The client's username can only have alphanumeric characters.

4.5 Password format.

The client's password can have any type of character. It doesn't need to be encrypted in the

database (minimum length?).

4.5 Account number format.

The client's account number can only have numeric values (length?).