Software Requirements Specification

For

Commerce Bank Web Application

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Version 1

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Revision History

| **Version** | **Date** | **Name** | **Description** |
| --- | --- | --- | --- |
| 1 | 09/14/21 | Team | Initial Document |
|  |  |  |  |

# **Introduction**

## ***Overview***

The Commerce Bank application will be a web application that pulls in transaction details from csv files and allows the user to set triggers for notification rules and receive notifications around them. The system will also save data to a database to allow recurring reports to be created.

This document provides information on the requirements for the Commerce Bank web application. Project goals, scope and definitions are given in the introduction. Design constraints and application environment are described in the following section. Non-functional requirements are outlined for later verification. Functional requirements are given to show the system features and expected user interaction.

Project constraints will be included in separate documentation. The Software Project Management Plan will give specifics on project budget and schedule. A separate Test Plan document will address test specifications and procedures.

## ***Goals and Objectives***

The main objective of this project is to allow customers to access their Commerce Bank account information from anywhere. The application is expected to:

1. Verify account balances
2. Display recent transactions
3. Allow users to change notification settings/triggers
4. Contact Customer Support

5. Function in a simple and intuitive manner.

## ***Scope***

The Commerce Bank web application will provide users with the ability to access their transaction details and allow the users to set triggers for notification rules. This will allow them to receive notifications via email or text about specified transactions. The system should also save data to a database so recurring reports can be created and also allow users to manually input transactions as needed.

## ***Definitions***

**Commerce Bank Web Application** – the product that is being described here; the software system specified in this document.

**Project** – activities that will lead to the production of the Commerce Bank web application.

**Client** – the person or organization for which this Commerce Bank web application is being built.

**User** – the person or persons who will actually interact with the Commerce Bank web application.

**Use case** – a goal-oriented interaction between the system and an actor. A use case may define several variants called scenarios that result in different paths through the use case and usually different outcomes.

**Scenario** – one path through a use case

**Actor** – user or other software system that receives value from a user case.

**Developer** – the person or organization developing the system, also sometimes called the supplier.

**Stakeholder** – anyone with an interest in the project and its outcomes. This includes clients, customers, users, developers, testers, managers and executives.

# **General Design Constraints**

## Commerce Bank Web ***Application Environment***

The Commerce Bank product will include a web application designed to work on an internet browser. This application will be built using the ASP.NET framework and deployed into a windows server or cloud instance.





## ***User Characteristics***

**Users**: Customers that are affiliated with Commerce bank

## ***Mandated Constraint***The application will run on an internet browser. This platform was chosen based on experience with Objective-C and team consensus.

# **Nonfunctional Requirements**

## ***Operational Requirements***

Usability: This application will be designed so that anyone, regardless of technical level, will be able to understand and use the website.

## ***Performance Requirements***

Maintainability: Changes made to the Commerce Bank transaction website can be adopted without altering the web browser.

## ***Security Requirements***

The Commerce Bank web application has one feature. For Use Case 1 (see section 4), Commerce Bank account security is provided by secure login to the website. Login information input via the web browser will not be stored.

Security is further protected from outside forces with the use of ASP.NET and obfuscation.

## ***Documentation and Training***

The Commerce Bank web application will be delivered to users as a website without documentation or training. A user guide and system documentation will be provided to project stakeholders.

## ***External Interface***

### **User Interface**

The user interface will be eye-catching and visually appealing. When users access their Commerce bank accounts, the interface will provide a smooth transition with the Commerce bank website which has a straightforward, understated look and feel.

The interface will be intuitive. As a web application it will be streamlined and simple to use. No training will be provided and it is expected that 95% of users will be able to use the app without any training.

### **Software Interface**

The Commerce bank application will be on a proxy server and will serve as an interface between the web browser and Commerce Bank website. It will enable interaction between the user and the remote website.

# **Functional Requirements**

## ***Required Features***

### **Use Case: 1**

**Description: User Login**

Actors: Commerce bank user

Value = high

Cost = high

Basic Path

1. User clicks icon for Commerce Bank
2. System prompts user to select an option: enter credentials for username and password
3. User enters correct credentials
4. System displays account balance, recent transactions, options to logoff
5. User clicks Logoff.
6. System exits.

Alternate Path

1. User clicks icon for Commerce Bank
2. System prompts the user to select an option: enter credentials for username and password
3. User enters an incorrect user e-mail and/or password and clicks Login.
4. System displays error message: “Invalid Email Address and / or Password for user@wrongaddress.com ..... Or you may have exceeded the number of consecutive attempts allowed. Please try again later.”
5. The user can choose to login again, returning to step 1, or exit.
6. System exits.

### **Use Case: 2**

**Description: Setting The Notifications**

Actors: Commerce bank user

Value = high

Cost = medium

Basic Path

1. User clicks icon for notifications
2. System prompts user to select an options: transactional update, security alerts, account updates, banking communications
3. User clicks transactional update, security alerts for notifications
4. System enables notifications for transactions and security alerts
5. User clicks log off
6. System exits.

## ***Optional Features***

### **Use Case: 3**

**Description: Check Recent Transactions**

Actors: Commerce Bank user

Value = medium

Cost = high

Basic Path

1. Following Login [Use Case 1 Step 6]: System displays Account Summary with balance and options to logoff or view transactions.
2. User clicks View Transactions.
3. System displays recent transactions with the option to logoff.
4. User clicks Logoff.
5. System exits.