

SOFTWARE ENGINEERING CAPSTONE

COMMERCE BANK

Test Plan

Team VIT

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1 Introduction

E-banking (Internet Banking) enables clients to conduct virtual banking and financial transactions online in a safe and secure manner. It entails the distribution of banking goods and services through the internet that which makes the easy and secure transactions. Hence we are aiming to develop Commerce bank transactions application. This is mainly implemented to follow up the transactions done through the banks and provide the notifications related to the transactions.

Initially customer will register with a particular bank with their particulars (name, email id, password and phone number) and with the initial amount to open the account. Once after registration, customer can login into their account and can check the transactions history and also make the transactions. Customer will be notified with the email during their transactions. The notifications are based on the purpose of transaction, time and location (Local and non-local). If the customer forgets password, they can request for change of the password.

The testing activities discussed in this document will verify that the software for the Commerce bank system meets the needs of the customer by verifying that the requirements for this system, as outlined in the Requirements Document, are met.

The testing routine will test the user details validation in login and registration page and making the new transactions.

2 Terminology

Throughout this document the terms user, Customer, system, site will be used frequently therefore, formal definitions will be given.

System: The database and bulletin board that supports the back-end of the website.

User: People who will exclusively use only the front-end of the website.

Customer: Commerce Bank.

Site: the front-end website

3 Items Tested

1. Ability for a user to register via account number

Test Case: 1.1

2. Ability for a user to login via customer ID, email, Password.

Test Case: 1.2

3. Ability for a user to make a new transaction

Test Case: 1.3

4. Ability for a user to download a transaction history in CSV file.

Test Case: 1.4

4 Approach

The overall method to this testing procedure is manual system testing. Each test case created will have a direct link to the requirements as laid out in the Requirements Document. Test cases that include similar Feature methods will be tested together. Test cases such as these test the security features of the system along with the ability to submit information to the database. Each test case will test the security feature with invalid and valid data (usernames and passwords) to ensure that user requirement of valid users for these features is met.

Manual system testing will continue throughout the second and third iteration of the project. For each iteration, both old and newly implemented features will be tested. Adding new features or functionality can sometimes interfere with the functionality of old features and to ensure product/project success, all features implemented should function as intended throughout the life of the software.

5 Item Pass/Fail Criteria

The minimum requirements for this software system were laid out in the Requirements Document and the Macro Project Plan outlined what the creators of the software considered project success.

Implemented features that meet the requirements as determined by the customer, meaning the feature does what the user wants it to do with very little difficulty, passes the testing procedure. Difficulty, as used here, is determined by user comprehension and user ability to use the feature with little to no training.

Features that contain major defects will fail the testing procedure and will be documented via an incident report and turned over to the developer for investigation and revision.

6 Test Deliverable

In addition to the Test Plan, other test deliverable include the Test Specification which outlines the specific test cases and expected results of each test, and Test reports which is comprised of Incidents, Defects and Changes.

7 Test Tasks

The following list the testing deliverable and the activities required to produce the deliverable.

Deliverable	Activities
Test Plan	Analyze Requirements for System Features, Determine Testable/Non-Testable Features, Develop Approach/Method for testing, Determine Task and Estimate Efforts, Develop Schedule for Testing
Test Specifications	Analyze Requirements, Define Test Cases for Testable Features as Outlined by the Test Plan
Test Reports	Implement Test Cases as Outlined by the Test Specifications, Document Incidents and Defects, Determine Severity of Incidents and Defects, Determine Changes that Need to be Made to System, Document and Submit Change Request to Developer