ATM Projest Test Report

Hossain Md Rubayet

201853082055

1)Introduction

1.1 Purpose

Through writing this test report, it is expected to verify and validate that each unit in the software works as intended/designed by the developer. This test report is a document that records data obtained from the test, describes the environmental or operating conditions, and shows the comparison of test results with test objectives.

1.2 Background

This document is the software test report of banking software development project designed by Alisher Marviev. It contains the results of tests, which were executed during the testing.

1.3 Definition

PIN: Personal Identification Number.

Accounts list: Records all registered customer's accounts, not including the clerk's account.

1.4 Reference

From internet

And E-book

2)Test Overview

2.1 Test Object

The test object for the unit testing is a simple banking application. Made and designed using NetBeans IDE 8.2 software in Java language and it uses Java DB as the databases.

2.2 Test Methods

The method used in this test is called the white box testing (also known as Clear Box Testing, Open Box Testing, Glass Box Testing, Transparent Box Testing, Code-Based Testing or Structural Testing). This method is named so because in the eyes of the tester, the software program is like a white/transparent box, where one can see clearly what's inside.

White box testing is a software testing method in which the internal structure/design/implementation of the item being tested is known to the tester [2]. The tester, usually a developer as well, chooses inputs to traverse the paths of the code and determines the appropriate outputs. Knowledge of programming and implementation is essential. White box testing is testing beyond the user interface and into the nitty-gritty of a system.

One of the advantage of using white box testing is the test is more comprehensive and can cover most paths. But because the testing can be very complex, it requires highly skilled resources and sufficient programming and implementation knowledge.

Definition by ISTQB (International Software Testing Qualifications Board):

- White-box testing: Testing based on an analysis of the internal structure of the component or system.
- White-box test design technique: Procedure to derive and/or select test cases based on an analysis of the internal structure of a component or system.

2.3 Test Constraint

The overall test constraints for this test are listed below:

1. The test report is based on the tested software version.
2. All tests are based on the same test environment as the development environment (including the operating system, database, and etc.);

2.4 Testers

The tester is also the author of this document and the developer of this project.

3)Test Environment

3.1 Test Hardware Environment

Test Environment	Device	Processor	System Type	Memory	External Storage
Host development environment	Laptop computer	Intel Core i3	64-bit Operating System, x64-based processor	4GB	None

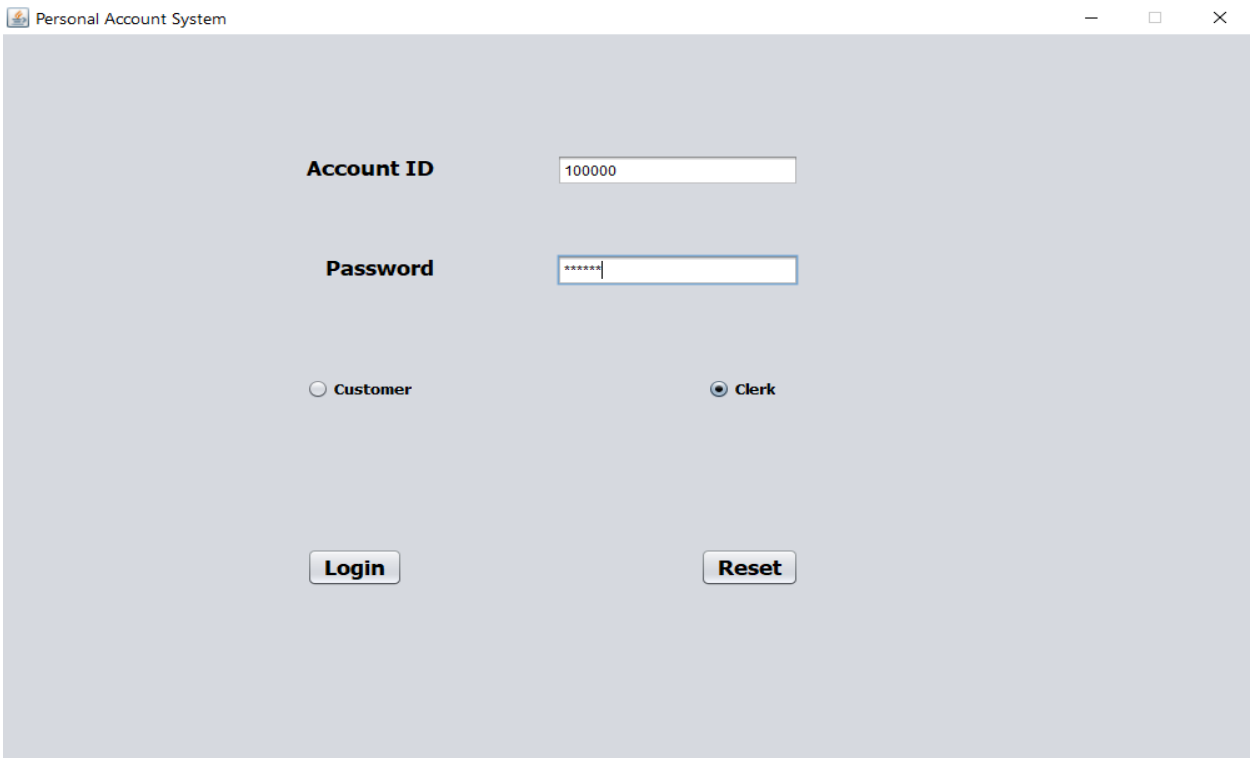
Table 1 Test hardware environment

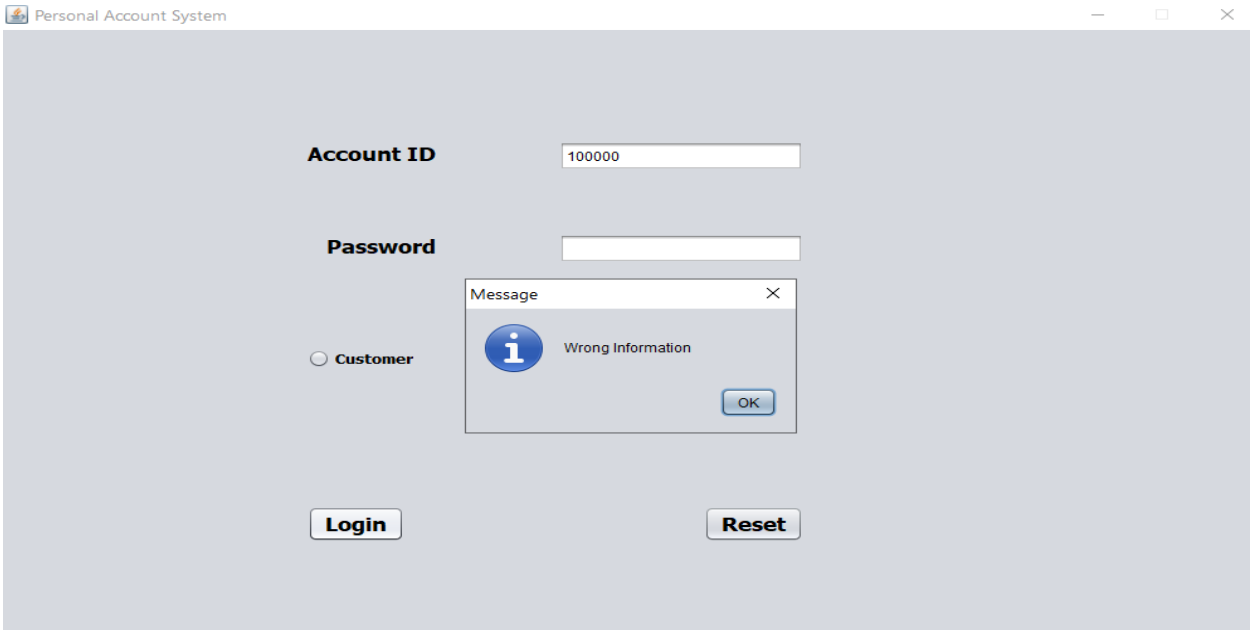
3.2 Test Software Environment

Software	Product Name
Operating System	Windows
Programming Language	Java
Software Development Environment	Java version "1.8.0_251" Java(TM) SE Runtime Environment (build 1.8.0_241-b07)
Database	Java DB

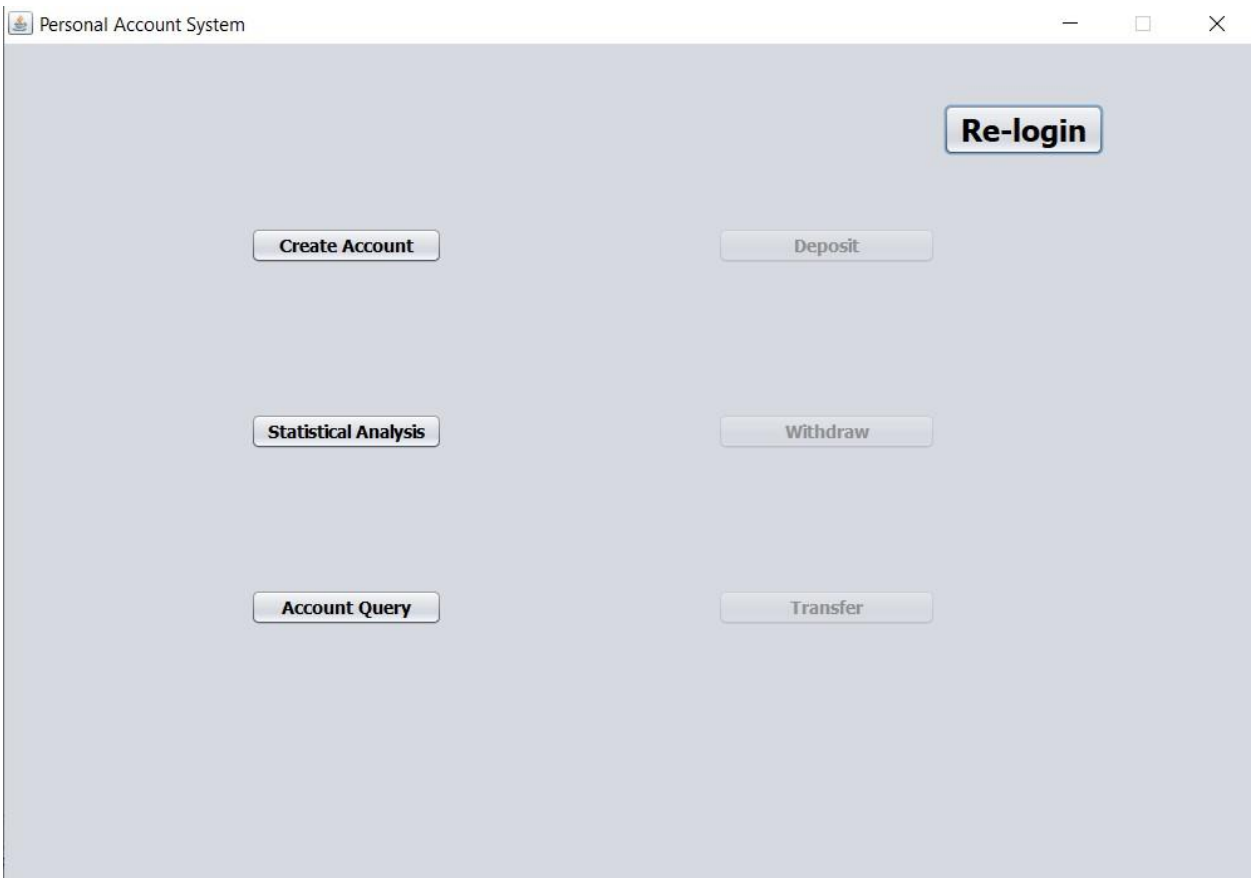
Test software environment

Login with password test

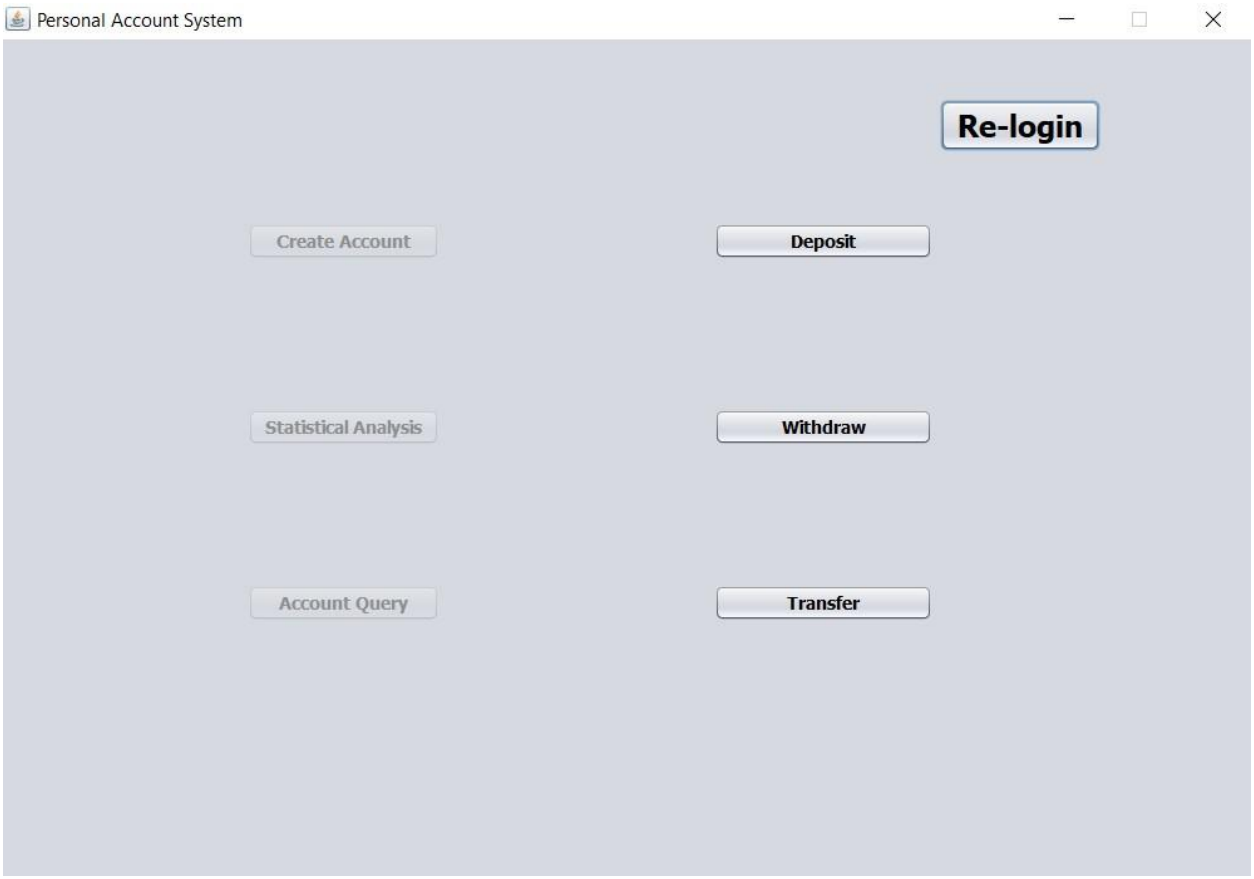




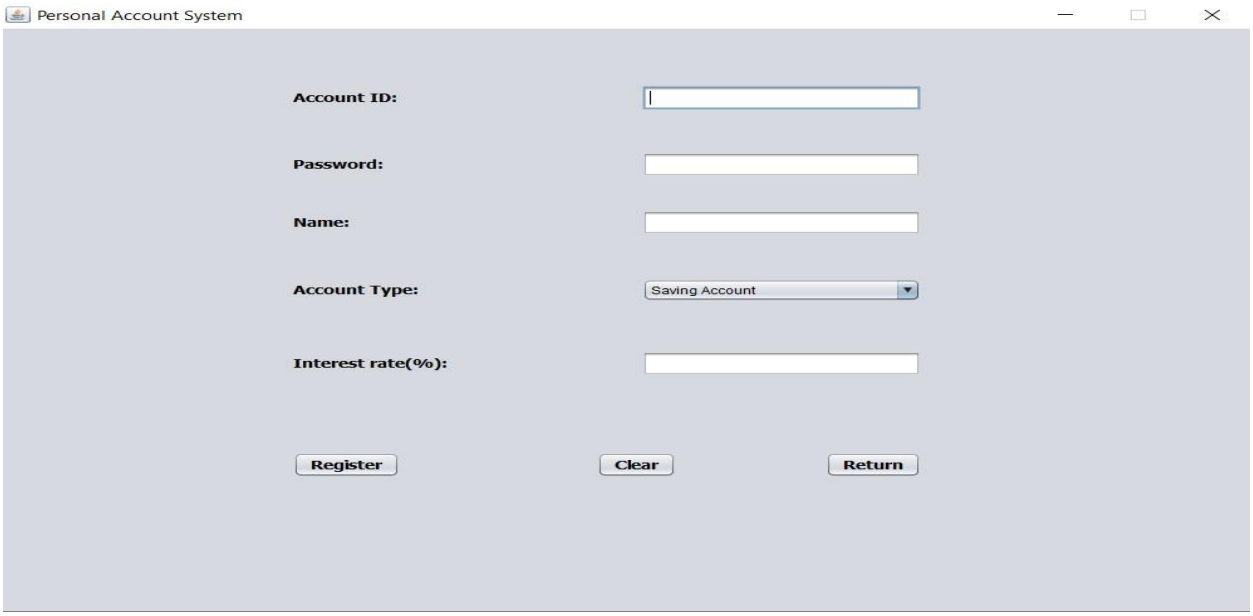
Clerk Menu test



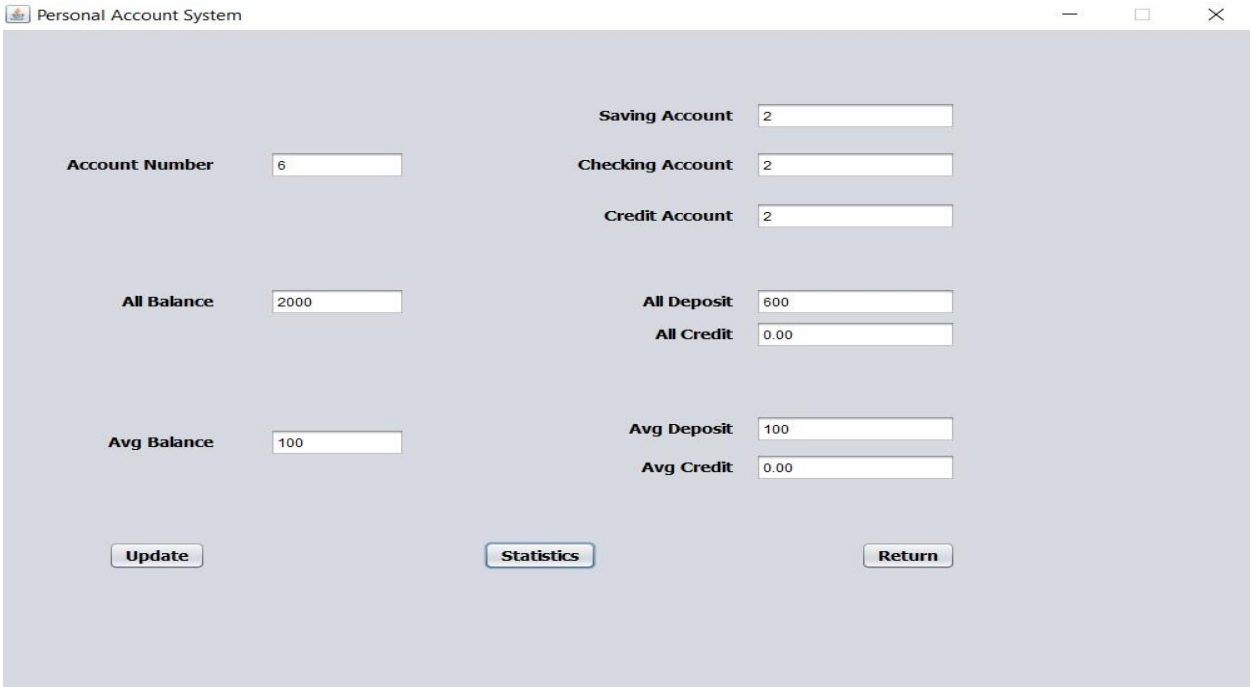
Customer menu test



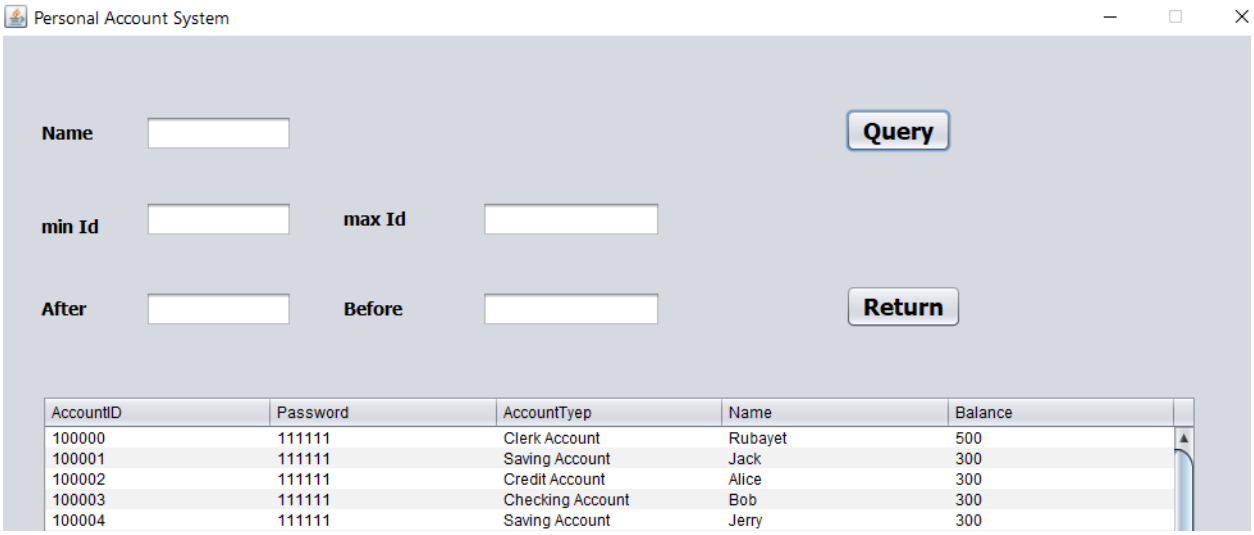
Create Account test



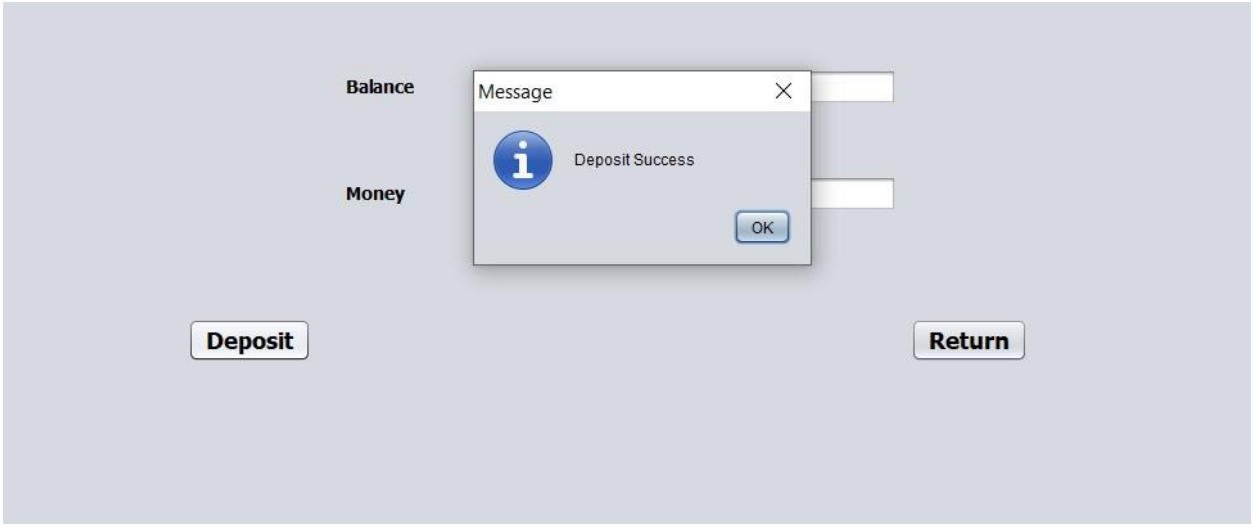
Statistics Update Test



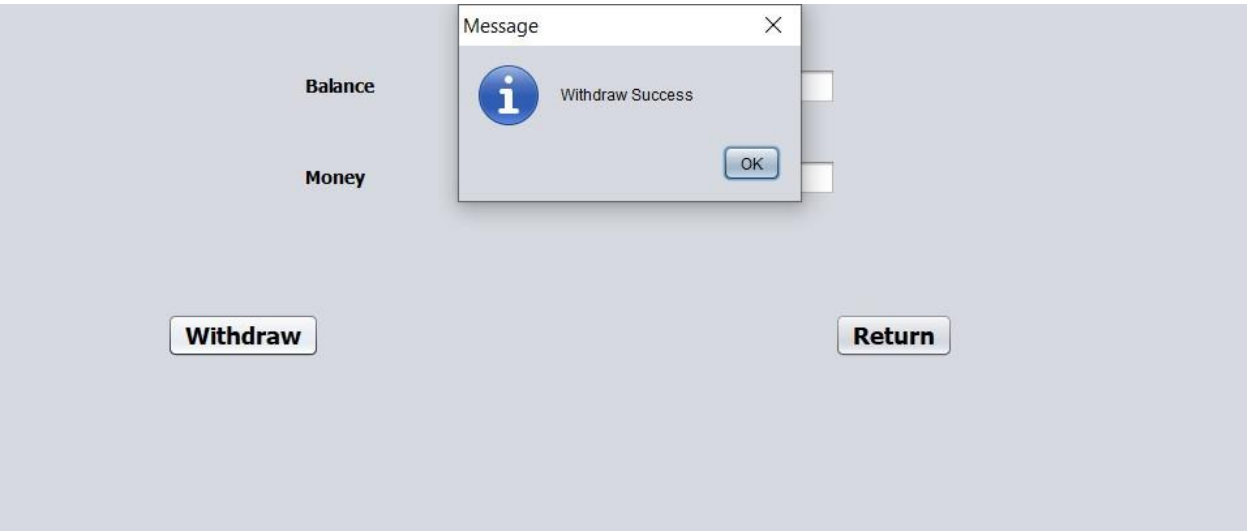
Query Data-table test



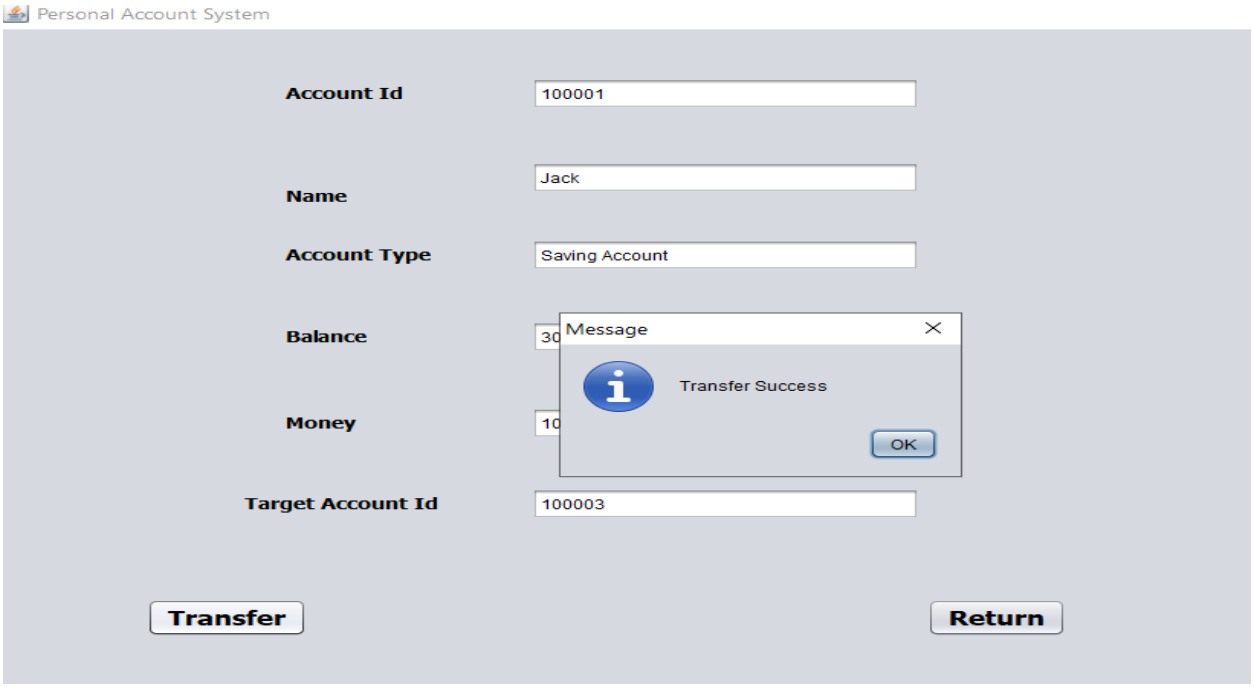
Deposit test



Withdraw test



Transfer test


Personal Account System
Account Id
100001
Name
Jack
Account Type
Saving Account
Balance
Money
Message
Transfer Success
OK
Target Account Id
100003
Transfer
Return

END