

Final Project, Points: 200

Overview

You have been hired to implement a banking application. The requirements for the application are in the following section.

Requirements

For this assignment you are going to be developing a banking application. This application will use some type of storage (xml, text, or database). I leave the choice of which one up to you.

The application will allow you to add customers. Each customer will have the following information associated with them: First and last name, address, and phone number.

A customer will have one savings account, however a savings account can have more than one owner. Every savings account will have: an account number, a balance and an interest rate. Every account could have a different interest rate. The balance display text field for the account should be non-editable. The way to edit the balance is through a deposit or withdrawal.

A user can search for a customer by first and last name. The search result gives back the savings account associated with that customer. You could have more than one customer with the same name. The application will have to also allow the user to step through the customer names.

A user can open a new account for a customer. However, the application should only allow one account per customer. This means that if the customer already has an account the application should give back an error.

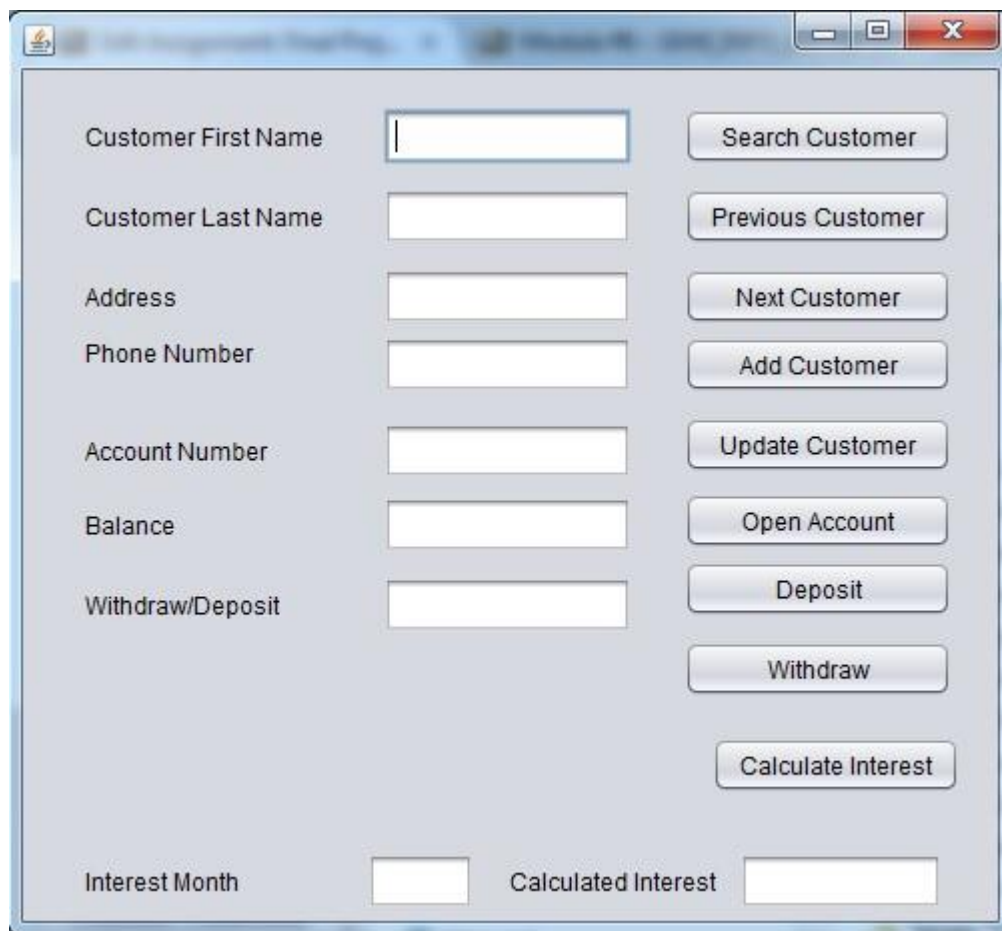
A user can calculate the total interest for the year so far. The application should request an input of the current month from the user. The calculated interest text field should be non-editable.

The application has to be a GUI (Graphical User Interface) application. There are some sample screenshots in a following section.

Screen Shots

These screen shots are examples of what your application could look like. You do not have to make your application look like the following screen shots.

This screen shot is of a solution with everything in a single window.



A screenshot of a Java application window titled "Customer Management". The window contains a form with the following fields and buttons:

Field	Button
Customer First Name	Search Customer
Customer Last Name	Previous Customer
Address	Next Customer
Phone Number	Add Customer
Account Number	Update Customer
Balance	Open Account
Withdraw/Deposit	Deposit
	Withdraw
	Calculate Interest

At the bottom of the window, there are two more fields: "Interest Month" and "Calculated Interest".



Extra Credit

For 25% extra credit: Add to the application the ability to have checking accounts. A checking account includes a balance, an account number, and written checks.

Hand In

For this assignment please hand in the full project folder with all the files and the storage system that you chose to use in a single zipped folder.