INF1003F

Programmers Details



Introduction & Objectives

This program will allow clients as well as employees of the I-Bank – Student Bank (iBSB) to complete processes through a virtual application. The clients will be able to register, make transactions and find out more about the Bank. The staff on the other hand will be able to view reports of how many clients had registered that day.

Features

If the client does not fill in any details that are required, there are exception handling and data validation processes in place.

**Various Principles have been used:**

* Data Types: Strings, Int, Doubles, arrays
* Methods – Deposit & Withdrawal Method
* Loops – for loops were used (Eg. Generating an account number)
* Arrays – stored the account numbers of the clients to verify the client
* Collections – Date was used on the summary printout , .Count was used to count the number of items in a list
* Classes – Validation Class which controls all validation processes.

**Forms:**

* Main Form – The landing page , where the user picks if they are a client or an employee
* About Form – An information page about the Bank
* Registration Form – This page allows Clients to register using their Name, Surname, Account Type, Initial Deposit Amount and be given an Account Number. They are not allowed to create an Account if they do not Provide an initial Deposit. They can also preview their details before submitting their information and creating an account.
* Transactions Form – This form allows for the clients who had registered to either print out an Account Summary, Deposit more money, or withdraw from their account. If they try to withdraw more than what is available in their account then they will not be able to proceed.
* Management Form – The management staff of the bank will have access to this page, where they can view a summary of the clients who registered that day and print it out for the records.

Assumptions

* There are two types of users: Clients & Employees
* Clients are allowed to register through the application
* Clients can make deposits and withdrawals or just print out their Bank Statement
* The staff will be able to retrieve a list of client’s information who had registered that day.
* In this version of the application, no login process was required, however an assumption was made that the Clients will not have access to the Employees report tab for confidential purposes, therefore there are separate menu-driven forms for different users.
* This application will be made user friendly, with helpful tips and information to make the clients experience easily accessible.
* There will be security features such as a log in process in later versions of this application.

User Interface

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| **MAIN FORM** |
| **A screenshot of a computer  Description automatically generated** |
| **CUSTOMER REGISTRATION** |
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| **ABOUT FORM** |
| **A screenshot of a computer  Description automatically generatedA screenshot of a computer  Description automatically generated** |

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| **CUSTOMER TRANSACTIONS** |
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| **MANAGEMENT** |
| **A screenshot of a computer  Description automatically generated** |

Extras: Additional Features

(Not taught in INF1003F)

Textfile : Clients.txt

The client’s information is stored into a text file in case of data being Volatile when the application is closed. This is read back into the application but can also be used for extra records.