American International University- Bangladesh

CSC 1205: Object Oriented Programming 1 (JAVA)

CO4 Evaluation
Project Concluding Report
Spring 19-20

Group ID: X
Project Title: Bank Management Program

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Bank Management Program

Introduction:

We did this project (Bank Management Program) to manage and control any bank digitally. Any bank can be controlled easily by using this application. Bank will be computerized. To reduce troubles of bankers due to manage various kinds of calculation the program will be very helpful. In a sentence, to manage banking system easier, comfortable and digital we have made this project.

Problem Analysis:

Bank authority will use this application to manage and control a bank. The application will make any bank faster so work will not be hanged. Error in calculation will not be appeared. Any bank can store all the customers information. Not only customer information also employee information can be stored using this program. Information of customer and employee will not loss if any bank use this application.

UI Design Analysis:

The application contains a very simple user interface. User can use this program by entering options. Switch will be appeared one by one and by entering required option the program will forward step by step.

After selecting or choosing any option user will be notified about his/her operation was succeeded or not. So that any user can use this program easily.

Logical Analysis:

There are many logics applied in this application. Conditional statements, loops and many arithmetic operations have used in this program.

The program will check user NID and Account number to do operations like deposit and withdraw money. So, no one can withdraw money if there no account of his/her. All of the logics used in this application works perfectly.

OOP Concept Analysis:

In this project three principles of OOP (Object Oriented Programming) Inheritance, Encapsulation and Abstraction have used.

Inheritance: There are four inheritance relation in this project. All the operations are connected with required classes using inheritance. Hybrid inheritance has used in this project. For example, ITransactions inherits Account class.

Encapsulation: All the variables of every classes declared in private and methods declared in public so that encapsulation can be occurred. Setter/Getter method has used to encapsule properties of objects.

Abstraction: Four interfaces have used in this project (ITransaction, AccountOperations, CustomerOperations, EmployeeOperations) so that full abstraction occurs to run this project as we interface works like abstract class and the methods of interface are abstract method.

Bank Management Program

Impact of this Project:

The project will cause many good effects on the society and economy. People can maintain any banking operation easily and faster than traditional banking system. So, the don't need to stay in long line of bank and it will save their time. It will reduce sufferings of people of society and secure banking system.

Limitations and Possible Future Improvements:

It is true that there are many limitations in project. There is no transaction system of people who will take loan from the bank. And also, customers are not able to create different types of account like fixed, savings and current account. Money transferring system is not also available in this project. But all the limitations can be improved in future by getting bankers reaction.

[Note: Make sure that your report is maximum 3 pages (including cover page).]

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