

Kantipur Engineering College

(Affiliated to Tribhuvan University)

Dhapakhel, Lalitpur; G.P.O BOX: 8849

Phone No.:5-571004, 5-571005; Fax : 5-570344

E-Mail: admin@kec.wlink.com.np

Website: www.kec.edu.np



Bank Management System

Submitted to:

Mr.Ajay Kumar Shrestha,
Depts. of Electronics and Communication,
Kantipur Engineering College,
Tribhuvan University

Submitted by:

Sahaj Shakya(29-BEX-2070)

12 February 2015

Table of content

Title	Page
1. ACKNOWLEDGEMENT	1
2. ABSTRACT	2
3. INTRODUCTION	3
3.1 Object oriented programming	
3.2 Banking record system	
4. PROBLEM DEFINATION	5
5. OBJECTIVES	5
6. METHODOLOGY	6
7. EXPECTED OUTPUTS	7
8. PROJECT SCHEDULING	7
9. BIBLIOGRAPHY AND REFERENCES	8

ACKNOWLEDGEMENT

We would like to express our sense of gratitude to all the people who helped us to prepare this proposal and stood by us with all the assistance they could grant. We would always cherish their support, guidance and encouragement that bolster us to achieve our desired aim. We would like to thanks Mr. Ajay Kumar Shrestha, our respective teacher for their kind co-operation, their invaluable suggestion & guidelines.

We would also like to extend our thankfulness to all those who have lent their help directly and indirectly during this dissertation.

ABSTRACT

This project is undergoing for the academic course of the subject Object Oriented Programming. The topic for our project is "**Bank Management System**". File handling has been effectively used for each feature of this project. Our Bank Management System can add records, search, modify & delete records. General concepts of if while loops, functions, classes and file has been used to create this program.

Our program is very reliable and simple. We have used password protection to protect the system so that no customer information is misused by any one and we will be improving further with the time.

INTRODUCTION

Object oriented programming

It is a programming paradigm based on the concept of "objects", which are data structures that contain data, in the form of fields, often known as attributes; and code, in the form of procedures, often known as methods. Object-oriented programming made its first appearance in late 1950s and early 1960s. Many of the most widely used programming languages are multi-paradigm programming languages that support object-oriented programming to a greater or lesser degree. Significant object-oriented languages include C++, Objective-C, Smalltalk, Delphi, Java, C#, Perl, Python, Ruby and PHP. In our case we mostly use C++.

C++

It is a general-purpose programming language. It has imperative, object-oriented and generic programming features, while also providing the facilities for low-level memory manipulation. It was designed by Bjarne Stroustrup and appeared in 1983. This is an efficient and flexible programming language.

Banking record system

This banking record system project is a simple application developed without the use of graphics component. It is built using the language's file handling mechanism. It is coded shortly in an understandable manner. A computer based management system is designed to handle all the primary information and intend to introduce more user friendliness in various activities such as record updates, maintains and searching. The searching record has been made quite simple as all the details of the customer can be obtained by simply keying in the identification number of the customer. Similarly, record updating and maintenance can also be accomplished by using the account number with all details being automatically generated. This system is very easy to use, so that user can use it without getting pre knowledge about this. This system is made in such a way that new features can be added very easily without making much changes in existing components.

Features of banking record system:

File handling has been effectively used for each feature of this project. We can find following features inside banking record system:-

1. Add Record:

For this feature a function has been used to add banking record into the file. It asks for information such as account number, first name, last name and balance to be entered.

2. Show/List:

With the information provided in add record, a function in this banking record system project in C++ show the record corresponding to a particular account number, first name and last name. Current balance of the account holder is displayed.

3. Search Record:

When the function for this feature is first executed, it shows the total records in the file, and the user can then search by record number. If the record searched for is not found, the banking record system project in C++ displays the message – “Error in opening! File Not Found!!”

4. Edit Record:

This works in similar manner to the Search feature. When the function for Edit Record is first executed, it shows the total records in the file, and the user can edit the information by providing record number. Then, the C++ project shows all the data in that record, and the user can enter any data to modify. If the record to be edited for is not found, it displays the message – “Error in opening! File Not Found!!”

5. Delete Record:

First of all, when the function of this feature is executed, it shows all the records in the file, and the user can enter the record number to delete. If the record was not found, this banking record system project in C++ displays the message – “Error in opening! File Not Found!!”

6. Password protected:

Password is needed to access this program. If the correct password is entered at the beginning of program then only it is executed and if incorrect is entered it is aborted. This makes the program safer.

PROBLEM DEFINATION

We have enabled the features of recording, modifying, deleting account and many other feature including password protection but still the hacking of system remains, so it has become the major problem of securing the system so that no hacker can easy hack into the system and steal, delete or modify the information of customer. Similarly we also have problem in printing the bills and the receipts. We are trying different codes to enable this feature without any problems.

OBJECTIVES

Project Specific

- To develop the software packages which can detect object motion and optimize the space consumption of disks, counting objects at the high density areas and identify the speed of the objects.
- To create an easy to understand user friendly environment.

Program specific

- To keep effective control over misappropriation of cash and banking transaction.
- To know cash and bank balances.
- To help to prepare cash budget and to avoid the possibility of having excess or shortage of cash.

Course specific

- To design and construct software, requiring and implementing the engineering knowledge and methodologies as the partial fulfillment for the Bachelor's degree in computer engineering.
- To develop the system documentation with detailed UML specifications.

METHODOLOGY

This banking record system project in C++ is a simple console application developed without the use of graphics component. It is more of a database project in C++, and is built using the language's file handling mechanism. It is suitable for beginners who want to learn how to add, edit, search, delete or modify records in a file, and how to use file as database overall.

It is a simple database project in C++. It is done using file handling mechanism in C++. The record of the customer can be added, updated, searched and deleted. It is simple project made using console application of C++. This means, no graphics component are added. The main target user of this project are the C++ beginners who want to make the project in C++ and especially those who are interested in File handling. This projects is complete package to learn how to use file as database.

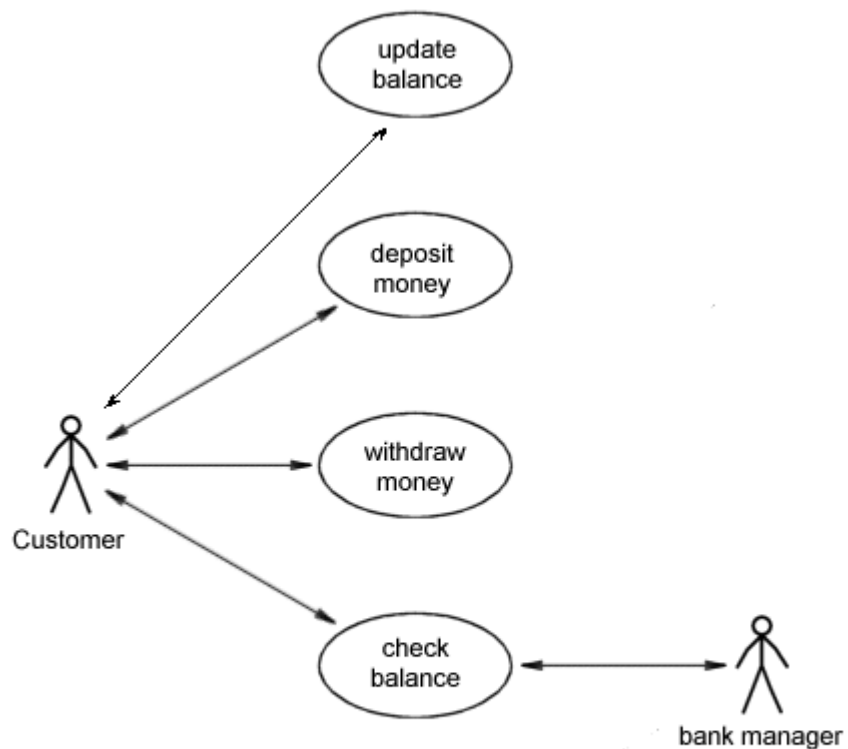


Fig: UML diagram for Bank Management System

EXPECTED OUTPUTS

This program asks user for information such as account number, first name, last name and balance. This program can also record, delete, display corresponding to a particular account number, first name and last name. For privacy, the data are password protected.

PROJECT SCHEDULING



BIBLIOGRAPHY AND REFERENCES

1. www.Wikipedia.org
2. www.Google.com
3. www.Youtube.com
4. Object-Oriented Programming in C++
Robert Lafore
5. The Secrets of Object Oriented Programming in C++
Daya Sagar Baral

Diwakar Baral
6. The C++ Standard Library - A Tutorial and Reference
Nicolai M. Josuttis.