**Report on Project**

**Title: BANKING MANAGEMENT SYSTEM**

**Introduction:**

Our group ( **Members: Muhammad Umer, Hassan Malik, Anas Akhtar**) has made a program on Banking Management System, as our semester ending project, assigned to us by Sir Shahzad, Sir Kariz Kamal and Miss Rahmeen.

**Background:**

In present system all banking work is done manually. User have to visit bank to Withdraw or Deposit amount. In present bank system it is also difficult to find account information of account holder. More than this, banks with online banking have complex interface making it difficult for new users to use them. In this bank management system we will automate all the banking process with simpler interface and easy selection of options, and assure inclusion all the possible features in a banking system.

**Problem Analysis:**

Make a program on banking system, where one can transfer funds, create account for a new user, deposit cash, withdraw cash (using the ATM), get information of the account, get a receipt of any transaction, play alarm sound if wrong data input, and change PIN code.

**Methodology and Implementation:**

This program is solely made on C language by using Dev-C++ software. We started by introducing 5 libraries: stdio.h, stdlib.h, string.h, windows.h, time.h. Declared a global variable of type ‘int’ so that it can be used in every function defined in program. A static variable of type ‘int’ was also declared. We have used Structures/Nested Structures to hold the variables for personal information of customer. Union is also included to reduce the extra space taken by structures. Use of time function to print the time of transaction. Functions are used separately for every feature included in the program. We have used while, do while and if statements for looping. For playing sound when wrong data is inputted, we have included “PlaySound” with wav type sound file. String functions such as strcpy, strlen, strcmp, for comparing, copying and finding the length of strings are used. For storing and getting the account data of customer, we used FILE pointers and functions. We created a text file named “MY PROJECT RECORD” for storing account information. Switch cases are also used for selecting the options on main interface.

**Results:**

With the help of this program, we ended up having a complete banking system. User is asked for the selection from Banking or ATM. If user selects Banking, he/she will be directed to create an account and program will ask them to deposit an amount. This information will be stored in the file. If user already has an account created, he will choose ATM. He will be then directed to an interface where he will be asked to select from Cash withdrawal, Transfer funds, Changing PIN code, and receipt containing the information of his account. For transferring funds, he will have to input the account number of account he have to transfer funds to. For cash withdrawal, he will simply have to input the amount to be withdrew. User can also change the pin code of his account.

To ensure security, if user inputs wrong account number 3 times, an alarm will ring.

**Conclusion:**

Our program is very friendly with the new users. Users with zero knowledge of banking can also access our program and get their desired output. In market, you will find numerous programs for banking management system, but none of them will be as simpler, efficient and secure as the one we are providing, and because of these features, market has a rising demand for these programs.

