Project name:

Bank Account Management System

Submitted by:

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Introduction:

The "Bank Account Management System" project provides a template for an accountant or staff to do all transactions accurately and quickly. This service allows the accountant to conduct basic financial operations from the comfort of their own workplace. The system allows the accountant to create an account, deposit/withdraw money from it, and view reports for all of the accounts in

the system. Customers can log on to the bank's website to examine their account information and conduct transactions on their accounts as needed. With Internet Banking, traditional banking's brick-and-mortar framework is transformed into a click-and-portal paradigm, giving the concept of virtual banking a physical form. As a result, today's banking is no longer limited to physical locations. Customers can conduct banking transactions at any time, anywhere in the world, thanks to e-banking. The fundamental goal of this "Bank Account Management System" is to give a better design technique that allows for future extension and change, which is essential in a vital sector like banking.

This needs an extendable and adaptable design, so the application software is developed using a modular approach. Anyone who has an account with this bank is eligible to join the Bank Account Management System. He must fill out a form with his personal information as well as his account number. A bank is a place where consumers can feel safe about their belongings. Customers deposit and withdraw money at the bank. Money transactions also include a section where the customer seeks refuge from the bank. Now, in order to maintain clients' faith and trust, the bank's management must be able to handle all of this with ease and comfort.

Indirectly, smooth and effective management influences consumer and employee happiness. And, of course, it stimulates the management committee to make certain necessary decisions for the bank's future enhancement. Managing a bank is a tedious job these days, up to a point. As a result, software that decreases the amount of work required is vital. In addition, today's world is a true computer world that is increasing faster by the day.

As a result of the aforementioned requirements, bank management software has become necessary, which will aid in the more effective operation of the bank. All transactions are completed online by moving funds from the same bank's or another bank's accounts. The program is designed to compensate for the shortcomings of the manual system.

Aim of This Project:

The major goal of creating and developing this Internet banking System PHP-based Engineering project is to deliver secure and effective internet banking services to banking consumers. This bank application was built with Apache Server Pages and a MySQL database, and all banking customers can log in using their account login id and password on a secure web page. Users will have access to all features and options in that program, including the ability to receive money from Western Union, send money to others, and send cash or money to interbank and other banking customers by simply adding them as payees.

Getting Started:

If you want to learn about accounting and banking without committing, go to our Banking website. You are not required to register in any way, so it is a good method to test the waters before committing. Once you've registered, you'll have the option of completing simple banking and checking your balance, or more sophisticated operations such as bill payments and transfers. It's entirely up to you. It all depends on your personal banking preferences. After each transaction, you'll receive a confirmation number, and you can always check the session summary to see what you've done. If you make a mistake, customer care is always willing to assist you in a friendly manner.

Main Purpose:

In the past, the only way to keep track of a user's information in a bank was to input and record it. The customer must go to the bank and acquire the transaction history every time he or she needs to know about it. However, he can check his history on this website from home or anywhere else. Another advantage of this website is that it might help you become an accountant if you are a beginner. It will assist you in understanding how a database website works.

What to expect:

Here are some of the features available through this banking website :
This web application will begin with a home page to which only accountants
with a password will have access. After gaining access, the accountant will be
presented with a number of options for completing the tasks quickly and safely.
After logging in, the accountant will see the following:
    • Make a change to an existing account.
    • Account information.

- Transactions.
- Look up accounts.
- A list of customers
- Make a new account.
- Deposit.
- Transfer.
- Make a balance check.
- Withdrawal.

The account holder will receive a consent notification when money is being withdrawn. He/she can cancel the transaction at that time if he/she uses that Method.

Objectives:

- The ability to quickly create accounts and conduct transactions.
- Notification of the transactions to the account holder.
- This program may generate an annual report.
- Using two-step verification to protect your account from spam is a good idea.
- If a transaction is completed through this web application, all branches will be updated.
- Convert money into dollars or euros with ease.
- This application will update all the branches.

Target Customer:

• Accountant: This is the person who will setup the customer's account and conduct all transactions through this web application.

• Account Holder: This is the individual whose account will be opened; he will be notified of all transactions and will provide authorization for all cash outs using the two-step verification procedure.

Modules Description:

The Modules description of the Bank Account Management System project. These modules will be developed in PHP, CSS , HTML source code and MYSQL database.

1. **Welcome Page:** This is the page that the accountant sees after logging in. Every significant tab for an accountant can be found on this page.

2. **Login:** Virtual account holders can login in to the system using this module. Thus this

is the secured login page for the customers in the website.

3. **Create New Account:** A customer who has an account in the world can create a virtual account through this module. This module receives the customer profile details and the bank account details with the proof of the ownership of the bank account.

4. **Check Balance:** This is the webpage where the accountant and customer can see the present balance.

5. **Transaction:** This module shows the customer's transactions for a specific date, along with the transaction details.

6. **Transaction History:** This is the page where the customer can see the whole month's transaction.

7. **Customer List** : In this page the accountant can see the whole customers list of the branch.

8. **Account Details:** This page will provide the details of the specific customer.

Other features and operations can be performed on a bank account, but we will not look at bank accounts in their entirety; instead, we will focus on the essentials to prevent overcomplicating the exercise. Instead of attempting to develop a financial system, the goal of this exercise is to demonstrate the utility of object-oriented programming.
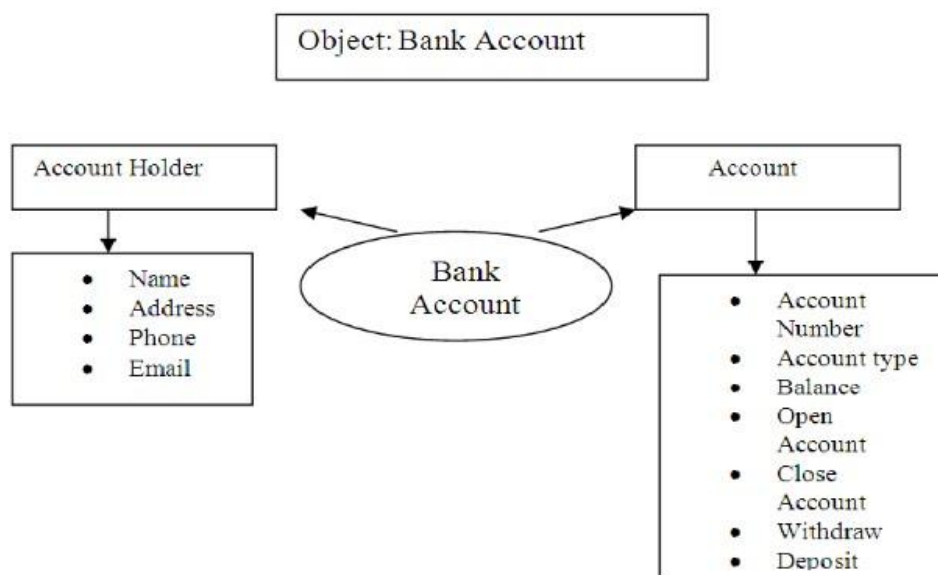
Figure 1 : Bank Account System

Methods:

1. We need to be able to generate an account number
2. Account types: Savings or Current Account
3. Maintain/update Balance
4. Open/Close Account
5. Withdraw/Deposit

The next step is to figure out where we'll save the account's information. Obviously, the ideal location to keep bank account information is in a database. Working with a database necessitates the use of the following techniques:

1. Connecting to the database
2. Inserting account details
3. Updating the balance on any withdrawal or deposits made

There is a permission process in place before the admin can access this project. If you log in as an administrator, you'll be taken to the Admin Home Page; if you log in as a regular user, you'll be taken to your Account Home Page. The following functions are performed by this: Individual accounts can be created, existing accounts can be managed, all transactions can be viewed, balance inquiries can be made, and accounts can be deleted or closed.

1. Admin login
2. Add/delete/update account
3. Withdrawal/deposit/statements transaction
4. Account Information
5. User details list
6. Active/Inactive account
7. View transaction histories

Software Requirements Specification:

Front End/Language   : PHP, CSS, HTML

Back End/Database   : MYSQL

Additional Tools   : XAMPP Server

Operating System   : Windows 7, 8, 9, 10, XP

System Design:

For any engineered product or system, design is the initial step in the development process.

Design is a kind of expression. The key to a successful system is a decent design. "The process

of applying numerous approaches and concepts with the purpose of defining a process or a system in sufficient detail to permit its physical reality," according to the definition of "design." It can be defined as the process of using a variety of methodologies and ideas to specify a device, a process, or a system in enough detail to allow physical realization. Software design is the technical core of the software engineering process, and it is employed regardless of development paradigm. The architectural detail required to produce a system or product is developed through the system design. As with any methodical methodology, this program has gone through the best possible design process, fine optimizing all levels of efficiency, performance, and accuracy. The change from a user-oriented document to a document for programmers or database personnel occurs during the design process.

Sample Snapshots of Project:
Account Login:

Account Details:

Customer List:

Customer List:

NID	Fname	lname	b_id	DOB	nationality	email	occupation	nominee	Gender	a_id	balance		
1	Israk	Farhan	1	2022-04-03	Canadian	israk@gmail.com	Student		Jason	Male	1011	20000.00	Edit	Delete

Back

Transaction History:

Transaction History

Account Number

9085264802

GO

Back

Transaction:

Check Balance:

Create Account:

Conclusion:

This project is being designed to meet the needs of a user in the banking sector by incorporating all of the tasks that occur in a bank. This project's future versions will continue to be significantly improved over the current version. Writing and depositing checks are the most basic ways to get money into and out of a checking account, but technological improvements have added ATM and debit card transactions. Every bank has guidelines for how long it takes to access your deposits, how many debit card transactions you can make each day, and how much cash you can withdraw from an ATM. Businesses that place holds on your funds might also limit your access to your checking account balance. Banks are also offering internet banking services in order to attract customers. We learned from bank personnel that the majority of internet bank account holders are young people and businesspeople. Online banking is a cutting-edge tool that is quickly becoming a need. It has proven to be a successful strategic weapon for banks in today's unpredictable and competitive industry. It would be advantageous if bank employees provided sufficient training to customers in order to open an account. Second, the website should be made more user-friendly so that first-time customers may directly make and access their accounts. As a result, the Bank Management System has been effectively built and implemented.