



# International Islamic University Chittagong

Department of Computer Science and Engineering

## Project Report

**Project Name:** Shariah-Based Bank Account Management System

**Course Code:** CSE-1122

**Course Title:** Computer Programming I Lab

### Submitted To:

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**Designation:** Lecturer, Adjunct Faculty

**Department:** Computer Science and Engineering

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**Semester:** 1<sup>st</sup>

**Section:** 1GM

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**Remarks:**

# Shariah-Based Bank Account Management System

## Team Members:

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**Project Title:** Shariah-Based Bank Account Management System

**Introduction:** The “Shariah-Based Bank Account Management System” is a robust and secure banking application designed to efficiently handle various banking operations in compliance with Shariah principles. This system ensures that users can manage their conduct transactions, calculate Zakat and access banking services seamlessly while adhering to Islamic banking guidelines. With its secure login and user-friendly interface, it aims to provide a comprehensive solution for modern banking needs.

## Features:

### Account Creation:

- User can open new accounts.

### Update Information:

- Modify existing account details.

### Transactions:

- Secure handling of deposits.
- Withdrawals in compliance with Shariah principles.

### Account Details Check:

- View account details.

### **Account Remove:**

- Remove accounts securely.

### **View Customer List:**

- Display a list of all customers.

### **Zakat Calculator:**

- Compute the Zakat amount based on the account balance with Islamic principles.

### **Implementation:**

**Short Description:** The Shariah-Based Bank Account Management System is a console-based banking application implemented in C. Users can manage accounts, conduct transactions, calculate Zakat and ensure secure access through a password-protected login. The system uses standard C libraries for input/output, memory allocation and windows-specific functions for console control. The menu-driven interface allows for easy navigation and the application stores account data in files for persistence. The system is designed to be simple yet effective, providing a reliable banking solution.

### **Library Used:**

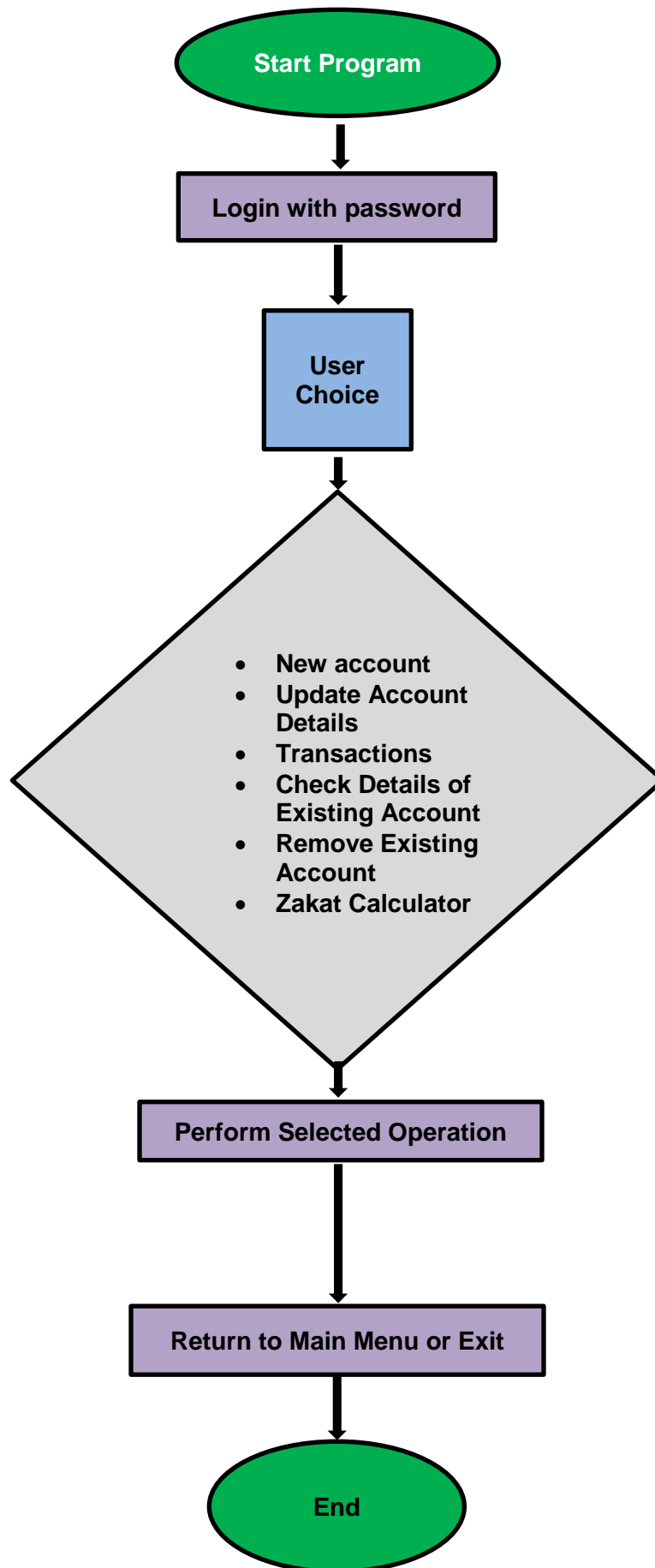
**stdio.h:** Standard Input/Output functions for reading and writing.

**stdlib.h:** Standard library functions for memory allocation, conversion and the other utility functions.

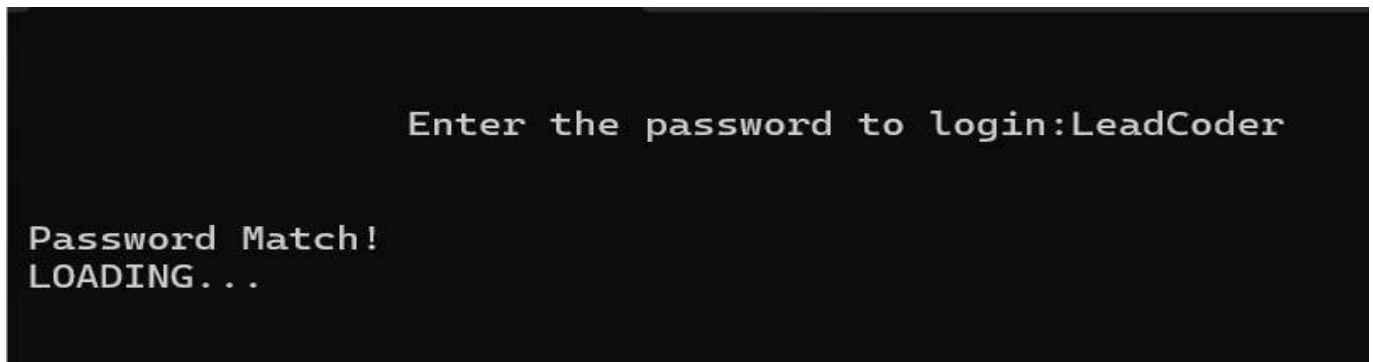
**windows.h:** Windows API functions for controlling the console.

**Future Scope:** Future enhancements for the Shariah-Based Bank Account Management System include integrating a comprehensive login system, notification features, an enhanced user interface and versions for various platforms (Android, iOS, Windows, MacOS). Additionally, incorporating machine learning could optimize task management and time efficiency. The possibilities for expanding the system are extensive.

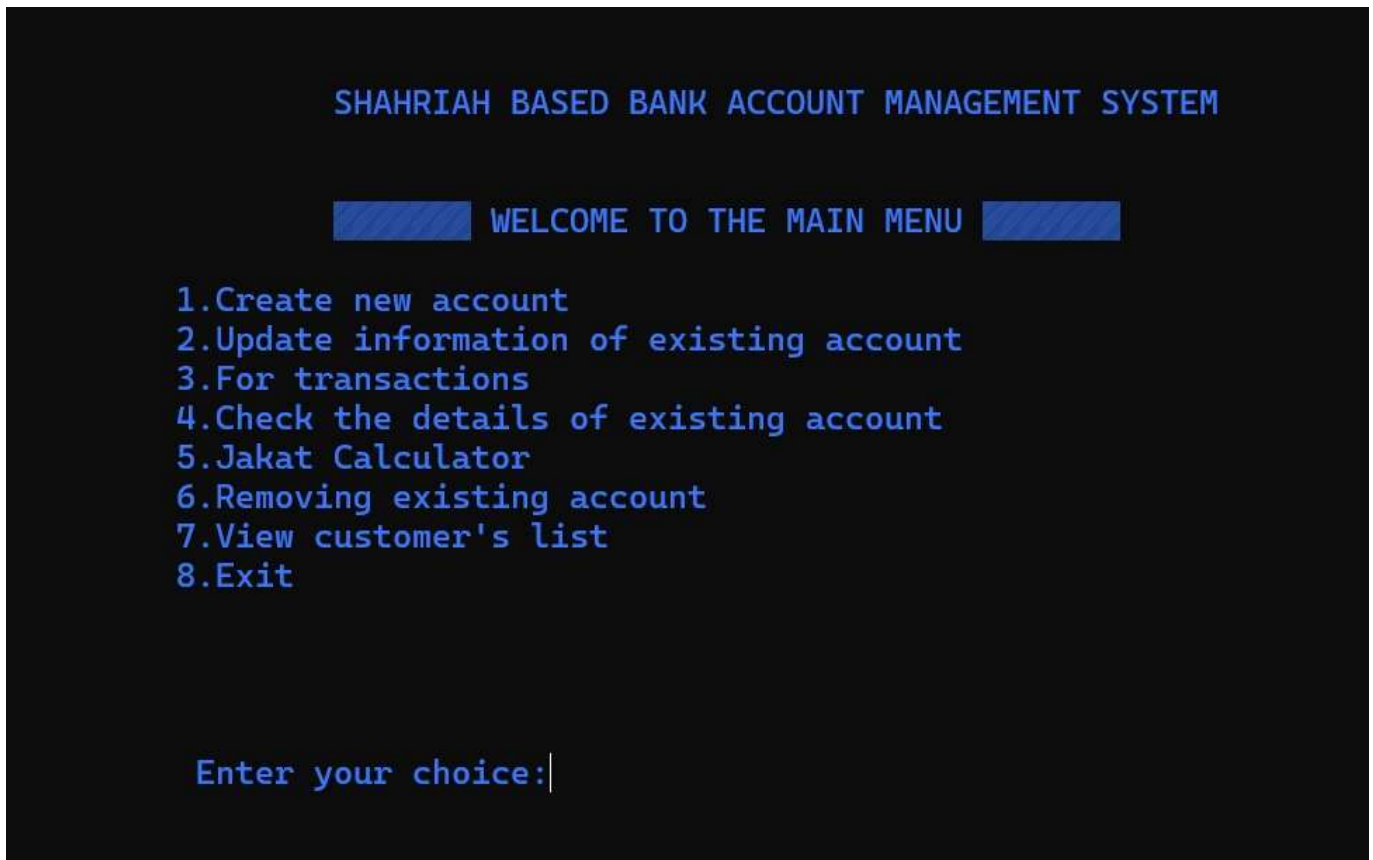
**Flow chart:**



## Screenshots:



## Starting



## User choice

## ADD RECORD

```
Enter today's date(mm/dd/yyyy):6/22/2024
Enter the account number:4
Enter the name:Azharul
Enter the date of birth(mm/dd/yyyy):12/7/2003
Enter the age:21
Enter the address:CDA
Enter the NID card number:123456
Enter the phone number: 01755511122
Enter the amount to deposit:Tk 1000
Type of account:
    #Saving
    #Current
    #Fixed1(for 1 year)
    #Fixed2(for 2 years)
    #Fixed3(for 3 years)
Enter your choice:Savings|
```

## Create New Account

```
Enter the account no. of the customer whose info you want to change:4
Which information do you want to change?
1.Address
2.Phone
Enter your choice(1 for address and 2 for phone):|
```

## Update Information

Enter the account no. of the customer:4

Do you want to

1.Deposit

2.Withdraw?

Enter your choice(1 for deposit and 2 for withdraw):1

Enter the amount you want to deposit:Tk 200

Deposited successfully!

Enter 1 to go to the main menu and 0 to exit:|

## Transactions

Account NO.:1

Name:Kamrul

DOB:28/6/24

Age:21

Address:Hajipara

NID card No:123

Phone number:1793329260

Type Of Account:Fixed2

Amount deposited:Tk 100000.00

Date Of Deposit:19/6/24

Enter 1 to go to the main menu and 0 to exit:|

## Details of Account

Zakat, which is a form of almsgiving and religious obligation in Islam, is calculated as 2.5 percent of a Muslim's total savings and wealth above a certain threshold (known as the Nisab) held for a lunar year.

Account NO.:1

Name:Kamrul

Address:Hajipara

Phone number:1793329268

Type Of Account:Fixed2

Amount deposited:Tk 100000.00

You will have to give Tk2500.00 as jakat on 19/6/25.

Enter 1 to go to the main menu and 0 to exit:

### Zakat Calculator

Enter the account no. of the customer you want to delete:4

Record deleted successfully!

Enter 1 to go to the main menu and 0 to exit:

### Removing Account



ACC. NO.	NAME	ADDRESS	PHONE
1	Kamrul	Hajipara	1793329260
2	Atiq	CDA	1815500446
3	Raquim	Kotowali	1859990441
4	Tamim	Agrabad	1815672345

Enter 1 to go to the main menu and 0 to exit:|

### View Customer List

This A Mini Project Which Is Developed By LeadCoder

Thank You For Using Our System.

Process returned 0 (0x0) execution time : 501.652 s  
Press any key to continue.

Ending