

Bank Management System in C++

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#include <iostream>
#include <string>
using namespace std;

class BankAccount {
private:
    string accountHolderName;
    int accountNumber;
    double balance;

public:
    // Constructor to initialize account details
    BankAccount(string name, int accNumber, double initialBalance) {
        accountHolderName = name;
        accountNumber = accNumber;
        balance = initialBalance;
    }

    // Function to display account details
    void displayAccountInfo() {
        cout << "\nAccount Holder: " << accountHolderName << endl;
        cout << "Account Number: " << accountNumber << endl;
        cout << "Balance: Rs" << balance << endl;
    }

    // Function to deposit money into the account
    void deposit(double amount) {
        if (amount > 0) {
            balance += amount;
            cout << "\nRS" << amount << " has been deposited into your account." << endl;
        } else {
            cout << "\nInvalid amount for deposit!" << endl;
        }
    }

    // Function to withdraw money from the account
    void withdraw(double amount) {
        if (amount > 0 && amount <= balance) {
            balance -= amount;
            cout << "\nRs" << amount << " has been withdrawn from your account." << endl;
        }
    }
}
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    } else {
        cout << "\nInvalid amount or insufficient balance for withdrawal!" << endl;
    }
}

// Function to check the account balance
void checkBalance() {
    cout << "\nYour current balance is: RS" << balance << endl;
}

};

// Main function to interact with the user
int main() {
    string name;
    int accNumber;
    double initialDeposit;

    // Collect initial account details from the user
    cout << "Enter Account Holder Name: ";
    getline(cin, name);
    cout << "Enter Account Number: ";
    cin >> accNumber;
    cout << "Enter Initial Deposit: Rs";
    cin >> initialDeposit;

    // Create a new bank account
    BankAccount account(name, accNumber, initialDeposit);

    int choice;
    double amount;

    // Menu-driven system to perform banking operations
    do {
        cout << "\nBank Management System" << endl;
        cout << "1. Display Account Info" << endl;
        cout << "2. Deposit Money" << endl;
        cout << "3. Withdraw Money" << endl;
        cout << "4. Check Balance" << endl;
        cout << "5. Exit" << endl;
        cout << "Choose an option: ";
        cin >> choice;

        switch (choice) {
            case 1:

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        account.displayAccountInfo();
        break;
    case 2:
        cout << "\nEnter amount to deposit: Rs";
        cin >> amount;
        account.deposit(amount);
        break;
    case 3:
        cout << "\nEnter amount to withdraw: Rs";
        cin >> amount;
        account.withdraw(amount);
        break;
    case 4:
        account.checkBalance();
        break;
    case 5:
        cout << "\nExiting the system..." << endl;
        break;
    default:
        cout << "\nInvalid choice! Please try again." << endl;
    }
} while (choice != 5);

return 0;
}
```