

Bank Management System

Project Description

The Bank Management System is a console-based software application developed in C++. The purpose of this project is to computerize basic banking operations such as managing customers, accounts, transactions, and loans. The system reduces manual work, improves accuracy, and ensures efficient handling of bank records.

Project Objectives

- To manage customer information efficiently
- To maintain account and transaction records
- To provide loan management functionality
- To demonstrate the use of C++ programming concepts

System Modules

1. Customer Module

This module handles all customer-related operations such as adding new customers, viewing customer details, updating records, and deleting customers.

Customer Data Structure:

Customer { CustID, Name, Address, Phone, Email }

2. Account Module

The account module is responsible for managing bank accounts. It allows opening new accounts, viewing account details, and checking balances.

Account Data Structure:

Account { AccNo, CustID, Type (Savings/Current), Balance, OpenDate }

3. Transaction Module

This module manages all financial transactions such as deposits and withdrawals. It also maintains a transaction history for each account.

Transaction Data Structure:

Transaction { TransID, AccNo, Type, Amount, Date, Description }

4. Loan Module

The loan module allows customers to apply for loans and enables the bank to track loan status.

Loan Data Structure:

Loan { LoanID, CustID, Amount, InterestRate, Status }

Technologies Used

- Programming Language: C++
- File Handling for data storage
- Console-based user interface

Conclusion

The Bank Management System is a practical implementation of C++ concepts in a real-world scenario. It enhances understanding of object-oriented programming, file handling, and system design.