Bank account management system

# Project title:bank management system

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COURSE:data structures

College:NBKR INSTITUTE OF SCIENCE AND TECHNOLOGY

BRANCH:CSE-C

YEAR & SEM: 1Y-2sem

Acknowledgement:

We would like to express our heartfelt gratitude to all those who supported us throught the

Development of this group project .Our sincere thanks to our faculty members for their continuous

Guidance and motivation. we are also gateful to our families and friends to their unwavering support

And encouragement .Special thanks to the authors of reference books and online resources wish helped us gain better insights.Team collaboration played a significant role in overcoming challenges during the project. without everyone’s cooperation and contribution ,completing this project would not have been possible.

Abstract:

The bank account management system is a console-based group project developed in C programming language. The bank account management system is an application for maintaining a persons account in a bank. In this project I tried to show working of a banking account system and

Cover the basic functionality of a bank account management system. To develop the banking project for solving financial applications of a customer in banking environment in order to nurture the needs of an end banking user by providing various way to perform banking tasks.

Introduction:

A bank account management system is a software applications designed to streamline and automate banking operations, enabling efficient management of customer account, financial transactions, and banking service.it aims to reduce manual processes ,minimize errors ,improve customer service, and ensure compliance with banking regulations. Key functionalities include account creation, deposits , with draws loan processing and transaction management.

Objective:

1.customer management

2.account management

3.transaction processing

4.loan management

5.security and access control:

System requirements:

#### Software requirements:

-c language complier(GCC/Turbo c/code::blocks/Dev C++

-operating system: windows 7/8/10, linux ,or macos

Hardware requirements:

--processors: intel i3/i5/i7 or equivalent

-RAM: 2 GB minimum(4GB recommended)

-hard disk: 200MB free space

- input device : keyboard

-output devices : monitor

Project description:

Problem statement :manage the bank account data manually can lead to errors and inefficiency, especially when the handling large number of records.

Proposed solution: we proposed the development of a bank account management system using C that could store , retrieve, update and delete records efficiently through a menu-driven console application.

## Key features:

1. Account management
2. Transaction processing
3. Balance tracking
4. Reporting & analytics
5. Customer service
6. Security and compliance

# Algorithm:

1. Start the program
2. Display the menu options to the user
3. Accept user choice
4. Perform operation based on the selected choice

-add account

-display the account

-search the account

-update account

-delete account

-exit

5.loop back to the main menu until exit is chosen

6.end the program

Benefits of using bank account management system:

\*Increased efficiency

\*improved accuracy

\*cost savings

\*enhanced customer service

\*better decision making

\*online banking platforms

# CONCLUSION:

THE bank account management system project provided our group with valuable hands on experiences in C programming. Through effective collaboration, we were able to design, develop ,test and validate a fully functional system. It reinforced our understanding of structures ,arrays, loops ,and modular programming practices. Despite minor limitations ,the project achieved its goals successfully .working as a team helped us learn the importance of communication task division and vision control . overall this project laid a strong foundation for tackling more complex software projects in the future.

# Reference:

* Algorithm and data structure : the basic toolbox by kurt Mehlhorn and peter sanders
* C data structures and algorithm by Alfred v .Aho, Jeffrey D .Ullman and John E .Hopcroft
* Problem solving with algorithm and data structures by Brad miller and David Ranum