BANKING SYSTEM PROJECT REPORT

Submitted By

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1. ABSTRACT

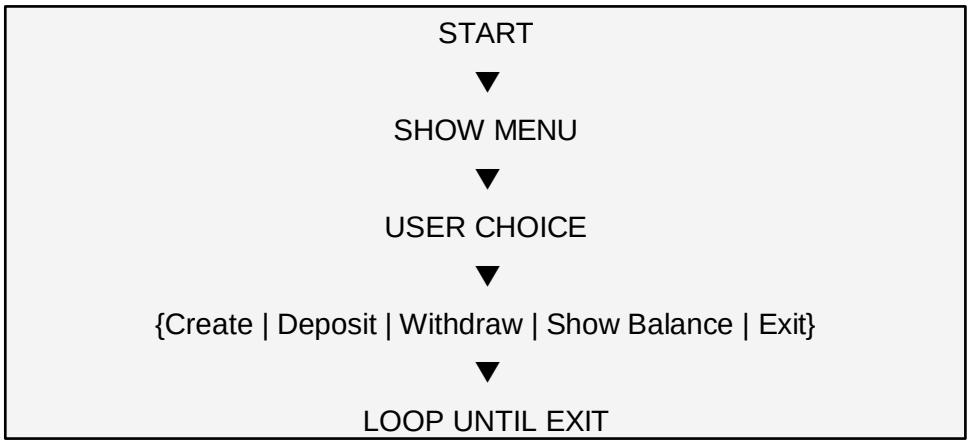
This project presents a simple console based banking system implemented in the C programming language. The project demonstrates essential programming concepts such as structures, modular programming, header files, user-defined functions, and menu-driven program flow. The system supports account creation, deposit, withdrawal, and balance check operations.

2. PROBLEM DEFINITION

The objective of this project is to design a basic banking system capable of performing simple financial operations. The project aims to make students understand program structure, modular code design, and input handling.

3. SYSTEM DESIGN

Flowchart:



Algorithm:

1. Start the program.
2. Display the main menu.
3. Read the user's choice.
4. If user selects Create Account → ask for ID and name.
5. If user selects Deposit → ask amount and add to balance.
6. If user selects Withdraw → check if sufficient balance, then deduct.
7. If user selects Show Balance → display all details.
8. Repeat menu until Exit is chosen.

4. IMPLEMENTATION DETAILS

The project follows modular programming by separating the logic across multiple files:

• **main.c** → Contains the main menu and user interaction logic.
• **bank.c** → Contains implementation of deposit, withdraw, show balance, and create

account.
• **bank.h** → Contains structure definition and function prototypes.
• **sample_input.txt** → Demonstrates sample input used for testing.

Program Output Screenshot:

```
pratik@PratikMehra:~/Workspace/banking_project$ ./main
2. Deposit
3. Withdraw
4. Show Balance
5. Exit
Enter choice: 1
Enter Account ID: 101
Enter Your Name: Pratik
Account Created Successfully!

--- Banking System ---
1. Create Account
2. Deposit
3. Withdraw
4. Show Balance
5. Exit
Enter choice: 2
Enter amount to deposit: 500
Amount Deposited Successfully!

--- Banking System ---
1. Create Account
2. Deposit
3. Withdraw
4. Show Balance
5. Exit
Enter choice: 4

--- Account Details ---
ID: 101
Name: Pratik
Balance: 500.00

--- Banking System ---
1. Create Account
2. Deposit
3. Withdraw
4. Show Balance
5. Exit
Enter choice: 5
Exiting...
```

5. TESTING & RESULTS

The program was tested with multiple valid and invalid inputs. All operations worked correctly:

• Account creation successful
• Deposit and withdraw operations running smoothly
• Handles insufficient funds correctly
• Repeated menu execution working fine

6. CONCLUSION

The Banking System project successfully demonstrates the use of structures, modular code, and menu-driven programs in C.

7. REFERENCES

• Class Notes
• ANSI C Documentation
• GCC Manuals

8. APPENDIX

Sample Input Used:
101
Pratik
500
4
5