

Design Atm

Functional Requirement

1. The system should validate the user based on card number/pin combination
2. The user should be able to select different options from the menu/list
3. The user should be able to withdraw, deposit money, view current balance, print receipt after every transaction
4. The system should record all transactions done by user
5. The system should prompt the user to logout after completion of transaction. If the user forgot to logout , the system should automatically log out within 15 seconds

Use Cases

Actors

User

Operator

Bank Manager

Use cases

- Login
- User Credential Validation
- Display Menu to user
- Withdraw Money
- Transfer money
- Deposit Money
- Block/Unblock Card
- Balance Inquiry
- Print Receipt
- View Transaction history
- System startup/shutdown
- Machine Maintenance
- Cash Refilling
- Add Paper to Printer
- Total deposit/withdrawal
- Check remaining cash
- Print total deposit/withdrawal



Classes and Relations

Classes

Bank Account

Customer

Withdraw

Deposit

Transfer

Card Reader

Operations

Card

Cheque

Transactions

Printer

Logs

Relations

COMPOSITION BETWEEN LOG AND TRANSACIONS

ASSOCIATION BETWEEN BANK ACCOUNT AND CUSTOMER

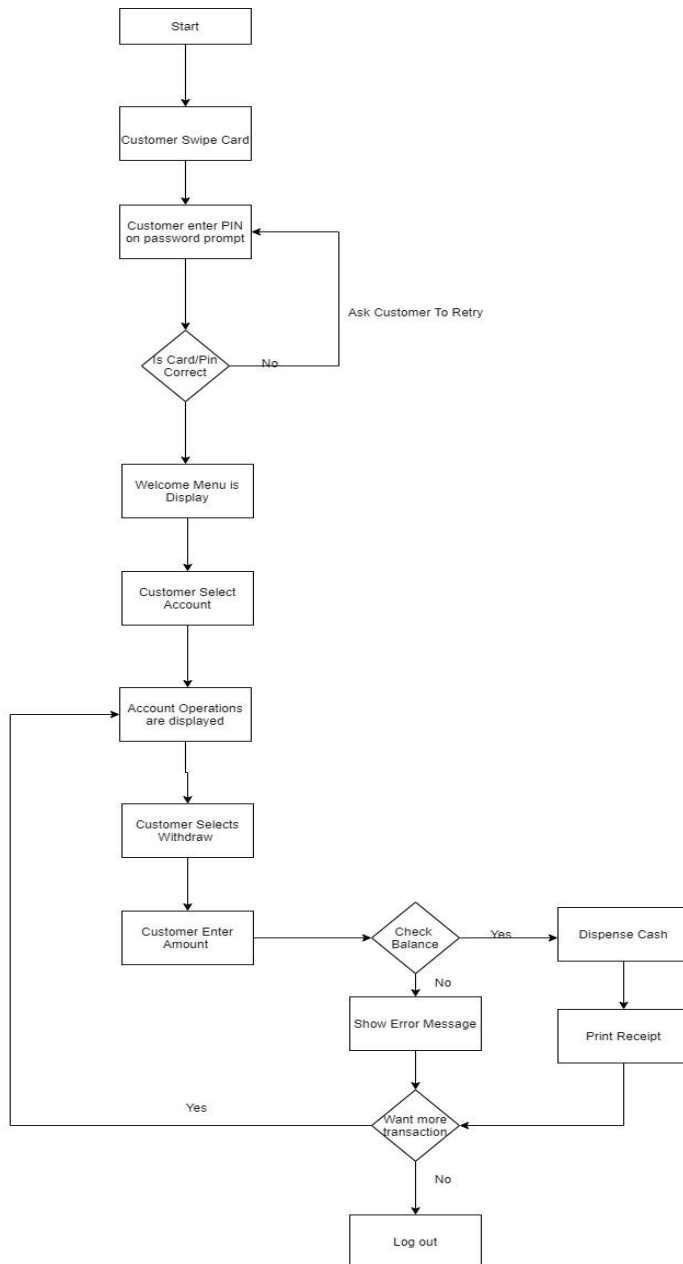
ASSOCIATION BETWEEN ACCOUNT AND CARD

Association between Printer and transfer, withdraw and deposit

INHERITANCE BETWEEN Operations and Transfer, withdraw and deposit

Activity Diagram

Withdrawal



Deposit

