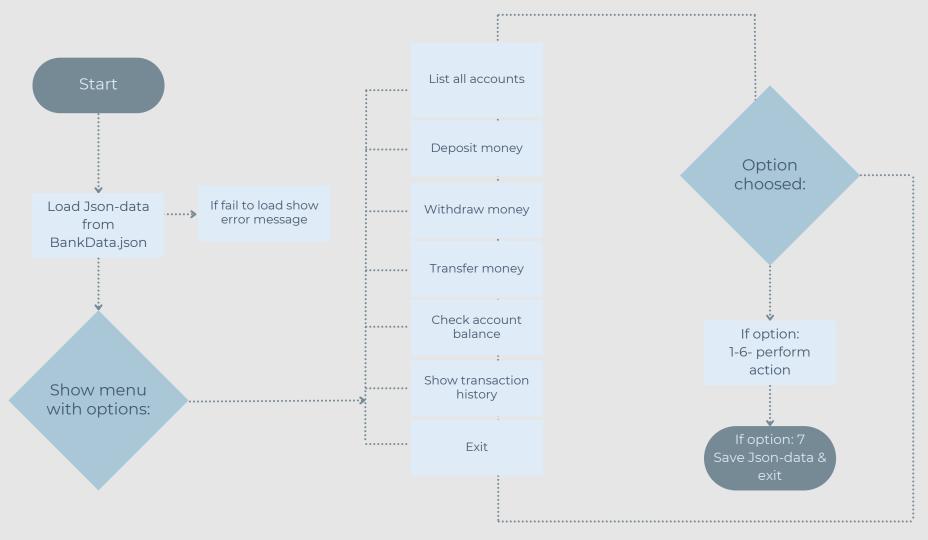
# BANK APPLICATION

# **FLOWCART**



## BANK APPLICATION

## **UML CLASS DIAGRAM**

#### BankData.json

accounts: [.....]

### HandleBankDB

[JsonPropertyName (accounts)]

### InputValidation

BankAccount ValidateAccountNumber()

double ValidateAmountInput()

double ValidateNumericInput()

#### Bankaccount

- + string AccountType
- + int AccountNumber
  - + string UserName
  - + double Balance
- -List<Transactions> Transactions +IReadOnlyList<Transactions> transaction -int transactionCounter

BankAccount(string accountType, int accountnumber, string userName, double balance)

Deposit()
Withdraw()
Transfer()
CheckBalance()
AddTransaction()
ShowTransactionHistory()

#### **I**Account

int AccountNumber double Balance string AccountType

Deposit()
Withdraw()
Transfer()
CheckBalance()

#### **ITransactionHistory**

IReasOnlyList<Transaction> Transactions

AddTransaction()
ShowTransactionHistory()

#### Personal Account

PersonalAccount(string
 AccountType, int
accountNumber, string
 userName, double
 balance,
 List<Transaction>
 transactions)

#### Investment account

InvestmentAccount(strin g AccountType, int accountNumber, string userName, double balance, List<Transaction> transactions)

#### Savings account

SavingsAccount(string AccountType, int accountNumber, string userName, double balance, List<Transaction> transactions)

#### Transaction

string TransactionId DateTime Date string Type double Amount