**BankAccount.java**

- accountNumber: String

- accountHolderName: String

- accountType: String

- balance: double

- password: String

+ BankAccount(String, String, String, double, String)

+ getAccountNumber(): String

+ getAccountHolderName(): String

+ getAccountType(): String

+ getBalance(): double

+ getPassword(): String

+ deposit(double): void

+ withdraw(double): void

Main:

- ACCOUNTS\_FILE: String

- accounts: List<BankAccount>

- currentAccount: BankAccount

- balanceLabel: Label

+ main(String[] args): void

+ start(Stage): void

+ updateBalance(): void

+ generateAccountNumber(): String

+ saveAccounts(): void

+ loadAccounts(): void

**Transaction.java**

- transactionId: String

- date: Date

- type: String

- amount: double

+ Transaction(String, double)

- generateTransactionId(): String

**SavingsAccount**

- minimumBalance: double

- interestEarned: double

+ SavingsAccount(String, String, String, double, double)

+ calculateInterest(): double

**CheckingAccount**

- overdraftLimit: double

- overdraftFee: double

+ CheckingAccount(String, String, String, double, double, double)

+ withdraw(double): void

- deductOverdraftFee(): void













