BankSystem

description:
Represents the main class of
the banking system.

+login() : : void

SavingsAccount

description:
Represents a savings account.

+createSavingsFile() : : void

Transaction

description:
Represents a transaction made on
an account.
-date: DateTime
-action: string
-amount: decimal
-finalBalance: decimal

CurrentAccount

description:
Represents a current account.

+createCurrentFile() : : void

Login

description:
Handles the login process.

+loginAsEmployee(pin: string) : : bool
+loginAsCustomer(firstName: string, lastName: string, accountNumber: string, pin: string) : : bool

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BankEmployee

description:
Represents a bank employee.

+createCustomer(firstName: string, lastName: string, email: string) : : Customer
+deleteCustomer(customer: Customer) : : bool
+createTransaction(customer: Customer, accountType: string, action: string, amount: decimal) : : Transaction
+listCustomers() : : List
+showCustomerBalances() : : void
+listCustomerAccountNumbers() : : List

Account

description:
Represents a bank account.
#balance: decimal
#accountNumber: string
#pin: string

+addMoney(amount: decimal) : : void
+subtractMoney(amount: decimal) : : void
+createAccountFile() : : void
+createTransactionRecord(date: DateTime, action: string, amount: decimal, finalBalance: decimal) : : void

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Customer

description:
Represents a customer.
#savingsAccount: SavingsAccount
#currentAccount: CurrentAccount

+login(firstName: string, lastName: string, accountNumber: string, pin: string) : : bool
+retrieveTransactionHistory(accountType: string) : : List
+addMoney(accountType: string, amount: decimal) : : void
+subtractMoney(accountType: string, amount: decimal) : : void

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FileHandler

description:
Responsible for handling file operations.

+createFile(fileName: string) : : void
+writeFile(fileName: string, data: string) : : void
+readFile(fileName: string) : : string

DatabaseHandler

description:
Responsible for handling database operations.

+createDatabase(databaseName: string) : : void
+writeDatabase(databaseName: string, data: string) : : void
+readDatabase(databaseName: string) : : string

User

description:
Represents a user of the system.
-firstName: string
-lastName: string
-accountNumber: string
-pin: string