## ui::BankInterface actions: Map<String, UIAction> {readOnly} credentials: Credentials location: OperationLocation (readOnly) log: Log {readOnly} addAction(String, UlAction) : void «interface» +actions BankInterface(OperationLocation) ui::UlAction createAndShowUl(): void getCredentials(): Credentials execute(): void getOperationLocation(): OperationLocation isEnabled() : boolean isLoggedIn(): boolean setEnabled(boolean) : void login(Credentials): void logout(): void readBranchld(): Long readCurrentAccountNumber(): Long toggleActions(): void «interface» «interface» business::AccountOperationService business::AccountManagementService deposit(long, long, long, long, double) : Deposit createCurrentAccount(long, String, String, int, Date, double): CurrentAccount getBalance(long, long) : double login(String, String) : Employee getStatementByDate(long, long, Date, Date) : List<Transaction> getStatementByMonth(long, long, int, int) : List<Transaction> login(long, long, String) : CurrentAccount transfer(long, long, long, long, double): Transfer withdrawal(long, long, long, double): Withdrawal impl::AccountOperationServiceImpl impl::AccountManagementServiceImpl database: Database (readOnly) database: Database (readOnly) random: RandomString AccountOperationServiceImpl(Database) deposit(long, long, long, long, double): Deposit AccountManagementServiceImpl(Database) getBalance(long, long) : double createCurrentAccount(long, String, String, int, Date, double): CurrentAccount getOperationLocation(long): OperationLocation login(String, String) : Employee getStatementByDate(CurrentAccount, Date, Date) : List<Transaction> getStatementByDate(long, long, Date, Date) : List<Transaction> getStatementByMonth(long, long, int, int) : List<Transaction> login(long, long, String): CurrentAccount readCurrentAccount(long, long): CurrentAccount transfer(long, long, long, long, long, double): Transfer withdrawal(long, long, long, double): Withdrawal -database -database data::Database currentAccounts: Map<CurrentAccountId, CurrentAccount> {readOnly} employees: Map<String, Employee> {readOnly} log: Log {readOnly} operationLocations: Map<Long, OperationLocation> {readOnly} changeDate(Transaction, Random, Calendar): void Database() Database(boolean) getAllCurrentAccounts(): Collection<CurrentAccount> getAllEmployees(): Collection<Employee> getAllOperationLocations(): Collection<OperationLocation> getCurrentAccount(CurrentAccountId): CurrentAccount + getEmployee(String) : Employee + getNextCurrentAccountNumber(): long + getOperationLocation(long): OperationLocation initData(): void + save(CurrentAccount) : void + save(Employee): void + save(OperationLocation) : void

## domain::CurrentAccount

- balance: double
- client: Client
- deposits: List<Deposit>
- id: CurrentAccountId
- transfers: List<Transfer>
- withdrawals: List<Withdrawal>
- + CurrentAccount(Branch, long, Client)
- CurrentAccount(Branch, long, Client, double)
- + deposit(OperationLocation, long, double); Deposit
- depositAmount(double) : void
- + getBalance() : double
- + getClient(): Client
- + getDeposits(): List<Deposit>
- getid(): CurrentAccountid
- getTransactions(): List<Transaction>
- getTransfers(): List<Transfer>
- + getWithdrawals(): List<Withdrawal>
- hasEnoughBalance(double) : boolean
- isValidAmount(double) : boolean
- transfer(OperationLocation, CurrentAccount, double): Transfer
- + withdrawal(OperationLocation, double) : Withdrawal
- withdrawalAmount(double) : void



