Group 5: Online Banking App

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Agenda

- Problem Overview
- Key Design Elements
- Solution Structure
- Client & Manager: Composition
- Database: closer look
- Accounts: types & composition
- Portfolio of securities: structure
- Testing the previous app



Problem Overview

Create an online bank platform where **customers** can create checking and savings **accounts**, maintain deposits in at least three **different currencies**, take out **loans**, open a **portfolio** and invest in securities.

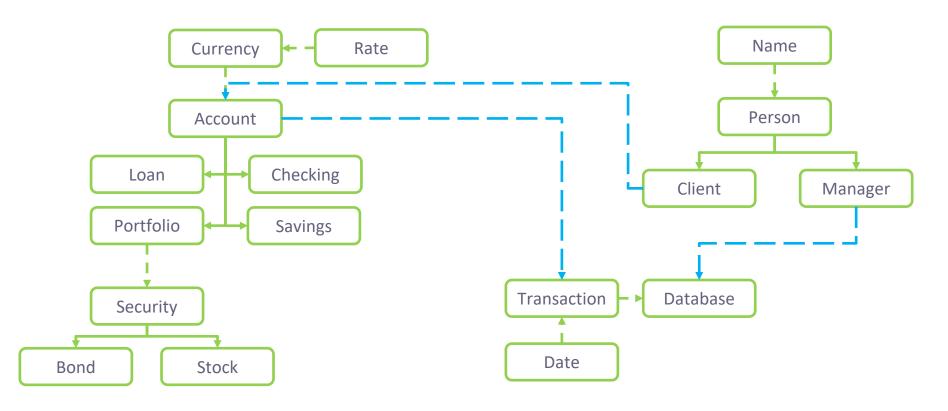
The bank manager has the ability to approve loans, update securities prices, access historical transactional data and get information about specific customers.



Key Design Elements



Overall Design Structure



Client & Manager

Person Name, Login, Password

Client Manager

- ✓ Collateral
- ✓ List of Accounts:
 - Checking
 - Savings
 - Loan
 - Portfolio (max 1)
- ✓ Methods to
 - open/close accounts
 - make transactions
 - ask for a loan
 - create a Portfolio

Methods to:

- approve a loan
- get transactions report
- get info on a client
- modify securities

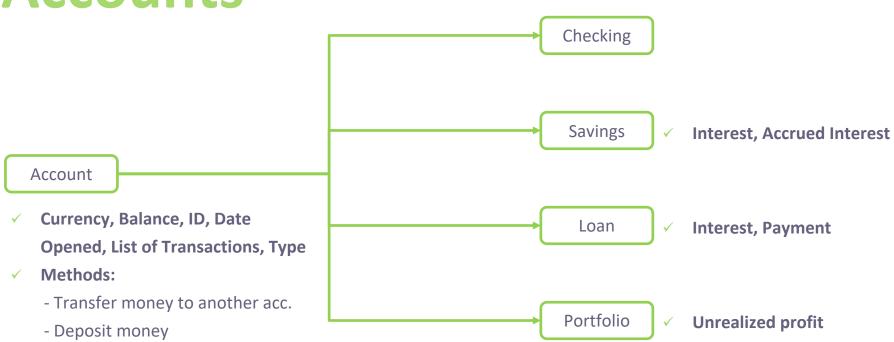


Accounts

- Pay a business

- Take out money

- Change currency



Database

Account Info

- ✓ User ID
- ✓ Type
- ✓ Balance
- ✓ Currency

Client Info

- First name
- ✓ Middle name
- ✓ Last name
- ✓ User ID
- ✓ Login
- ✓ Password

Bank Info

✓ Transactions

Securities Info ✓ Security ID

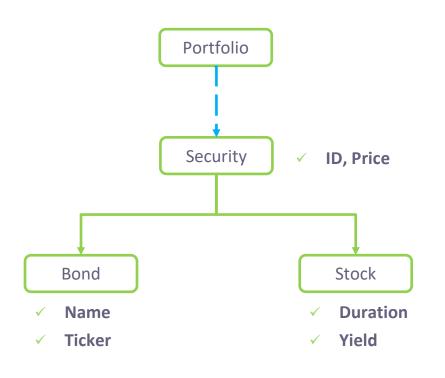
✓ Price

Transaction Info

- Acc. ID from
- ✓ Acc. ID to
- ✓ Type
- ✓ Amount
- ✓ Currency



Portfolio & Securities





Previous Model Demo



