

Back-end Training

Back-end Project Question

Problem statement:

Bank Management System

The system will be used by Bank Officials to keep a track of Customers along with their accounts and transactions. There can be multiple types of accounts, like Savings and Current. One customer can have multiple accounts, but one account must belong to only one customer.

The different operations that can be performed on each are as follows:

(These are generic suggestions ... more operations can be added)

Customer: Add, Delete, Update, GetAll

Account: Add, Delete, Update, GetAll, Deposit, Withdraw, Transfer Money, Transaction Summary (Based on Date Range)

Transaction: Add, Delete, Update

Some Points to consider:

- DI can be used in case of different types of accounts
- Some basic differences between Savings and Current account are Minimum Balance, MaxWithdrawalAmountPerDay, MaxNumberOfWithdrawalPerDay, Interest Rate
- Interest is not calculated, only the correct interest rate should be written based on the type of account.
- The customer should not exist in the system without having at least one account associated with it.