HedgeFund

- nameFund : String
- manager : Manager
- strategy : InvestStrategy
- investorList : List<Investor>
- portfolio : Portfolio

+ addInvestor(inv: Investor): void
+ addInvetor(name:String, deposit:double): void
+ runInvestment(): void
+ totalDana(): double
+ changeStrategy(s:InvestStrategy): void

<<Interface>> InvestStrategy

+ generateReturn(): double

NotificationService

+ sendNotification(msg:String): void

ReportGenerator

+ generateReport() : String

RIskManager

- performance: FundPerformance

+ assessRisk() : String

Implements

Implements

<<Interface>> AggresiveStrategy

+ generateReturn(): double

<<Interface>> ConservativeStrategy

+ generateReturn(): double

Service Layer

BaseUser

~ username:String
~ password:String

+ login(user:String, pass:String) boolean

Manager

- name: String
- experince: int

+ kelolaFund(): void

Portfolio

- daftarAset: List<Asset>

+ addAsset(a: Asset): void
+ hitungNilai() : double

FundPerformance

- rateofReturn: double

+ evaluate() : String

Inheritance

AdminUser

+ approveInvestor(): void

Investor

- id: int
- name : String
- saldoAwal : double
- saldoSaatIni : double

+ updateSaldo(rate:double): void
+ getInfo(): String
+ getsaldoSaatIni(); double

Asset

- symbol: String
- quantity: int

Transaction

- amount: double
- desc: String

+ process() : void

DAO/Data Layer

DBConnection
- URL : String
- USER : String
- PASS: String

+ get(): Connection

InvestorDAO
+ save(i: Investor): void
+ getAll(): List<Investor>

TransactionDAO
+ save(t: Transaction): void

Uses JDBC

Uses JDBC

INHERITANCE
- BaseUser → AdminUser

- InvestmentStrategy → AggressiveStrategy

- InvestmentStrategy → ConservativeStrategy

COMPOSITION
- HedgeFund *— Portfolio

AGGREGATION
- HedgeFund o— Investor

- Portfolio o— Asset

ASSOCIATION
- HedgeFund → Manager

- Investor → Transaction

- Manager → Investor

- HedgeFund → Strategy

DEPENDENCY
- HedgeFund → NotificationService

- HedgeFund → ReportGenerator

- HedgeFund → RiskManager

- InvestorDAO → DatabaseConnection

- TransactionDAO → DatabaseConnection