Analysis Model of a Bank Christoph Knabe, 2018-01-05

«service» **BankService**

«commands»

createClient(username: String, birthDate: LocalDate): Client

deleteClient(client: Client)

«queries»

findAllClients(): Client[]

findYoungClients(fromBirth: LocalDate): Client[] findRichClients(minBalance: Amount): Client[]

Stereotypes:

- «entity» Objects have an identity and are persistent.
- «service» Container for operations, which are not specific for an entity.
- «value object» Objects without identity and persistence
- «commands» Following operations modify the system state.
- «queries» Following operations do not modify the system state.

«entity» Client

-username: String -birthDate: LocalDate

«commands»

createAccount(accountName: String): AccountAccess

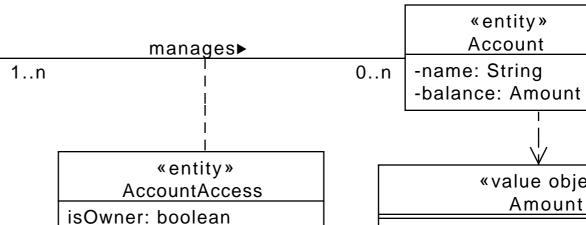
deposit(destination: Account, amount: Amount)

transfer(source: Account, destination: Account, amount: Amount)

addAccountManager(account: Account, manager: Client): AccountAccess

«queries»

accountsReport(): String



«value object» **Amount**

Amount(euros: int, cents: int)

Amount(euros: double)

plus(other: Amount): Amount minus(other: Amount): Amount times(factor: double): Amount

toDouble(): double