|  |
| --- |
| Customer |
| -cust\_Id: Int(5) <PK>  -username: String(20)  -email: String(50)  -phone: String(10)  -password: String(8) – Regex?  -cardnumber: String(16)  -account: Account  -status: Char(1)  +GetCustomer(cust\_Id): void  +GetNextCustId(): int  +IsValidEmail(email): bool  +IsValidPasswd(passwd): bool  +IsValidPhone(phone): bool  +RegisterCustomer(): void  +DeactivateCustomer(): void  +UpdateCustomer(): void |

* Variables start with Lowercase, Method names with UpperCase.
* Passwords CAN be duplicated, because I know someone is going to complain about that.
* Decimals will be correct to THREE decimal places, numerous countries in North Africa and Middle East have currencies with three decimal places.
* Key: UnderLine = Static. + = Public Method. Dec = Decimal.
* Didn’t take long to make me hate PostGreSQL.

|  |
| --- |
| Account |
| -account\_Id: Int(5) <PK>  -cust\_Id: Int(5) <FK>  -balance: Dec(5,3)  -transaction: Transaction  -status: Char(1)  +GetAccount(account\_Id): void  +AddAccount(): void  1..1  +UpdateAccount(): void  +GetAccount(account\_Id): void  +DeactivateAccount(): void  +RetrieveBalance(): void |

Has

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1..\*

Transacts

|  |
| --- |
| Transaction |
| -transact\_Id: Int(5) <PK>  -account\_Id: Int(5) <FK>  -amount: Dec(5,3)  -type: Char(1)  +GetTransaction(transact\_Id): void  +CheckAmount(): void  +UpdateBalance(): void  +CancelTransaction(): void |

\*..1

|  |
| --- |
| Currency |
| -curr\_Id: Int(5) <PK>  -name:String(5)  -value:Decimal(5)  +convert(): void |