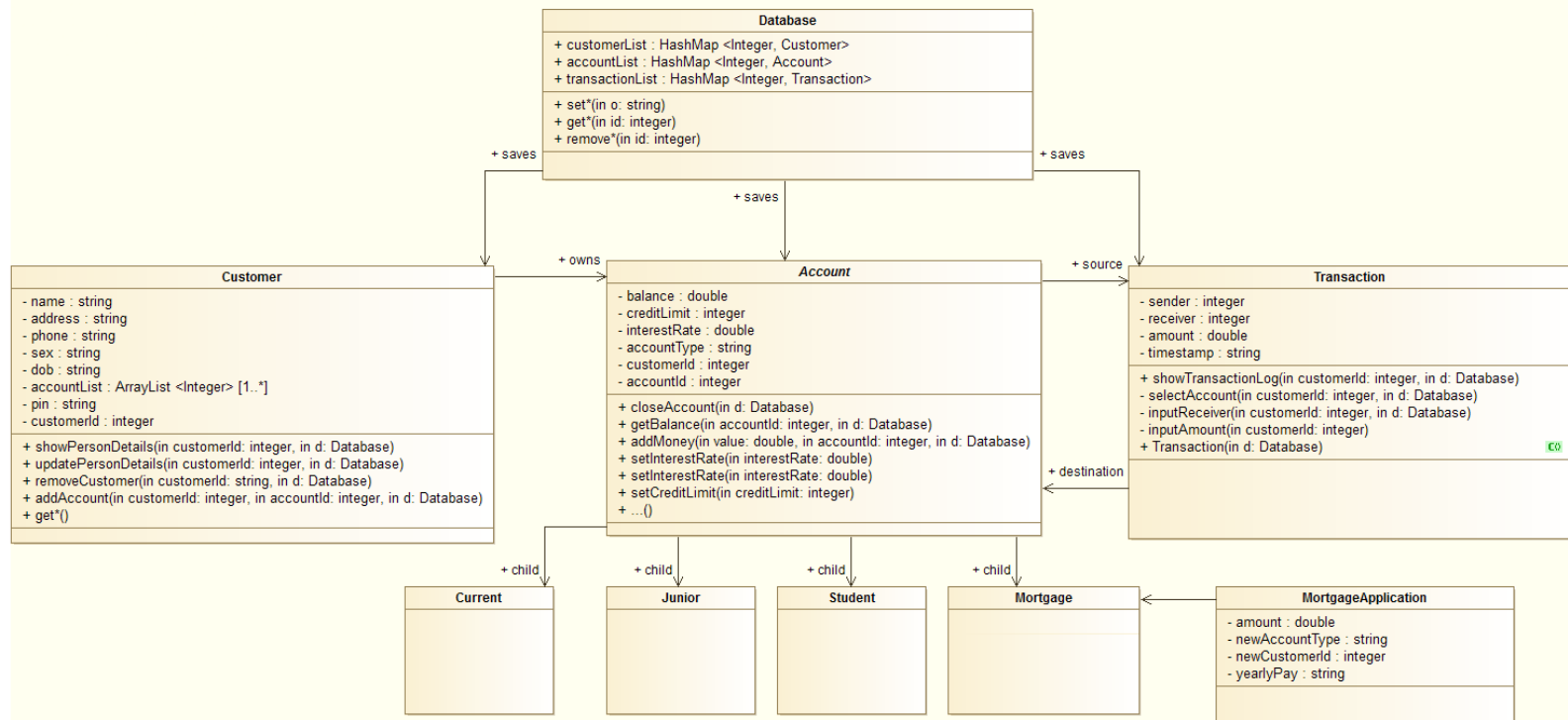




>cd ./Overview_

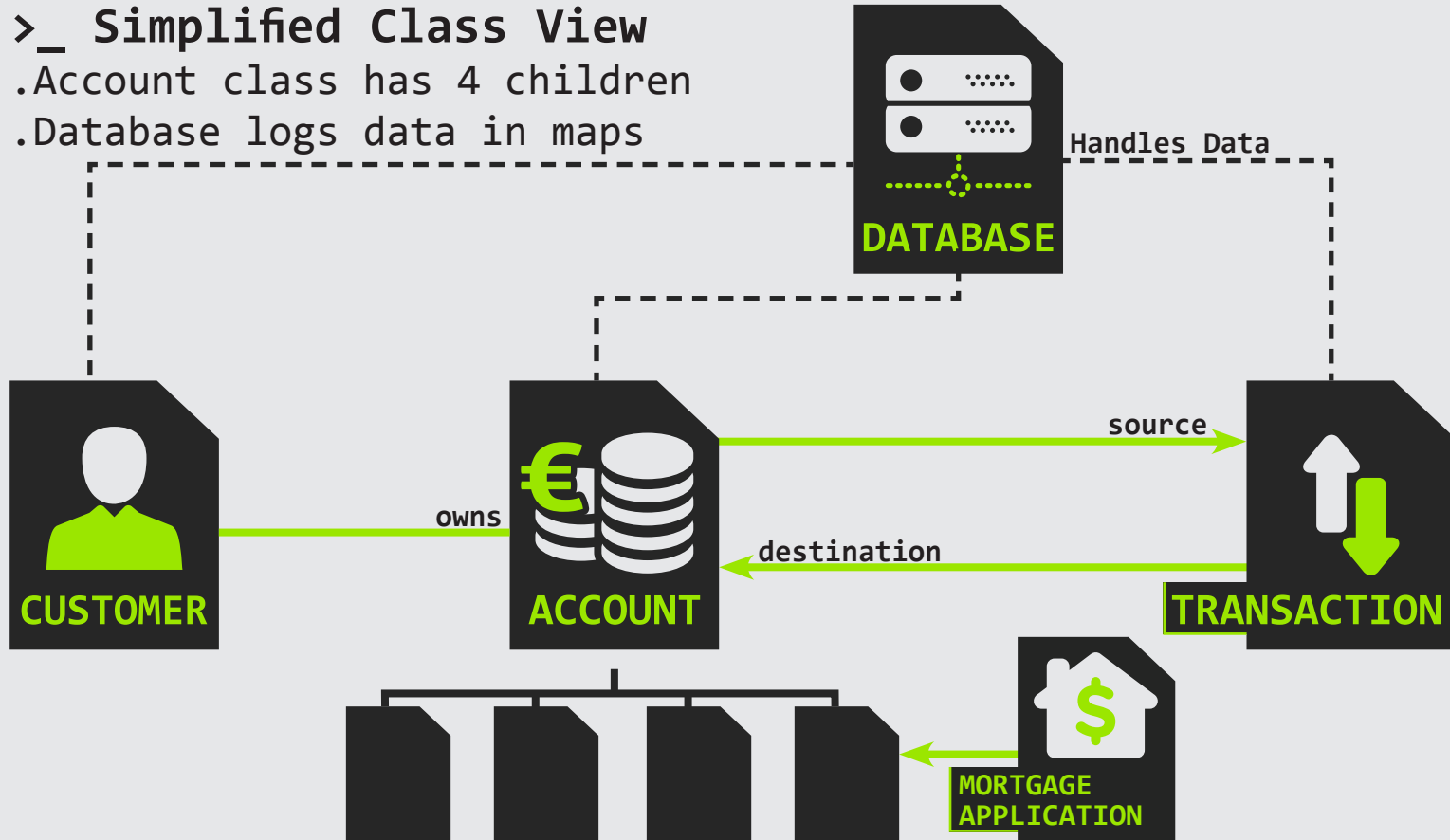


>cd ./Overview_

>_ Simplified Class View

.Account class has 4 children

.Database logs data in maps



>cd ../Class/Database_

>_ Constructor

.A database will be created as an "instance"

.Includes HashMaps for:

./account

./customer

./transaction

>_ Methods

.Every Map has several setters and getters

.Setters return the ID, which is used for the new object

>_ Outline

🟢 Database

- `accountList:Map<...>`
- `customerList:Map<...>`
- `transactionList:Map<...>`
- `Database(...)`
- `set*(...): return`
- `get*(...): return`



>cd ./Class/Customer_

>_ Constructor

- .Has 8 Attributes to set
- .Personal Details like name and address
- .The Customer Object has an ArrayList with AccountIDs

>_ Methods

- .Methods to show personal details on screen
- .Updating and removing are also included
- .Some getters and setters for other classes

>_ Outline

Customer

- .name:String
- .address:String
- .phone:String
- .sex:String
- .dob:String
- .accountList: List<Integer>
- .pin:String
- .customerId:int
- Customer(...)
- showPersonDetails(...):void
- updatePersonDetails(...):void
- removeCustomer(...):void
- ...



>cd ./Class/Account_

>_ Constructor

- .Construct mainly used for accountType
- .Children inherits constructor
- .Balance is initialized with 0
- .Saves customerID and own ID

>_ Methods

- .Methods for getting balance
- .Add and subtract money
- .Some getters and setters for other classes

>_ Outline

© Account

- .balance:double
- .creditLimit:int
- .interestRate:double
- .accountType:String
- .customerID:int
- Account(...)
- closeAccount(...):void
- getBalance(...):double
- addMoney(...):void
- subtractMoney(...):void
- setInterestRate(...):void
- setCreditLimit(...):void
- ...



```
>cd ./Class/Account/Children_
```

```
>_ accountType
```

```
.Current
```

```
.CorporateSavings
```

```
.StudentSavings
```

```
.Mortgage
```

```
.JuniorCurrent
```

```
>_ Constructor (inherited)
```

```
.Sets interest rate
```

```
.Sets credit limit
```

```
.JuniorCurrent method: isAllowed
```

```
>_ Outline
```

```
Ⓢ Account
```

```
Ⓢ Current
```

```
•Current(...)
```

```
Ⓢ CorporateSavings
```

```
•CorporateSavings(...)
```

```
Ⓢ StudentSavings
```

```
•StudentSavings(...)
```

```
Ⓢ Mortgage
```

```
•Mortgage(...)
```

```
Ⓢ JuniorCurrent
```

```
•JuniorCurrent( ... )
```

```
•isAllowed(...)
```



>cd ../Class/MortgageApplication_

>_ Constructor

- .MortgageApplication gets/sets
 - ./costumerId
 - ./accountType
 - ./yearly payment

>_ Methods

- .Interview method for user input
- .MakeMortgage sets every value with mortgageCondition

>_ Outline

- MortgageApplication
 - amount:double
 - newAccountType:String
 - newCustomerId:int
 - yearlyPay:double
 - MortgageApplication(...)
 - interview():void
 - mortgageCondition():void
 - makeMortgage():void



>cd ./Class/Transaction_

>_ Constructor

- .Includes sender, receiver and amount
- .Timestamp is created

>_ Methods

- .Withdraw, deposit and transfer
- .Accounts are selected within a method
- .Every transaction is logged in the database

>_ Outline

© Transaction

- sender:*int*
- receiver:*int*
- amount:*double*
- timeStamp:*String*
- Transaction(...)
- selectAccount(...):*int*
- inputReceiver(...):*int*
- inputAmount(...):*double*
- showTransactionLog(...):*void*



```
> javac -g LiveDemo.java
```

