

Object Diagram 1: Transferring funds

elmo-funds: Funds
amount = 350

has

elmo : User
id = 1
username = elmo132
password = gasoline
first_name = Elmo
last_name = Malrich
role = "user"
createdAt = 10/11/2020
updatedAt = 11/11/2020

ulno: User
id = 2
username = ulnonet
password = snickers
first_name = Ulrich
last_name = Nordstadt
role = "user"
createdAt = 5/11/2020
updatedAt = 6/11/2020

ulno-funds: Funds
amount = 100

has

In the beginning there are two objects ulno and elmo and they all have funds objects which contain their funds.

elmo-funds: Funds
amount = 350

has

elmo : User
id = 1
username = elmo132
password = gasoline
first_name = Elmo
last_name = Malrich
role = "user"
createdAt = 10/11/2020
updatedAt = 11/11/2020

ulno-funds: Funds
amount = 100

has

ulno: User
id = 2
username = ulnonet
password = gasoline
first_name = Ulrich
last_name = Nordstadt
role = "user"
createdAt = 5/11/2020
updatedAt = 6/11/2020

command: TransactionCommand
id = 1
operation = operation1

creates and executes

operation1: OperationCreateTransaction

creates and uses

transaction1: Transaction
id = 1
fromId = 1
toId = 2
amount = 20
description = "money for milk"
createdAt 22/11/2020

creates and uses

elmo starts transferring funds to ulno using command object which uses operation1 object to finally create a transaction.

elmo-funds: Funds
amount = 350

has

elmo : User
id = 1
username = elmo132
password = gasoline
first_name = Elmo
last_name = Malrich
role = "user"
createdAt = 10/11/2020
updatedAt = 11/11/2020

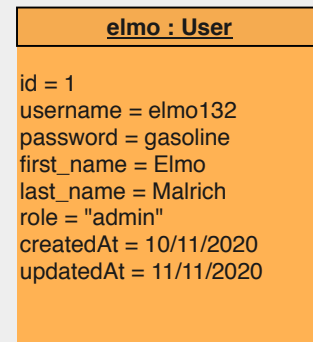
ulno: User
id = 2
username = ulnonet
password = snickers
first_name = Ulrich
last_name = Nordstadt
role = "user"
createdAt = 5/11/2020
updatedAt = 6/11/2020

ulno-funds: Funds
amount = 120

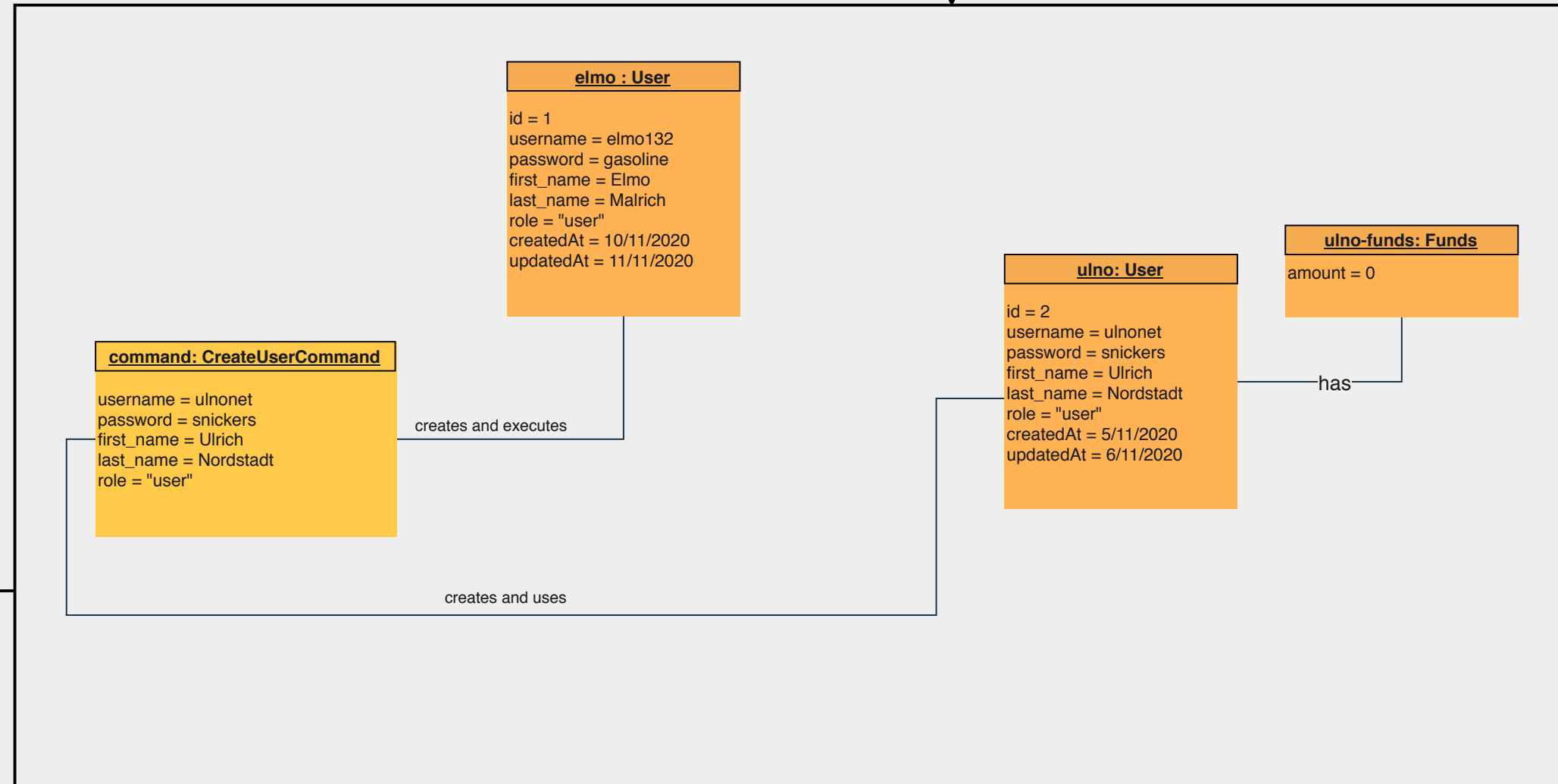
has

Finally, ulno-funds has updated amount value and transaction is saved to database.

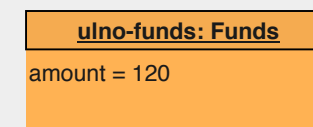
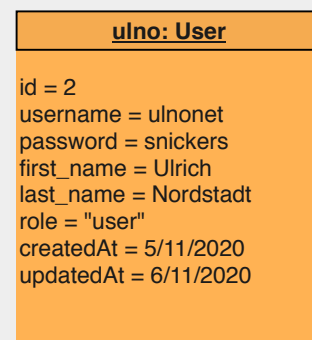
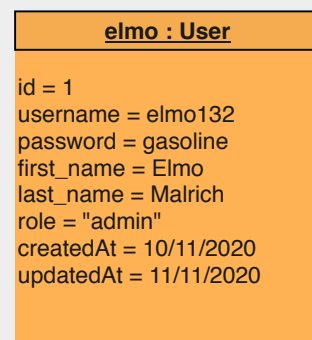
Object Diagram 2: Creating a user



In the beginning there is one objects ulno who is an administrator.

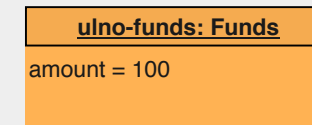
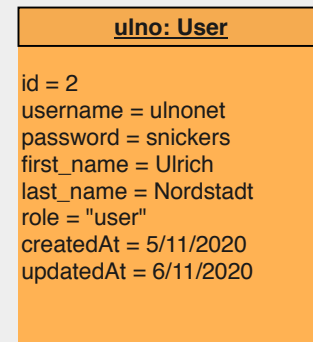
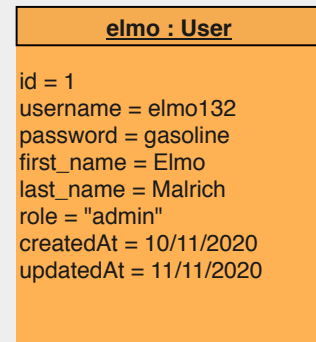


elmo starts creating new user using command object which uses operation1 object to finally create a user.



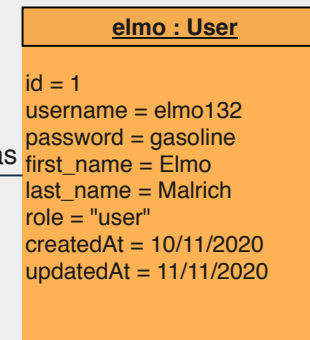
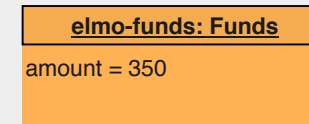
Finally, there is new user ulno.

Object Diagram 3: Deleting a user

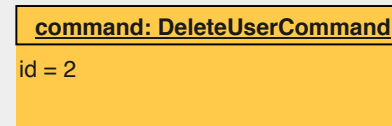


has

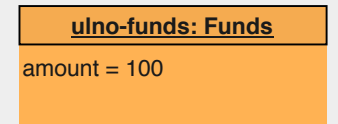
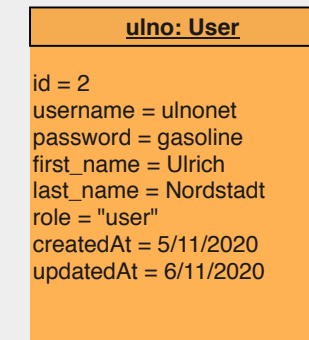
In the beginning there are two objects ulno and elmo and they all have funds objects which contain their funds.



has

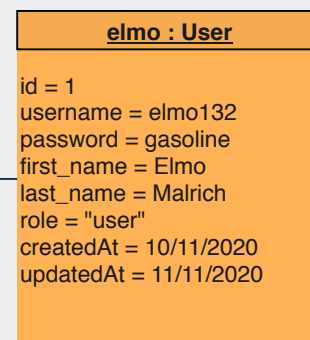
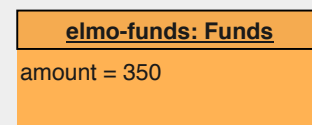


creates and executes



has

elmo starts deleting user ulno using command object which uses operation1 object to finally create a transaction.



has

Finally, there is only elmo object.