Collaboration1::Interaction7::Exit

sd Exit

: SystemUser

1 : exitProgram()
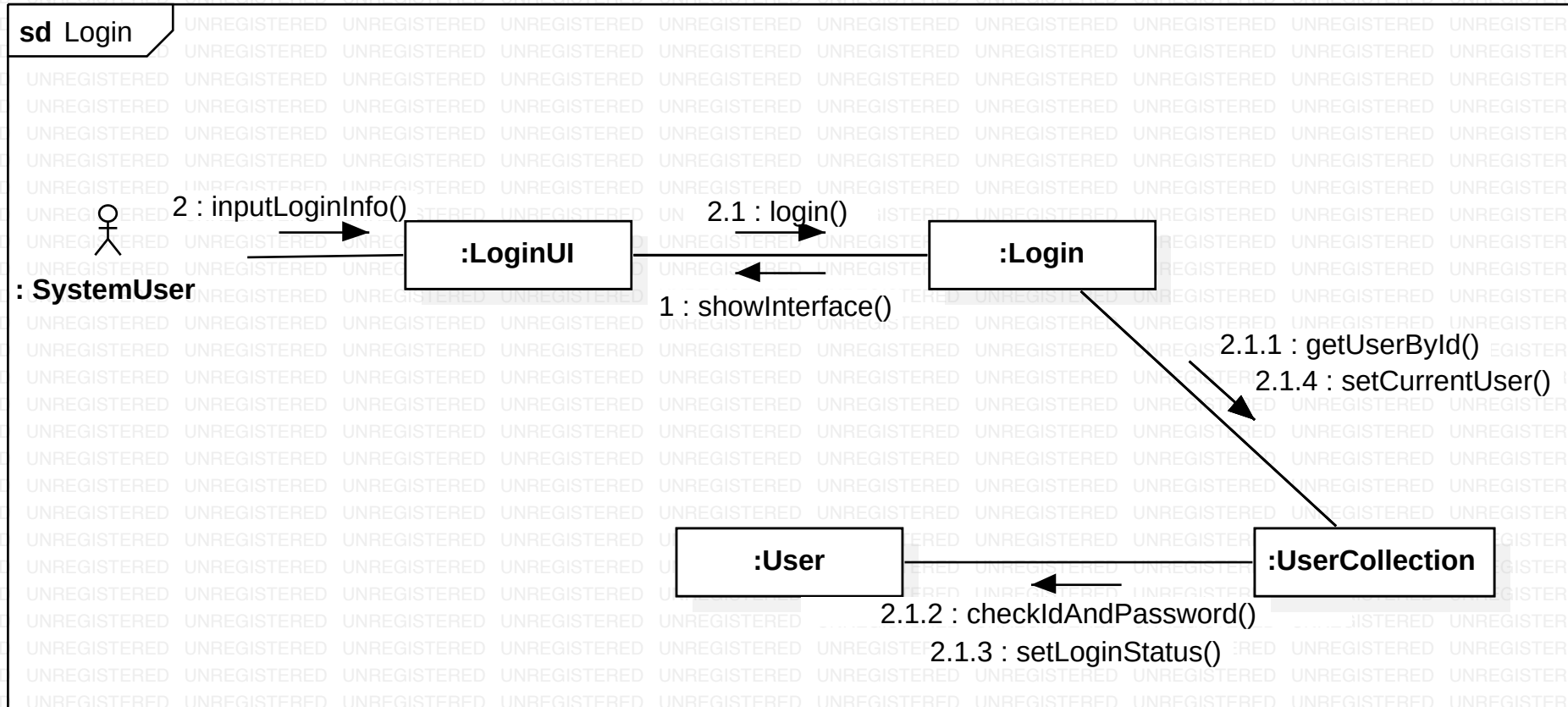
:ExitUI

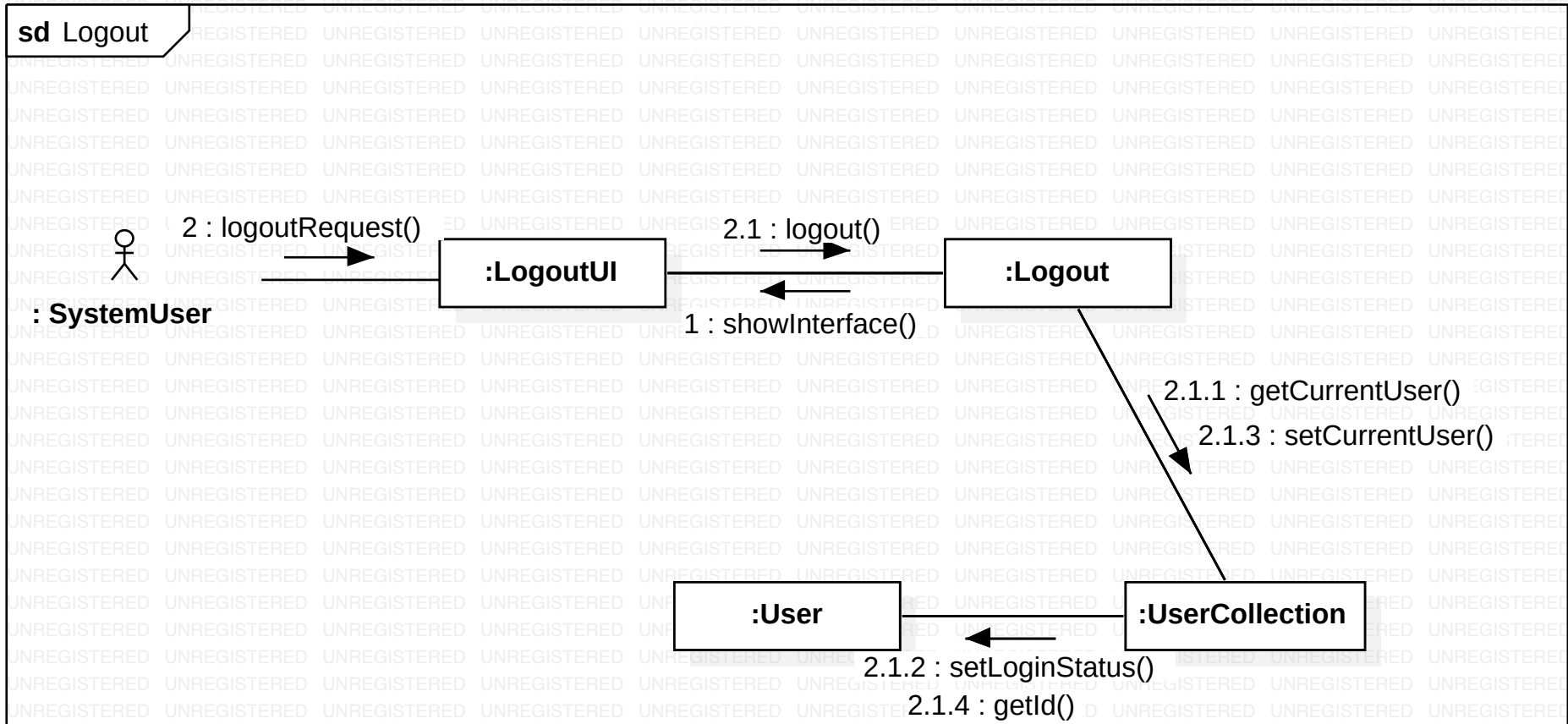2 : exit()

:Exit

Collaboration1::Interaction2::Login

sd Login

: **SystemUser**

2 : inputLoginInfo()

:LoginUI

2.1 : login()

1 : showInterface()

:Login

2.1.1 : getUserById()
2.1.4 : setCurrentUser()

:User

:UserCollection

2.1.2 : checkIdAndPassword()
2.1.3 : setLoginStatus()

Collaboration1::Interaction3::Logout

sd Logout

: **SystemUser**

2 : logoutRequest()

:LogoutUI

2.1 : logout()

:Logout

1 : showInterface()

2.1.1 : getCurrentUser()
2.1.3 : setCurrentUser()

:User

:UserCollection

2.1.2 : setLoginStatus()
2.1.4 : getId()

Collaboration1::Interaction4::RegisterBicycle

sd RegisterBicycle

: Admin

2 : inputBicycleInfo()

1 : showInterface()

:RegisterBicycleUI

:RegisterBicycle

3.1 : registerBicycle()

3.1.1 : getCurrentUser()

3.1.3 : addBicycle()

3.1.2 : Bicycle()

3.1.1.1 : getRoleType()

:User

:UserCollection

:BicycleCollection

newBicycle:Bicycle
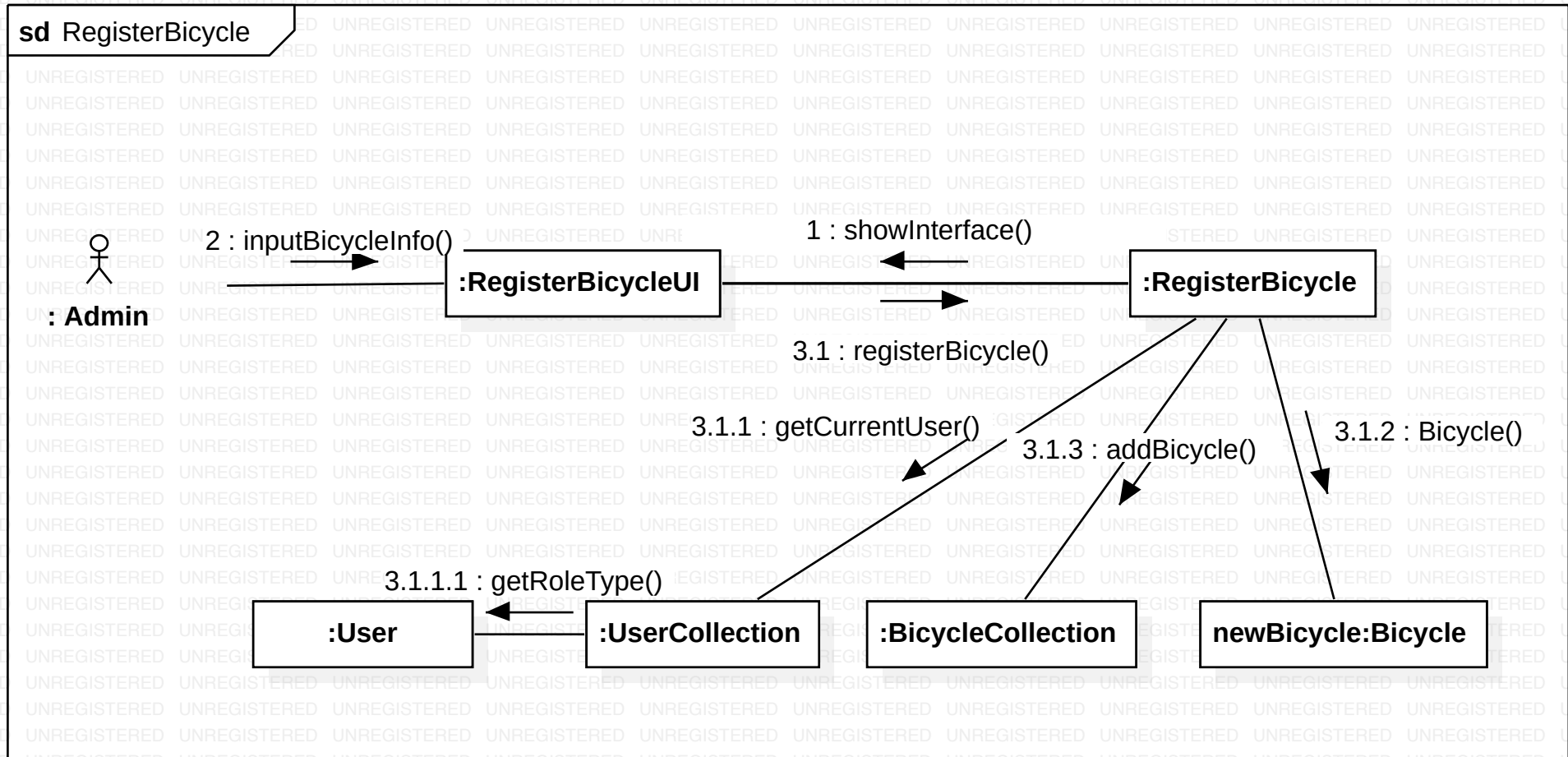
Collaboration1::Interaction5::RentalBicycle

sd RentalBicycle

: Member

2 : rentalBicycleRequest()

:RentalBicycleUI

1 : showInterface()

:RentalBicycle

3.1 : rentalBicycle()

3.1.2 : getBicycleById()

3.1.1 : getCurrentUser()

:UserCollection

:User

:BicycleCollection

:Bicycle

3.1.1.1 : getRoleType()
3.1.1.2 : addRentalBicycleList()

3.1.2.1 : getRentalStatus()
3.1.2.2 : setRentalStatus()
3.1.2.3 : getBrand()
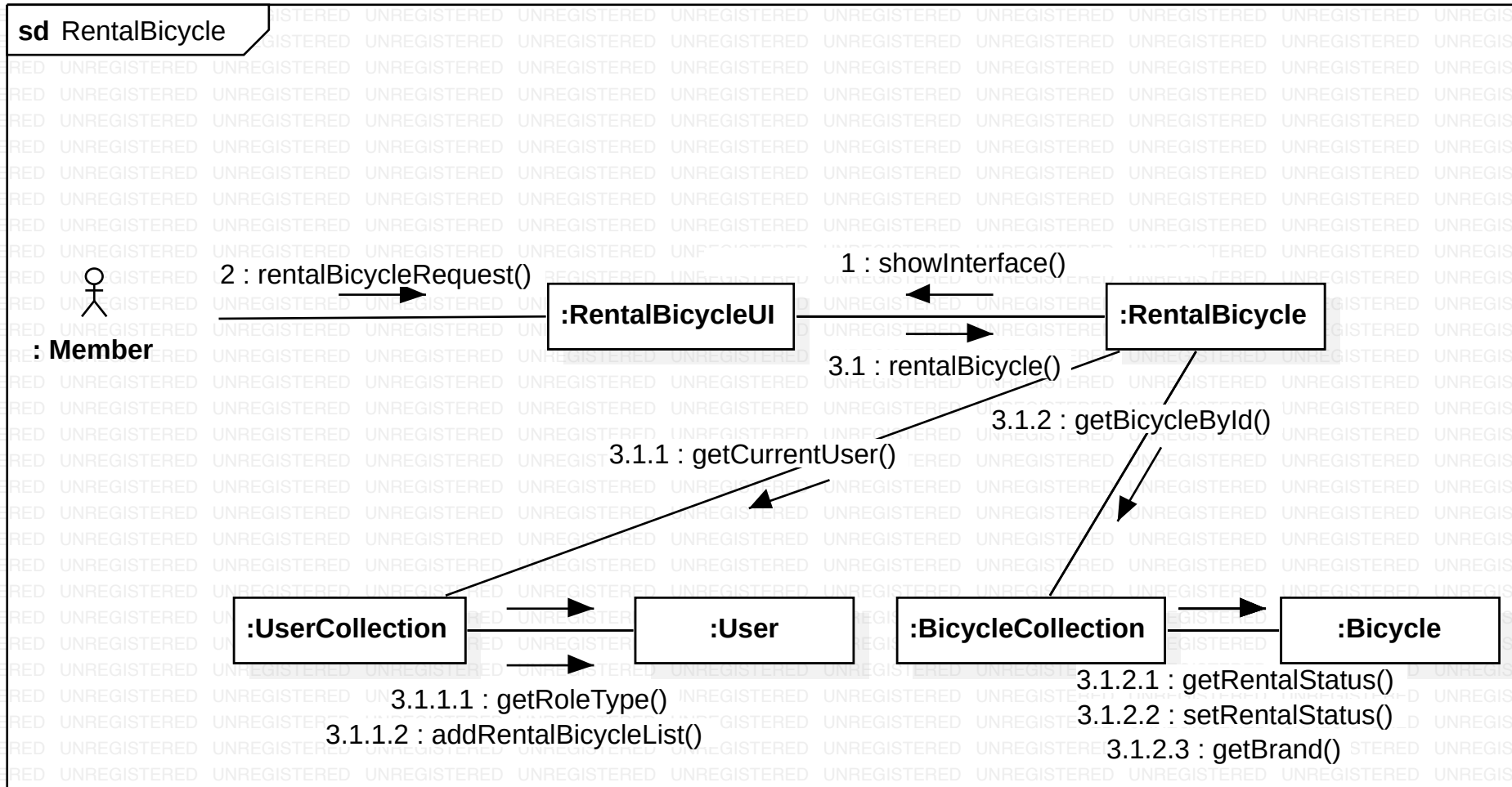
Collaboration1::Interaction1::Signup
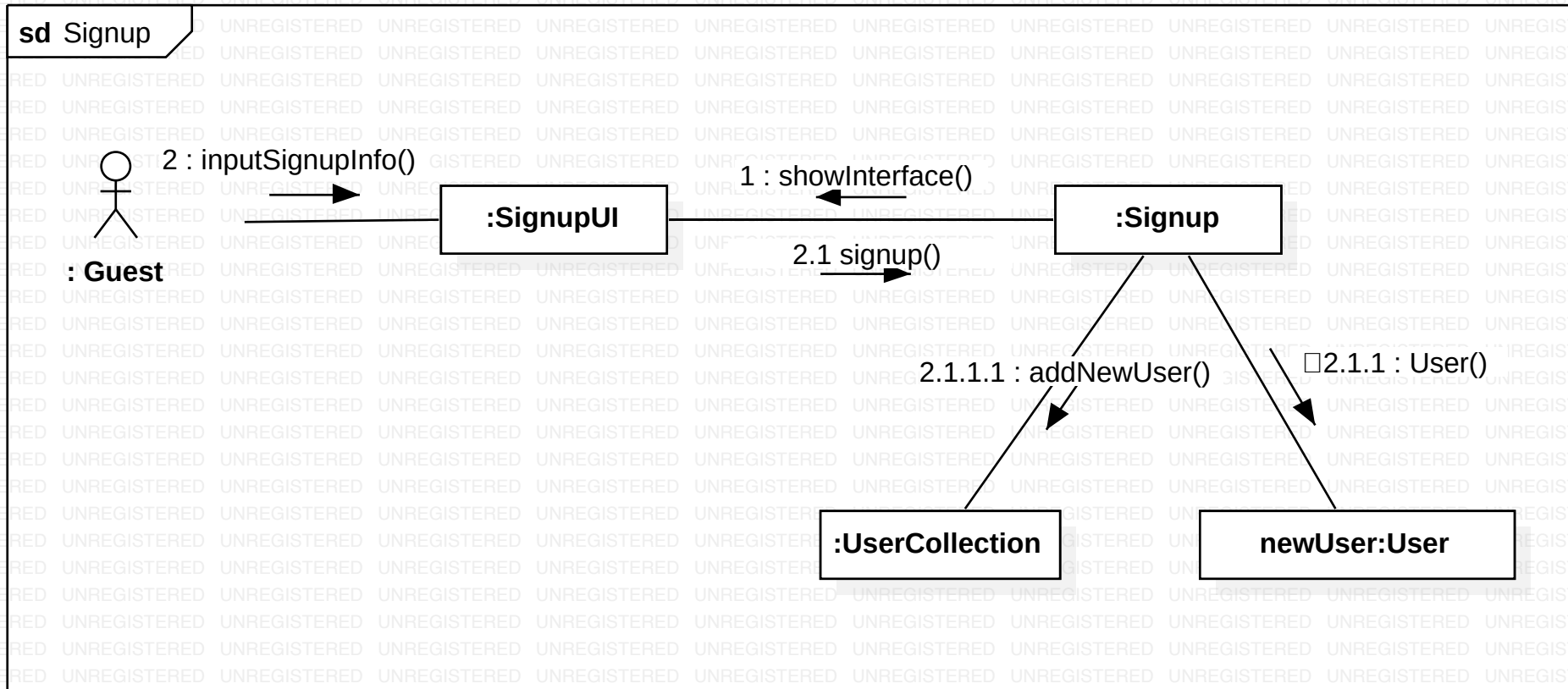
Collaboration1::Interaction6::ViewRentalInfo

sd ViewRentalInfo

: Member

2 : viewRentalInfoRequest()

1 : showInterface()

:ViewRentalInfoUI

:ViewRentalInfo

3.1 : viewRentalInfo()

3.1.2.1 [for each Bicycle] : getId()
3.1.2.2 [for each Bicycle] : getBrand()

3.1.1 : getCurrentUser()

:UserCollection

:User

:Bicycle

3.1.1.1: getRoleType()
3.1.1.2 : getRentalBicycleList()