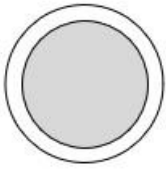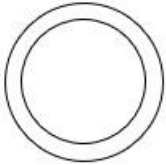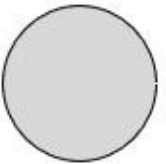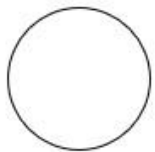# Pictographs used in the interaction diagrams

Non-instantiated data type active entity.

Non-instantiated data type passive entity.

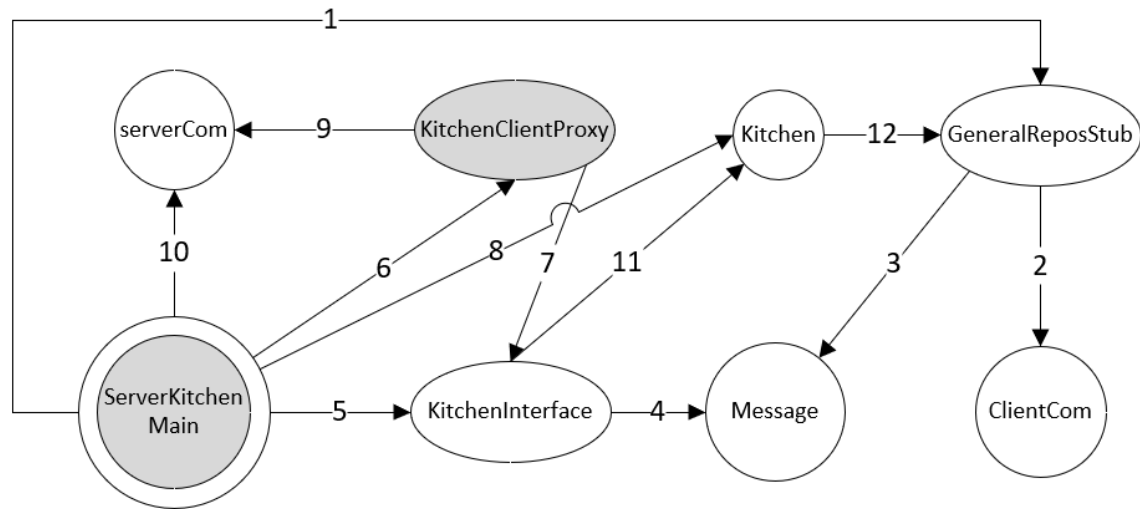Instantiated data type active entity

Instantiated data type passive entity.

Raquel Pinto – 92948
Rodrigo Martins – 93264

# Server Kitchen



1 – Instanciate

2 – Instanciate, writeObject, readObject, close, open

3 – Instanciate, getMsgType, toString

4 – Instanciate, getMsgType, getChefId, getChefState, getWaiterId, getWaiterState

5 – Instanciate

6 – Instanciate, start

7 – processAndReply

8 – Instanciate

9 - writeObject, readObject, close

10– Instanciate, accept, end, start

11 – watchTheNews, startPreparations, continuePreparation, proceedToPresentation, deliverPortion, allPortionsDelived, orderBeenCompleted, haveNextPortionReady, alertWaiter, cleanUp, handTheNoteToTheChef, collectPortion, endOperation, shutdown
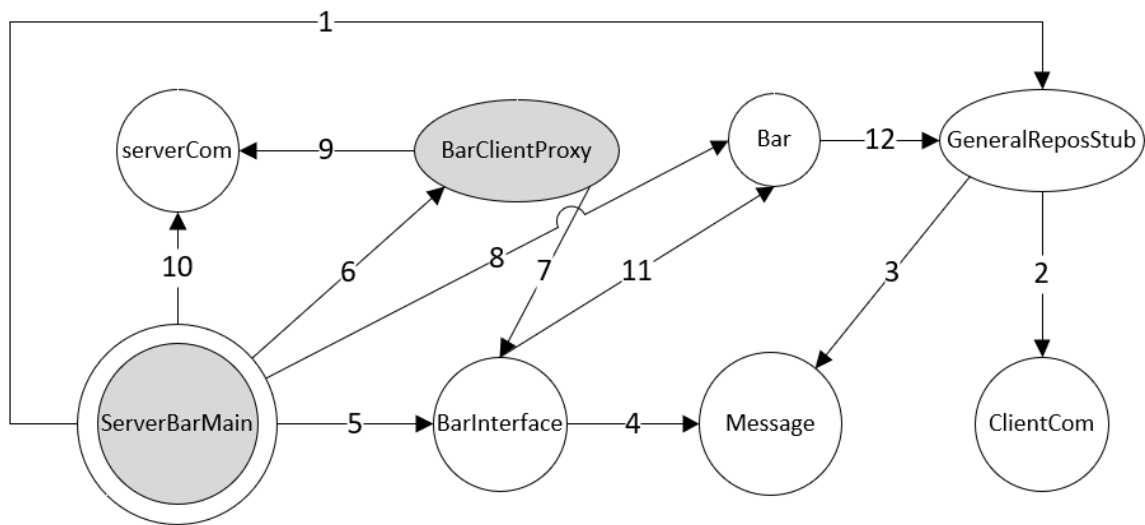
12 – setWaiterState, setChefState

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Rodrigo Martins – 93264

## Server Bar
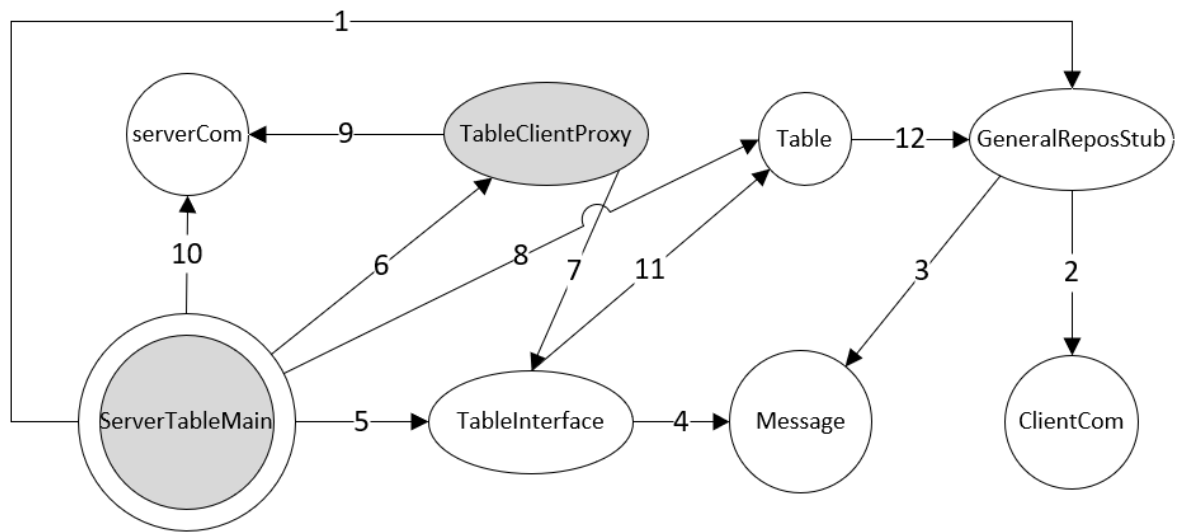


1 – Instanciate

2 – Instanciate, writeObject, readObject, close, open

3 – Instanciate, getMsgType, toString

4 – Instanciate, getMsgType, getChefId, getChefState, getWaiterId, getWaiterState, getStudentId, getStudentState

5 – Instanciate

6 – Instanciate, start

7 – processAndReply

8 – Instanciate

9 – writeObject, readObject, close

10 – Instanciate, accept, end, start

11 – lookAround, returnToTheBarAfterSalute, returnToTheBarAfterTakingTheOrder, returnToTheBarAfterPortionsDelivered, prepareBill, receivedPayment, returnToTheBar, sayGoodbye, alertWaiter, enter, callTheWaiter, signalWaiter, shouldHaveArrivedEarlier, goHome, endOperation, shutdown

12 – setWaiterState, setStudentState

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Rodrigo Martins – 93264

# Server Table
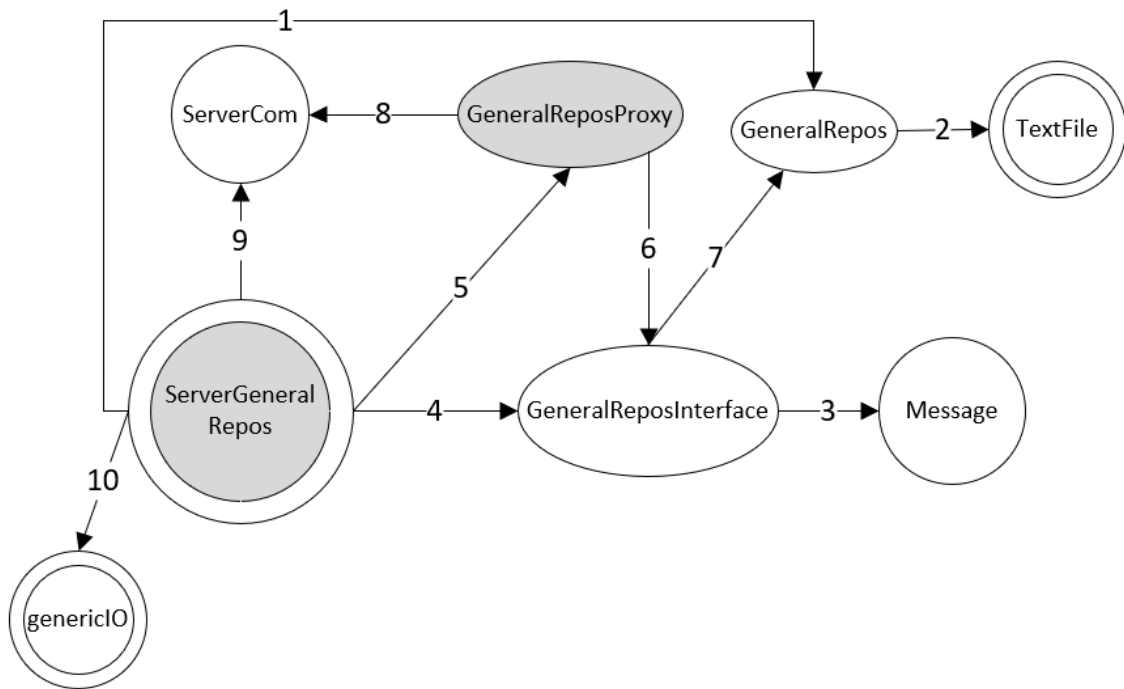


1 – Instanciate

2 – Instanciate, writeObject, readObject, close, open

3 – Instanciate, getMsgType, toString

4 – Instanciate, getMsgType, getWaiterId, getWaiterState, getStudentId, getStudentState

5 – Instanciate

6 – Instanciate, start

7 – processAndReply

8 – Instanciate

9 – writeObject, readObject, close

10 – Instanciate, accept, end, start

11 – saluteTheClient, saluteTheClient, haveAllPortionsBeenServed, deliverPortion, presentBill, takeASeat, selectingCourse, firstToEnter, informCompanions, organizeOrder, describeOrder, chat, enjoyMeal, lastToEat, chatAgain, waitForEveryoneToFinish, lastToEnterRestaurant, honorTheBill, endOperation, shutdown

12 – setWaiterState, setPortionsDelivered, setCoursesDelivered, setStudentState, setStudentSeat

Raquel Pinto – 92948
Rodrigo Martins – 93264

## Server GeneralRepos



1 – Instanciate

2 – Instanciate, openForWriting, writelnString, close, openForAppending

3 – Instanciate, getMsgType, getWaiterId, getWaiterState, getStudentId, getStudentState, getChefId, getChefState, getPortionsDelivered, getCoursesDelivered, getLogFName, getSeat

4 – Instanciate

5 – Instanciate, start

6 – processAndReply

7 – initSimul, setStudentState, setWaiterState, setChefState, setStudentSeat, shutdown, setPortionsDelivered, setCoursesDelivered

8 – writeObject, readObject, close

9 – Instanciate, accept, end, start

10– writelnString

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Rodrigo Martins – 93264

# Client the Restaurant Student
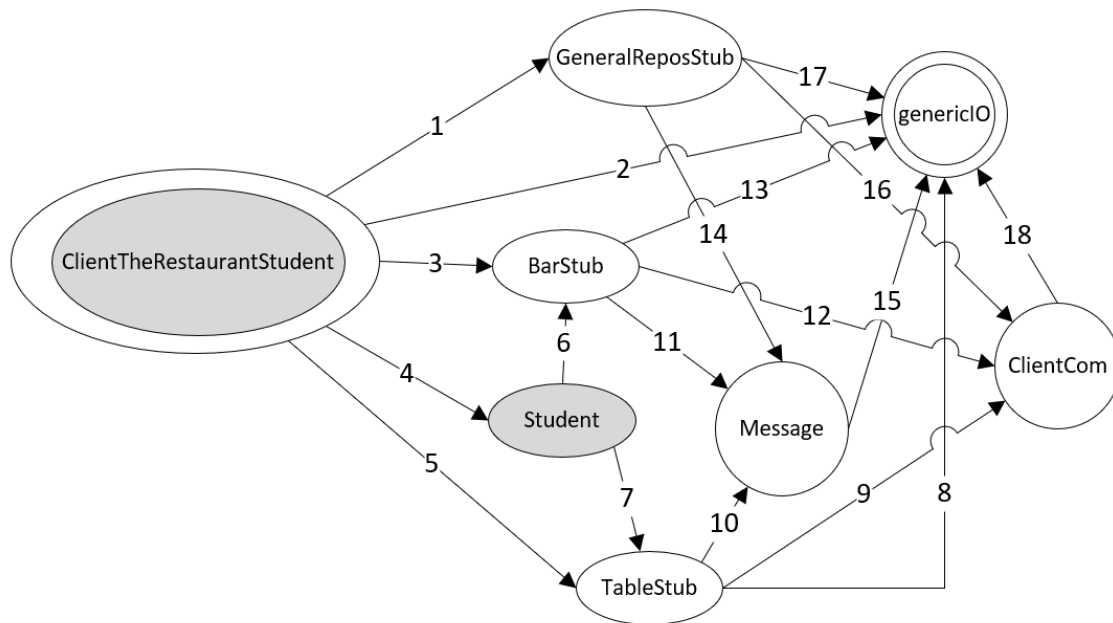


1 – Instanciate, shutdown
2 – writelnString
3 – Instanciate, shutdown
4 – Instanciate, start, join
5 – Instanciate, shutdown
6 – enter, callTheWaiter, signalWaiter, shouldHaveArrivedEarlier, goHome
7 – takeASeat, selectingCourse, informCompanions, organizeOrder, describeOrder, chat, enjoyMeal, lastToEat, waitForEveryoneToFinish, lastToEnterRestaurant, honorTheBill
8 – writelnString
9 – Instanciate, writeObject, readObject, close, open
10 – Instanciate, getMsgType, getHaveAllPortionsBeenServed, getWaiterState, toString, getFirstToEnter, getLastToEat, getlastToEnter, getWaiterId, getStudentState, getStudentId
11 – Instanciate, getMsgType, getOp, getWaiterState, getWaiterId, getChefState, getChefId, getStudentState, getStudentId, toString
12 – Instanciate, writeObject, readObject, close, open
13 – writelnString
14 – Instanciate, getMsgType, toString
15 – writelnString
16 – Instanciate, writeObject, readObject, close, open
17 – writelnString
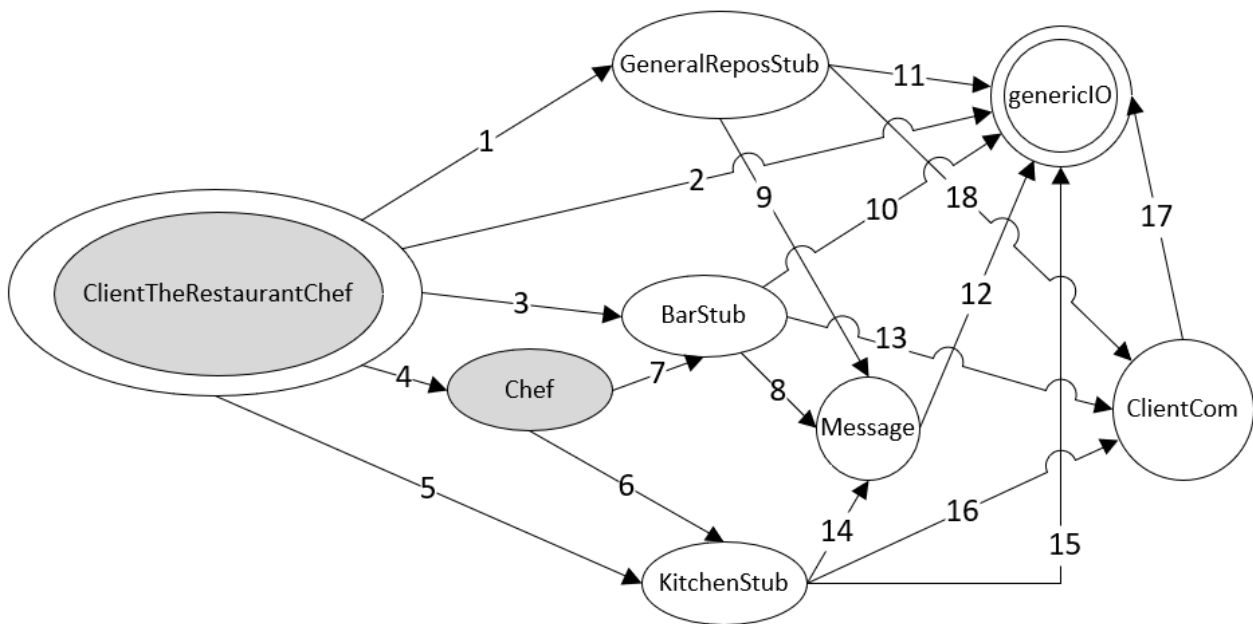18 – writelnString

Raquel Pinto – 92948
Rodrigo Martins – 93264

# Client the Restaurant Waiter



1 – Instanciate, shutdown

2 – writelnString

3 – Instanciate, shutdown

4 – Instanciate, start, join

5 – Instanciate, shutdown

6 – Instanciate, shutdown

7 – SaluteTheClient, getThePad, haveAllPortionsBeenServed, deliverPortion, presentBill

8 – handTheNoteToTheChef, collectPortion

9 – lookAround, returnToTheBarAfterSalute, prepareBill, returnToTheBar, returnToTheBarAfterTakingTheOrder, returnToTheBarAfterPortionsDelivered, sayGoodbye, receivedPayment

10 – Instanciate, getMsgType, getOp, getWaiterState, getWaiterId, getChefState, getChefId, getStudentState, getStudentId, toString

11 – writelnString

12 – Instanciate, getMsgType, getWaiterState, getWaiterId, getChefState, getChefId, getAllPortionDelivered, getOrderCompleted, toString

13 – Instanciate, getMsgType, toString

14 – Instanciate, writeObject, readObject, close, open

15 – writelnString

16 – Instanciate, writeObject, readObject, close, open

17 – Instanciate, open, close, writeObject, readObject

18 – writelnString

19 – writelnString

20 – Instanciate, toString, getMsgType, getWaiterState, getWaiterId, getStudentState, getHaveAllPortionsBeenServe, getStudentId, getFirstToEnter, getLastToEat, getlastToEnter,

21 – writelnString

22 – writelnString

23 – Instanciate, writeObject, readObject, close, open

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Rodrigo Martins – 93264

# Client the Restaurant Chef



1 – Instanciate, shutdown

2 – writelnString

3 – Instanciate, shutdown

4 – Instanciate, start, join

5 – Instanciate, shutdown

6 – watchTheNews, startPreparations, continuePreparation, proceedToPresentation, deliverPortion, allPortionsDelived, haveNextPortionReady, alertWaiter, deliverPortion, orderBeenCompleted, cleanUp

7 – alertWaiter

8 – Instanciate, getMsgType, getOp, getWaiterState, getWaiterId, getChefState, getChefId, getStudentState, getStudentId, toString

9 – Instanciate, getMsgType, toString

10 – writelnString

11 – writelnString

12 – writelnString

13 – Instanciate, writeObject, readObject, close, open

14 – Instanciate, getMsgType, getWaiterState, getWaiterId, getChefState, getChefId, getAllPortionDelivered, getOrderCompleted, toString

15 – writelnString

16 – Instanciate, writeObject, readObject, close, open

17 – writelnString

18 – Instanciate, open, close, writeObject, readObject

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Rodrigo Martins – 93264