SISTEMAS DISTRIBUÍDOS
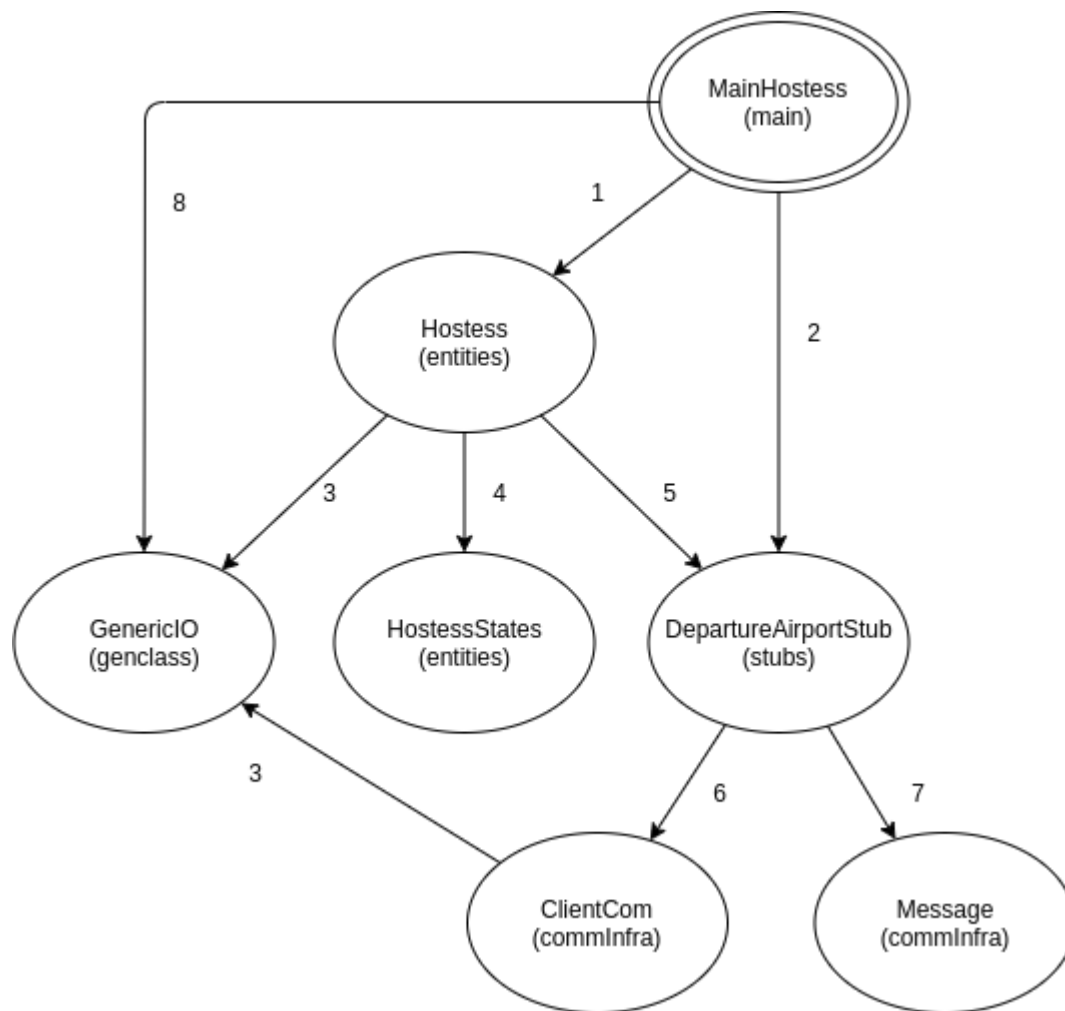
DIAGRAMAS DE INTERAÇÃO TRABALHO 2

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Client Side

Hostess

1 - inst, start, join
2, 4 - inst
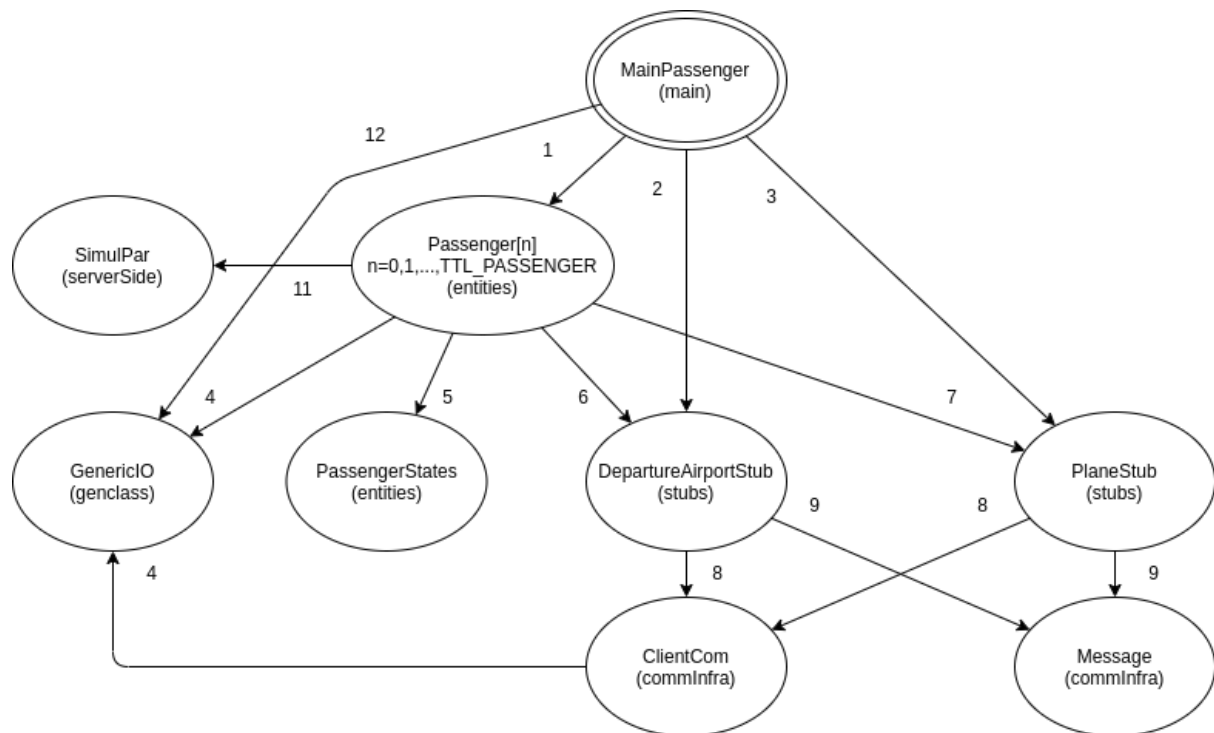3 - readlnInt, readlnChar, readlnString, writeString, writelnString
5 - prepareForPassBoarding, waitForNextPassenger, checkDocuments,
informPlaneReadyToTakeOff, waitForNextFlight
6 - inst, open, writeObject, readObject
7 - inst, prepareForPassBoarding, waitForNextPassenger, checkDocuments,
informPlaneReadyToTakeOff, waitForNextFlight
8 - readlnInt, readlnChar, readlnString, writeString, writelnString

Passenger

1 - inst, start, join

2, 3, 5, 11 - inst

4 - readlnInt, readlnChar, readlnString, writeString, writelnString
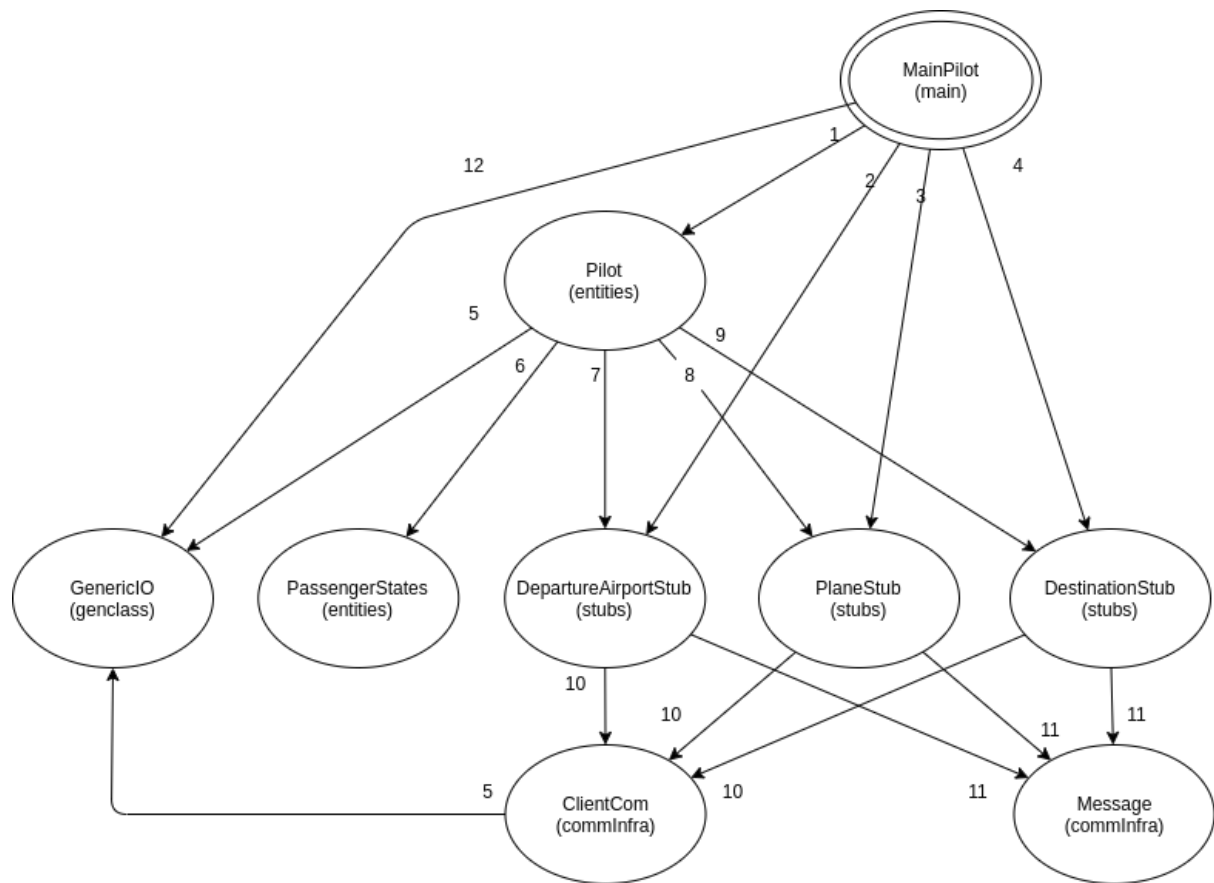
6 - waitInQueue, showDocuments

7 - boardThePlane, waitForEndOfFlight, leaveThePlane

8 - inst, open, writeObject, readObject

9 - inst, boardThePlane, waitForEndOfFlight, leaveThePlane, waitInQueue, showDocuments

12 - inst, open, writeObject, readObject

Pilot

1 - inst, start, join

2, 3, 4, 6 - inst

5 - readlnInt, readlnChar, readlnString, writeString, writelnString

7 - parkAtTransferGate, serviceEnd, informPlaneReadyForBoarding, waitForAllInBoard

8 - serviceEnd, flyToDestinationPoint, announceArrival
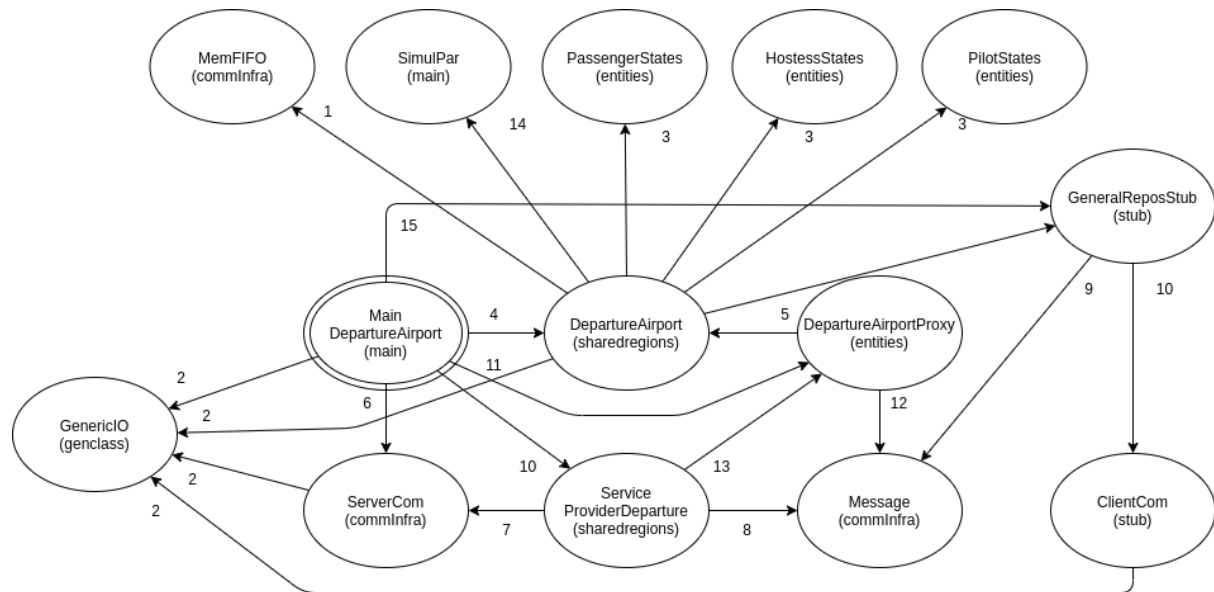
9 - serviceEnd, flyToDeparturePoint

10 - inst, open, writeObject, readObject

11 - inst, parkAtTransferGate, serviceEnd, informPlaneReadyForBoarding,
waitForAllInBoard, serviceEnd, flyToDestinationPoint, announceArrival, flyToDeparturePoint

12 - readlnInt, readlnChar, readlnString, writeString, writelnString

Server Side

Departure Airport

1 - inst, start, join

2 - readlnInt, readlnChar, readlnString, writeString, writelnString

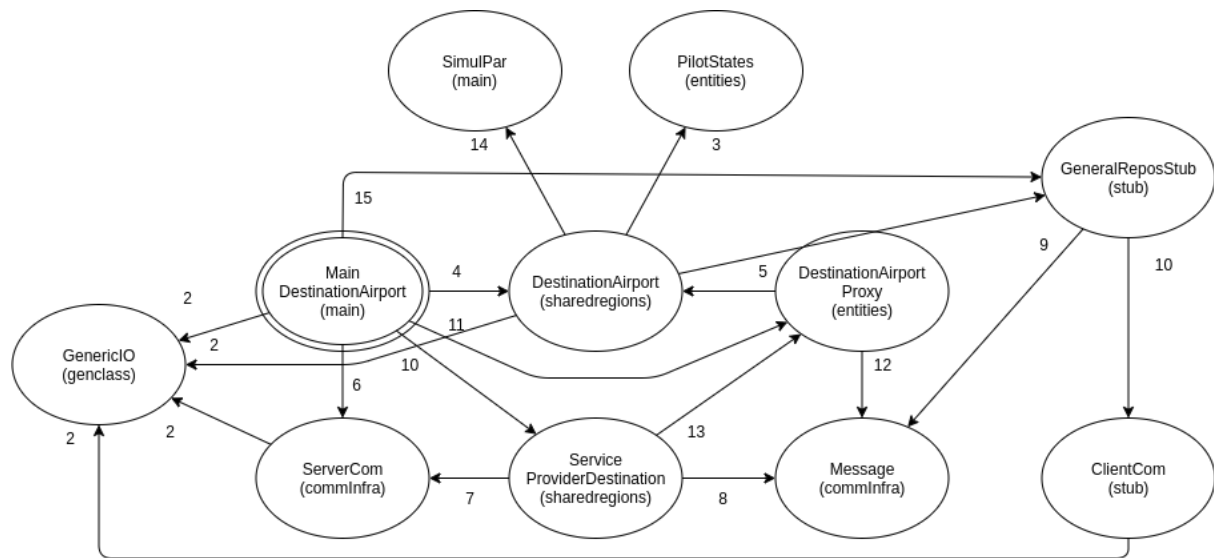3, 4, 6, 8, 9, 11, 12, 14, 15 - inst

4 - inst

5 - parkAtTransferGate, waitForNextPassenger, informPlaneReadyForBoarding, waitForAllInBoard, prepareForPassBoarding, waitInQueue, showDocuments, checkDocuments, informPlaneReadyToTakeOff, allPassengLeft, waitForNextFlight, serviceEnd

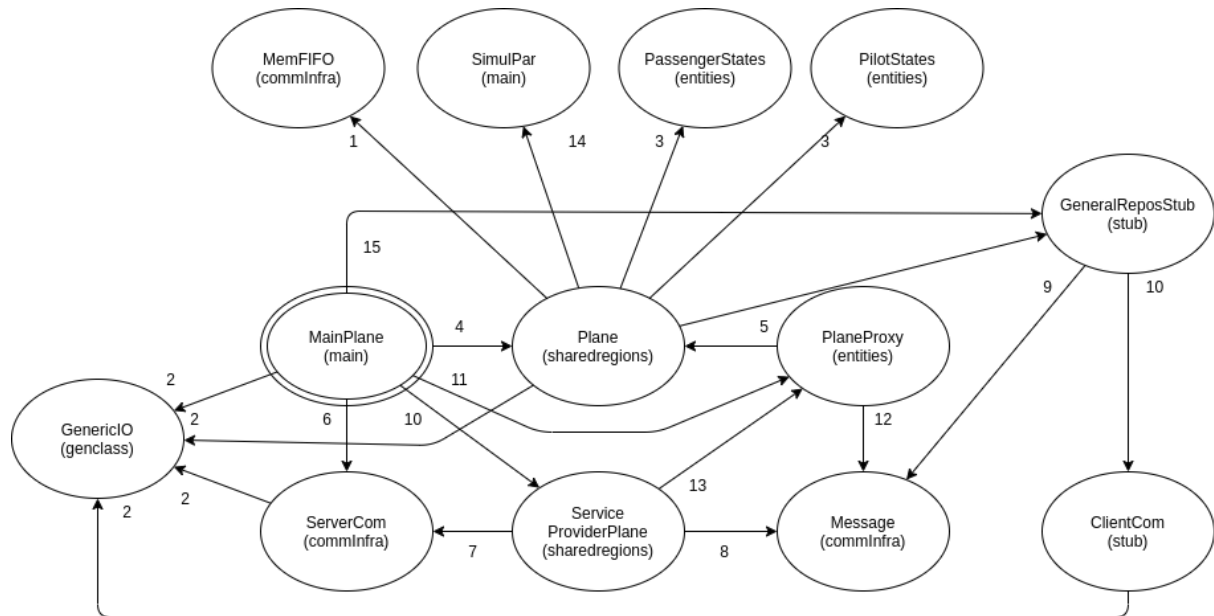7 - readObject, writeObject, close

10 - instantiate, start

13 - processAndReply

Destination Airport

1 - inst, start, join

2 - readlnInt, readlnChar, readlnString, writeString, writelnString

3, 4, 6, 8, 9, 11, 12, 14, 15 - inst

5 - flyToDeparturePoint

7 - readObject, writeObject, close

10 - instantiate, start

13 - processAndReply

Plane

1 - inst, start, join
2 - readlnInt, readlnChar, readlnString, writeString, writelnString
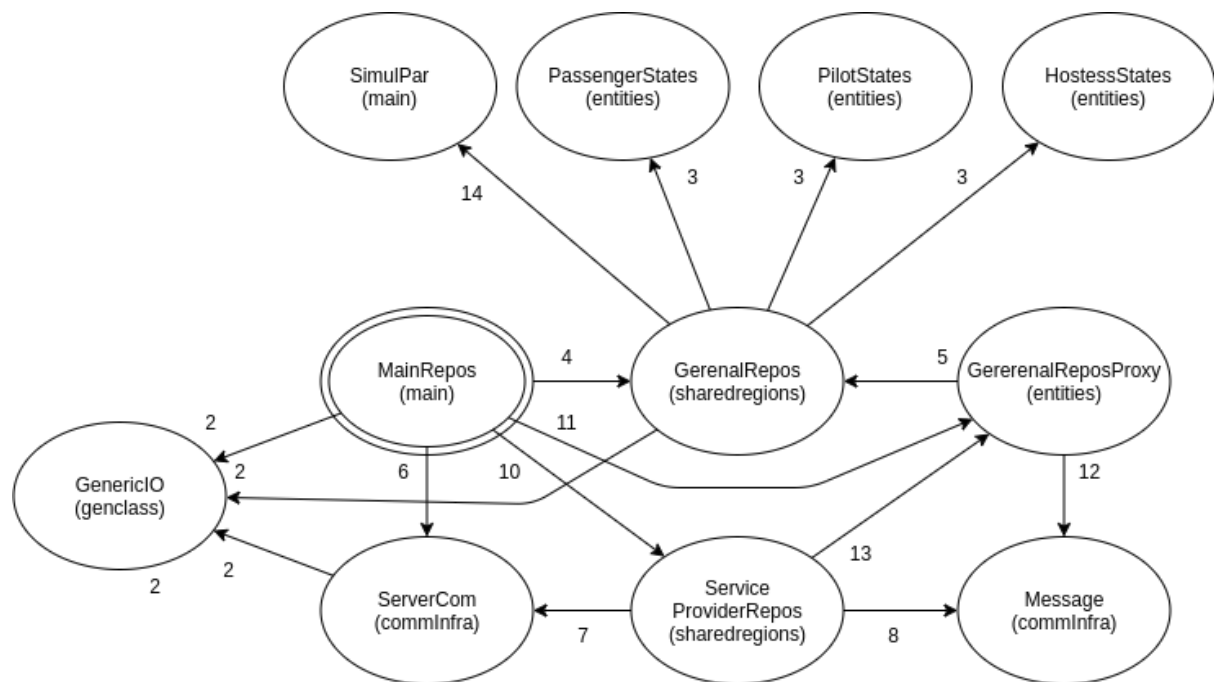3, 4, 6, 8, 9, 11, 12, 14, 15 - inst
5 - boardThePlane, flyToDestinationPoint, waitForEndOfFlight, announceArrival,
leaveThePlane
7 - readObject, writeObject, close
10 - instantiate, start
13 - processAndReply

General Repository

2 - readlnInt, readlnChar, readlnString, writeString, writelnString

3, 4, 6, 8, 11, 12 - inst

5 - print, printFinal, setPassengerState, setHostessState, setPilotState, addToQ, removeFromQ, addToF, removeFromF, addToTotal, updateFlightInfo, getTotal

7 - readObject, writeObject, close

10 - instantiate, start

13 - processAndReply