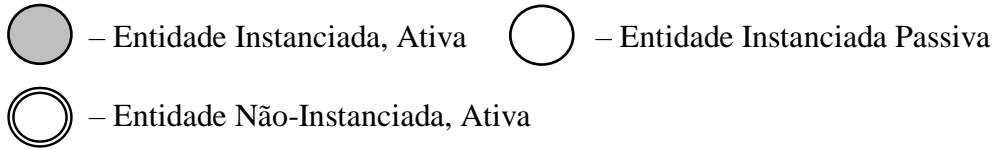


## The Restaurant Problem – Versão Distribuída

### Diagramas de Interação

#### *Legenda:*



#### *Abreviaturas:*

scon: serverCom

cc: ClientCom

repo: GeneralRepository

#### *Diagramas das Regiões Partilhadas:*

1,2,3,4,5 – instanciação do objecto

6 – providência de um servidor para a região partilhada

7 – readObject(), writeObject(), close()

8 – processAndReply()

9 – (ponto 10) + shutdown()

10 – table diagram – walkABit(), saluteTheStudent(), readTheMenu(), informCompanion(), hasEverybodyChosen(), prepareTheOrder(), getThePad(), describeTheOrder(), joinTheTalk(), startEating(), endEating(), presentTheBill(), shouldHaveArrivedEarlier(), exit()

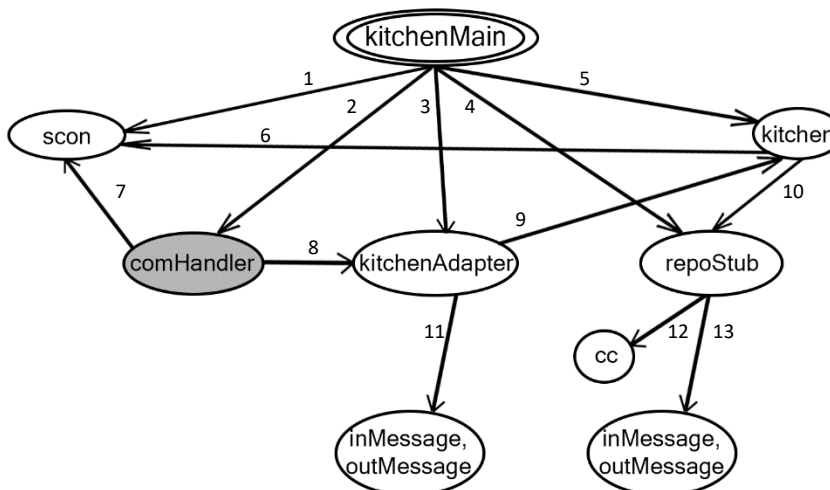
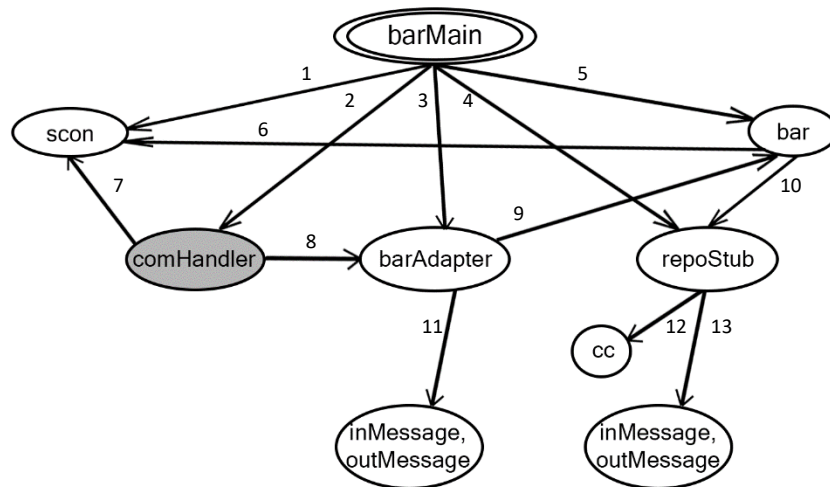
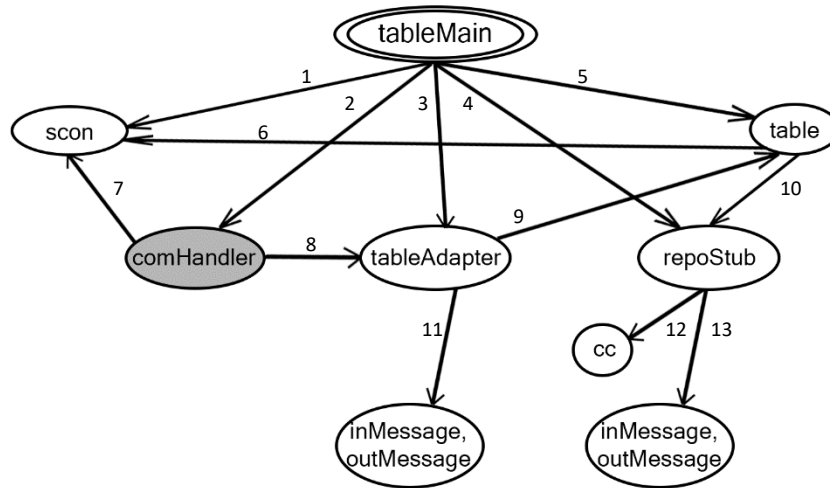
– bar diagram – lookAround(), enter(), returnToTheBar(), alertTheWaiter(), prepareTheBill()

– kitchen diagram – watchTheNews(), handTheNoteToTheChef(), startPreparation(), proceedToPresentation(), haveNextPortionReady(), collectPortion(), hasTheOrderBeenCompleted(), continuePreparation(), cleanUp()

11,13 – getMsgType(), getStudentId(), getnCourse(), getWaiterAlternative(), getArrivalOrder(), getStudentState(), getWaiterState(), getChefState()

12 – open(), readObject(), writeObject(), close()

**Diagramas:**



***Diagramas das Entidades:***

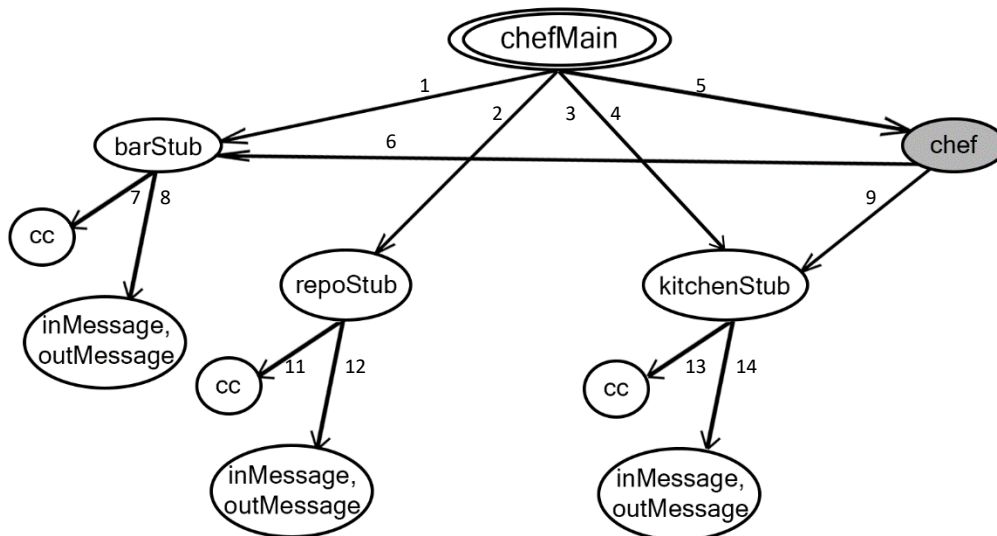
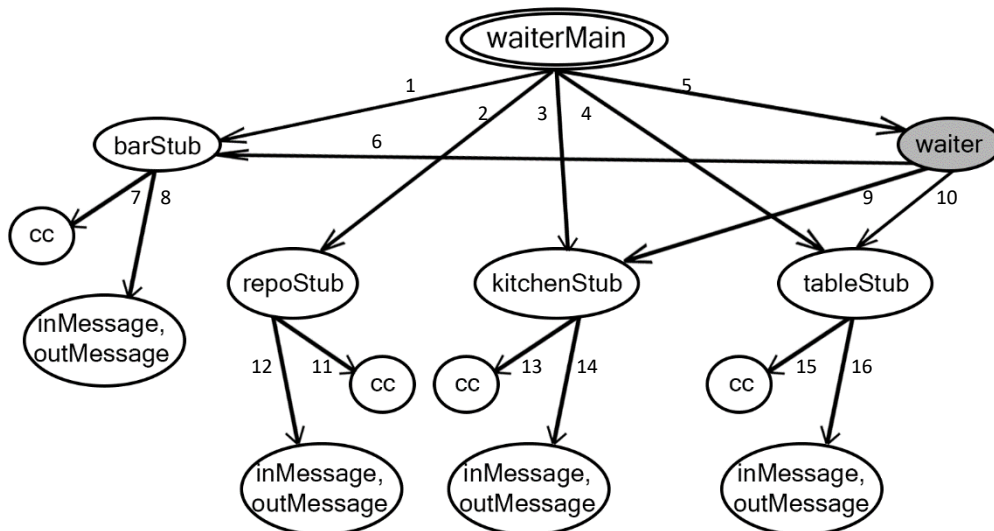
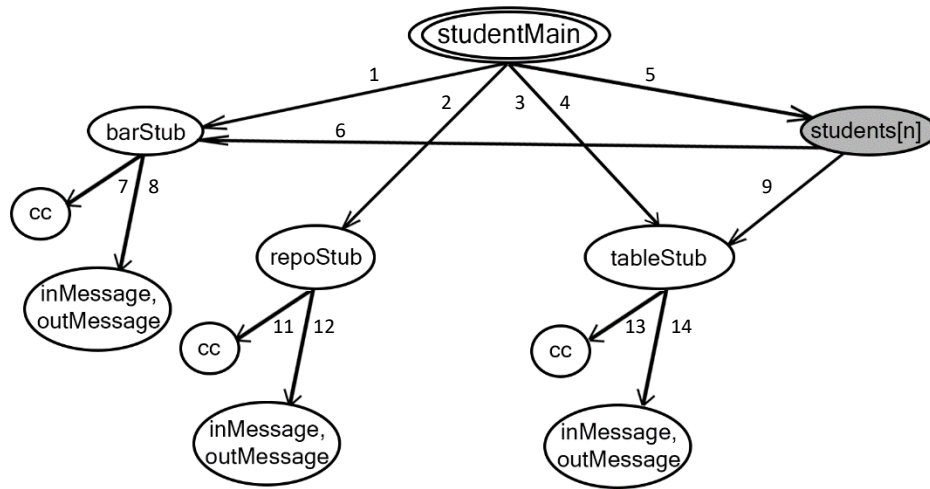
1,2,3,4,5 – instanciação do objecto

6,9,10 – conceder acesso às regiões partilhadas através dos respetivos stubs

7,11,13,15 – todos os métodos dos stubs (table, bar, kitchen, repo)

8,12,14,16 – getMsgType(), getStudentId(), getnCourse(), getWaiterAlternative(),  
getArrivalOrder(), getStudentState(), getWaiterState(), getChefState()

**Diagrams:**



***Diagramas do Repositório Geral:***

1,2,3,4,5 – instanciação do objecto

6,7 – providência de um servidor para a região partilhada

8 – readObject(), writeObject(), close()

9 – processAndReply()

10 – updateChefState(), updateCourse(), updateStudentState(), updateWaiterState(),  
isEveryStudentEating(), HaveAllStudentLeft(), shutdown()

11 – openForWriting(), writeString(), openForAppending(), close()

12 – getMsgType(), getStudentId(), getnCourse(), getWaiterAlternative(), getArrivalOrder(),  
getStudentState(), getWaiterState(), getChefState()

*Diagrama:*

