

Distributed Systems: Java RMI session 2

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November 11, 2016

1 Overview

First, describe in 1 or 2 paragraphs the overview of your design. Which are the core parts/components and their responsibilities? This is not a sequential story! Next, at least the following design decisions should be discussed.

1.1 Serializable classes

Which classes are serializable and why?

- Car, CarRentalCompanyRemote, CarType, Quote, Reservation, ReservationConstraints
- RentalAgencyRemote, ManagerSessionRemote, ReservationSessionRemote

1.2 Remote classes

Which classes are remotely accessible and why?

- CarRentalCompanyRemote, RentalAgencyRemote, ManagerSessionRemote, ReservationSessionRemote

Which remote objects are located at the same host (or not) and why?

Which remote objects are registered via the built-in RMI registry (or not) and why?

1.3 Life cycle management

Briefly explain the approach you applied to achieve life cycle management of sessions.

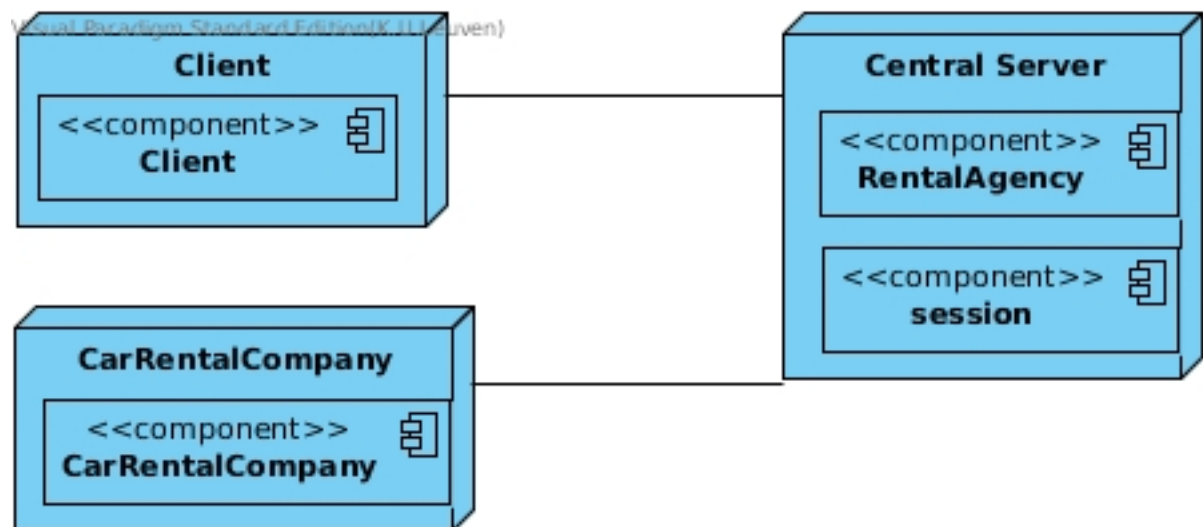
1.4 Synchronization

At which places is synchronization necessary to achieve thread-safety? Will those places become a bottleneck by applying synchronization?

2 Full class diagram

See 'class-diagram.jpg'.

3 Deployment diagram



4 Sequence diagram

Sequence diagrams of the booking process have been included in the project. See 'sequence-diagram-success.jpg' and 'sequence-diagram-fail.jpg'.