

OCL

"Experts cannot be double booked. In other words, a service by a single expert cannot be available to multiple clients on the same day and time."

context ServiceRequest

inv: ServiceRequest.allInstances()

->**select**(sr | sr.expert = **self**.expert and sr <> **self** and sr.date = **self**.date)

->**forAll**(sr | sr.endTime <= **self**.startTime or sr.startTime >= **self**.endTime)

"A consulting service for an auction visit may be available during a time that is within the availability of the auction house."

context ServiceRequest

inv: **self**.startTime >= **self**.auctionHouse.availableStartTime and **self**.endTime <=

self.auctionHouse.availableEndTime

"A client does not have multiple requests on the same day and time slot." (either same or overlapping); for example, a request for service on Monday 3pm – 4pm and another also on Monday 3:30pm - 4:30pm should not be acceptable.

context ServiceRequest

inv: ServiceRequest.allInstances()

->**select**(sr | sr.client = **self**.client and sr <> **self** and sr.date = **self**.date)

->**forAll**(sr | sr.endTime <= **self**.startTime or sr.startTime >= **self**.endTime)