

## OCL Expressions:

1. "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 Expert
inv:
    self.service->forAll(s1, s2 |
        s1 <> s2 implies
        not (s1.date = s2.date and s1.endTime = s2.endTime and s1.startTime =
s2.startTime)
    )
```

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

```
context Consulting
inv:
    EventSchedule.allInstances()->exists(es |
        self.date = es.schedule.date and
        self.time >= es.schedule.time and
        self.time < es.schedule.endTime
    )
```

3. "A client does not have multiple requests on the same day and time slot." (either same or overlapping);

```
context Client
inv:
    self.serviceRequests->forAll(r1, r2 |
        r1 <> r2 implies
        r1.date <> r2.date or
        r1.endTime <= r2.startTime or
        r2.endTime <= r1.startTime
    )
```