

1. Location must have a valid city and name:

context Location

inv ValidLocationDetails:

not self.name.ocllsUndefined() and not self.city.ocllsUndefined() and self.name <> "" and self.city <> ""

2. Schedule's start time must be before the end time:

context Schedule

inv ValidTimeRange:

self.startTime < self.endTime

3. Client must be at least 18 years old or have a guardian if under 18:

context Client

inv ValidAgeOrGuardian:

(self.age >= 18) or (self.age < 18 and not self.guardianId.ocllsUndefined())

4. An offering must be associated with valid existing entities (Instructor, Location, Schedule):

context Offering

inv ValidEntities:

not self.instructorId.ocllsUndefined() and not self.locationId.ocllsUndefined() and not self.scheduleId.ocllsUndefined()

5. A booking must have a status that is either 'confirmed', 'pending', or 'canceled':

context Booking

inv ValidStatus:

self.status = 'confirmed' or self.status = 'pending' or self.status = 'canceled'

6. Admins must have a unique email:

context Admin

inv UniqueEmail:

Admin.allInstances()->forAll(a1, a2 | a1 <> a2 implies a1.email <> a2.email)