1. "Offerings are unique. In other words, multiple offerings on the same day and time slot must be offered at a different location."

context Lesson

2. "Any client who is underage must necessarily be accompanied by an adult who acts as their guardian."

context Client

inv: self.age < 18 implies self.guardian <> null and self.guardian.age >= 18

3. "The city associated with an offering must be one the city's that the instructor has indicated in their availabilities."

context Offering

inv: self.instructor.city \rightarrow includes(self.space.location.city)

4. "A client does not have multiple bookings on the same day and time slot."

context Client

inv: self.booking \rightarrow forAll(b1,b2 : Booking | b1.id <> b2.id

implies b1.offering.timeslot <> b2.offering.timeslot)