



Desarrollo de Software Basado en Componentes y Servicios

“OCL ”

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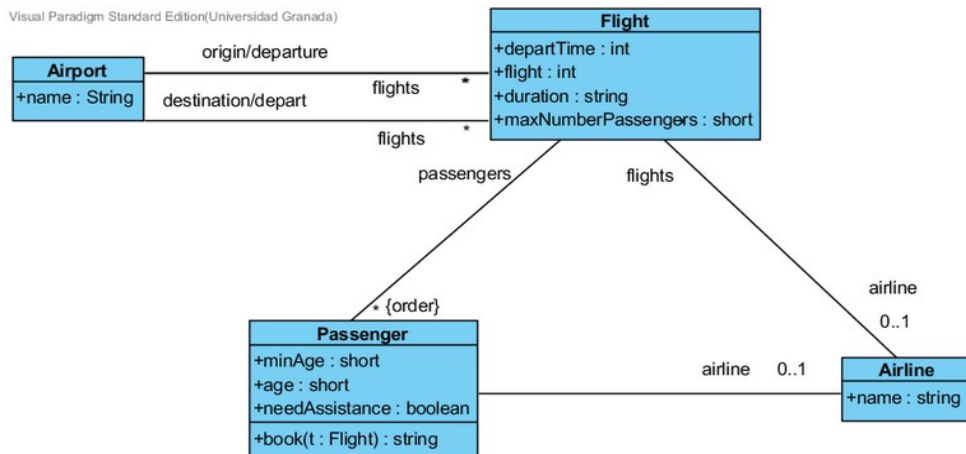
Contenidos

Ejercicio OCL.....3.

Ejercicio OCL

Write the OCL expressions that guarantee the following conditions in the Interface Information Model of the figure above.

Interface specification comprehension.



- 1) All flight objects must have a duration attribute less than 4 hours
- 2) Maximum number of passengers in any flight cannot exceed 1000
- 3) For every passenger, the age attribute must be greater than or equal to the class attribute: 'minAge'
- 4) The duration attribute of all flight-objects must be equal to the difference between the arrival time attribute and the departure time attribute
- 5) The airport from which a flight is leaving must be different from the destination airport
- 6) For every flight, the name of the airport from which it is leaving must be "Amsterdam"

OCL

1. context Flight inv: self.duration < 4
2. context Flight inv: self.maxNumberPassangers <= 100
3. context Passanger inv: age >= Passanger.minAge
4. context Flight inv: self.departTime.difference(self.arrivTime).equals(self.duration)
**En este apartado vamos a suponer que tenemos el atributo arrivTime ya que en el diagrama no aparece y en el apartado 4 se esta dando por supuesto que si tenemos ese atributo*
5. context Flight inv: origin <> destination
6. context Flight inv: origin.name = 'Amsterdam'