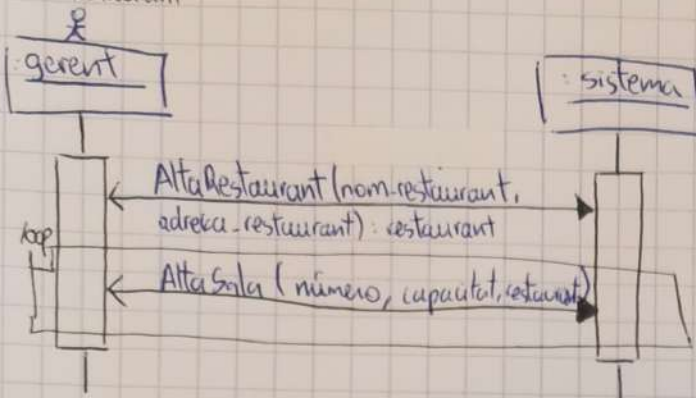


Problema 7

Alta de Restaurant



Context

Sistema: AltaRestaurant (nom-restaurant: String, adreca-restaurant: String): restaurant

Pre:

Post:

Restaurant.allInstances() \rightarrow exists (r | r.nom = nom-restaurant AND r.adreca = adreca-restaurant AND r.ocIsNew()) AND result = r

Context

Sistema: AltaSala (numero: int, capacitat: int, restaurant: Restaurant)

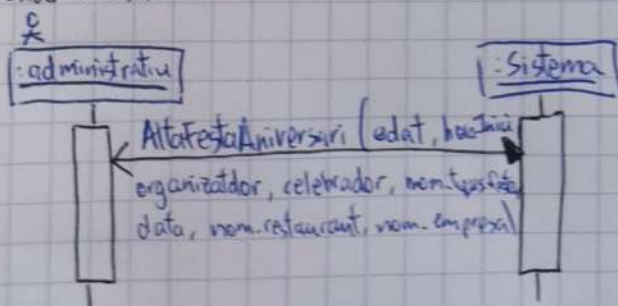
Pre:

Restaurant.allInstances() < 100 AND Restaurant.Sala.allInstances() < 4

Post:

Sala.allInstances() \rightarrow exists (s | s.numero = numero AND s.capacitat = capacitat and s.restaurant = restaurant AND s.ocIsNew())

Alta Festa Aniversari



Context

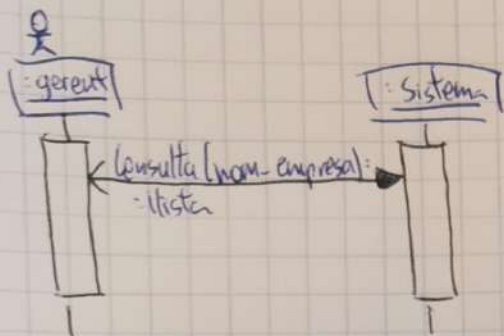
Sistema: AltaFestaAniversari (edat: Natural, horaInici: int, organizador: string, celebrador: string, nomTipusFesta: string, data: Date, nom-restaurant: string, nom-empresa: string)

Pre: Persona.allInstances() \rightarrow exists (p | p.nom = organizador) AND Persona.allInstances() \rightarrow exists (p | p.nom = celebrador) AND TipusFesta.allInstances() \rightarrow exists (t | t.nom = nomTipusFesta) AND Restaurant.allInstances() \rightarrow exists (r | r.nom = nom-restaurant) AND Empresa.allInstances() \rightarrow exists (e | e.nom = nom-empresa) AND Festa.allInstances() \rightarrow IsUnique (f | f.edat = edat AND f.horaInici = horaInici AND f.organizador = organizador AND f.celebrador = celebrador)

Post:

Aniversari.allInstances() \rightarrow exists (a | a.horaInici = horaInici AND a.edat = edat, a.homenatge = celebrador AND a.organitzador = organitzador AND a.TipusDeFesta = tipusFesta AND a.data = data AND a.Restaurant = nom-restaurant AND a.Empresa = nom-empresa)

Consulta Aniversaris Estrany



Context

Sistema: Consulta (nom-empresa: String): Set (tuple type { nom-persona-home: String, nom-organitzadors: Set (string) })

Pre:

Empresa.allInstances() \rightarrow exists (e | e.nom = nom-empresa AND e.TipusDeFesta.allInstances() \rightarrow exists (t | t.Festa.Empresa = nom-empresa)

Body:

result = Aniversari.allInstances() \rightarrow selects (a | a.Assistent.allInstances() > 30 AND not a.participant.allInstances() \rightarrow exists (b | b.nom = a.homenatge.nom))
 \rightarrow collect (a | tuple { nom-persona-home = a.homenatge.nom, nom-organitzadors = a.participant })