Exercici 7 - Carlos Sansón
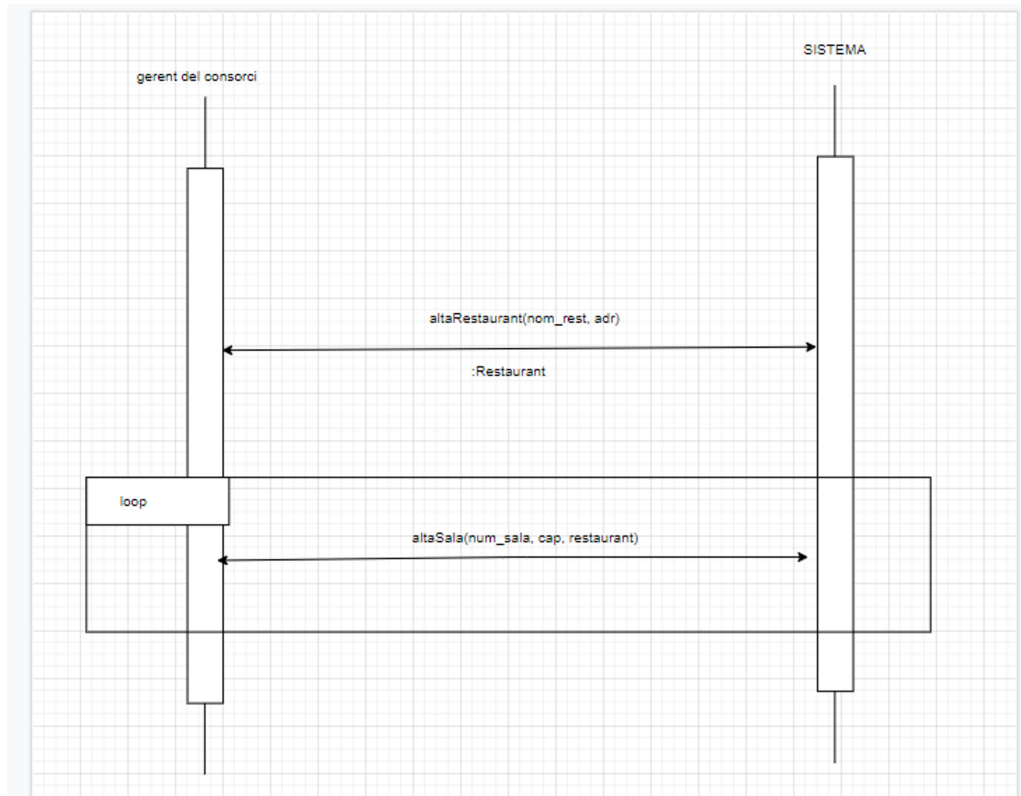
miércoles, 1 de abril de 2020   14:25

context:
Sitema::altaRestaurant(nom_rest: String, adr: String): Restaurant

pre:
Restaurant.allInstances()->size < 100

post:
//Se habrá creado un objeto Restaurante
Restaurant.allInstances()->exists(r |
   r.oclIsNew()
   and r.nom = nom_rest
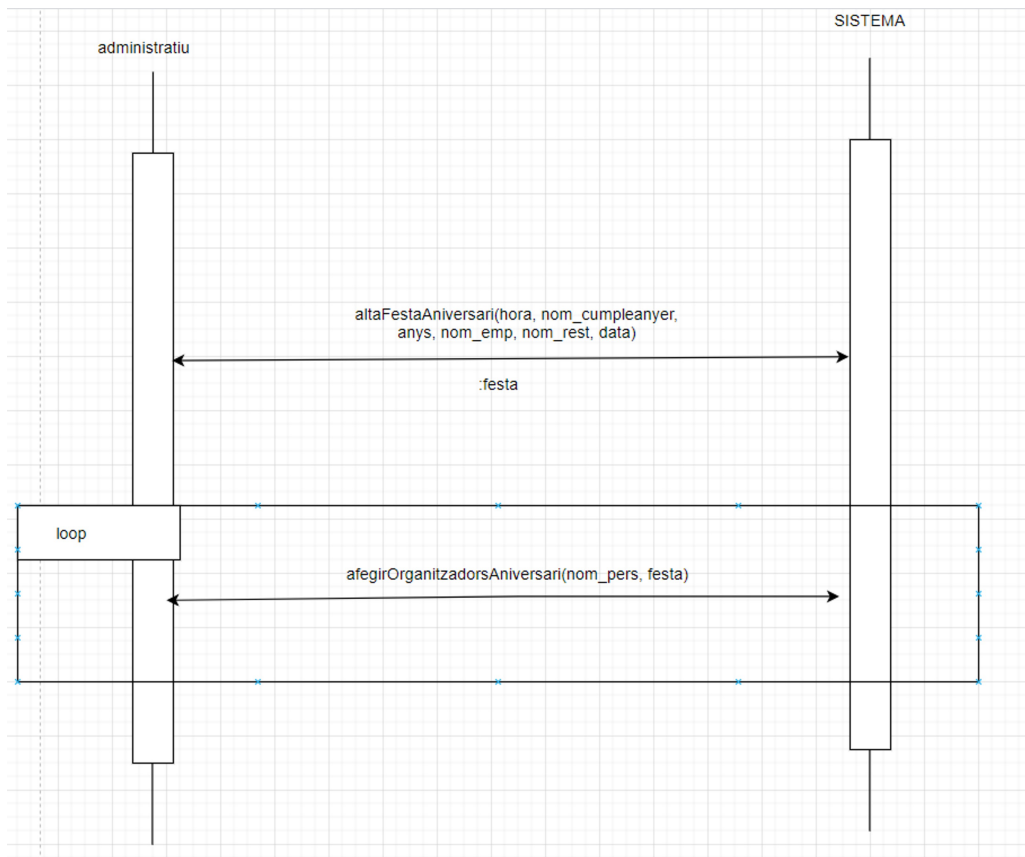   and r.adreça = adr
)

context:
Sistema::altaSala(num_sala: Int, cap: Int, restaurant: Restaurant)

pre:
not Restaurant.allInstances()->exists(r | r.nom = restaurant.nom and r.sala->size > 5)

post:
Sala.allInstances()->exists(s |
   s.oclIsNew()
   and s.numero = num_sala
   and s.capacitat = cap
   and s.Restaurant = restaurant
)

context:
Sistema::altaFestaAniversari(
   hora: Int,
   nom_cumpleanyer: String
   anys: Int
   nom_emp: String
   nom_rest: String
   data: Data
)

pre:
Persona.allInstances()->exists(p | p.nom = nom_cumpleanyer)
and Empresa.allInstances()->exists(e | e.nom = nom_emp)
and Restaurant.allInstances()->exists(r | r.nom = nom_rest)

post:
Aniversari.allInstances()->exists(a |
   a.oclIsNew()
   and a.edat = anys
   and a.horaInici = hora
   and a.homenatjada.nom = nom_cumpleanyer
   and a.Empresa.nom = nom_emp
   and a.Data = data
   and a.Restaurant.nom = nom_rest
   and a.TipusDeFesta.nom = "Aniversari"
)

context:
afegirOrganitzadorsAniversaris(nom_pers: String, festa: Festa)

pre:
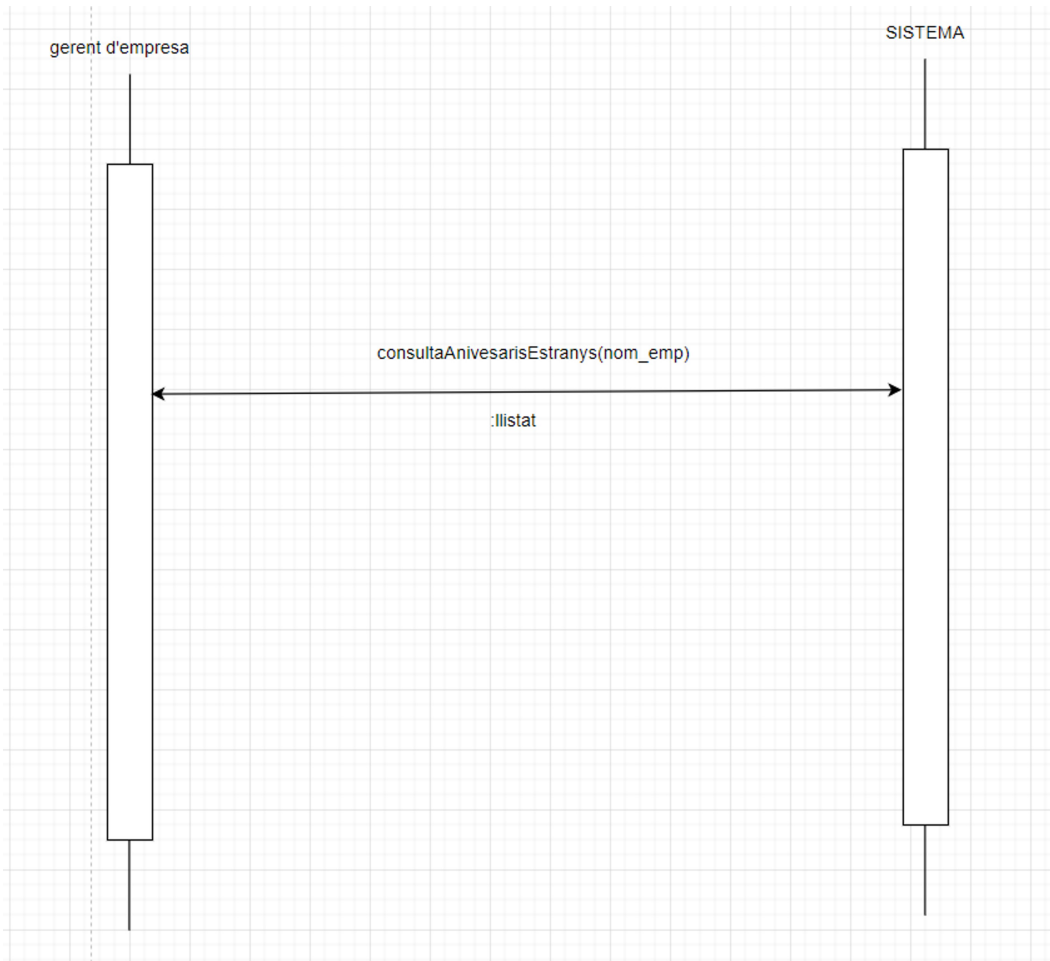Persona.allInstances()->exists(p | p.nom = nom_pers)

post:
Assistent.allInstances()->exist(as |
   as.oclIsNew()
   and as.pagat = true
   and as.participacions = festa
   and as.participant.nom = nom_pers
)
and festa.organitzador.allInstances()->include(p | p.nom = nom_pers)

context:
Sistema::consultaAniversarisEstranys(nom_emp: String)
  : llistat: Set (
    tupletype (
      nom_homen: String,
      nom_org: Set(String)
)
)

Pre:
Empresa.allInstances()->exists(e | e.nom = nom_emp)
and not TipusDeFesta.allInstances->exists(tf |
  not Empresa.allInstances()->exists(e | e.nom = nom_emp and e.TipusDeFesta = tf.nom)
)

body:
Let aniversaris_estranys: Set(Aniversari) =
  Aniversari.allInstances()->select(a |
    a.participant->excludes(a.homenatjada)
)
In
Result = aniversaris_estranys->collect(aniv | Tuple {
  nom_homen = aniv.homenatjada.nom,
  nom_org = aniv.participant.nom
})