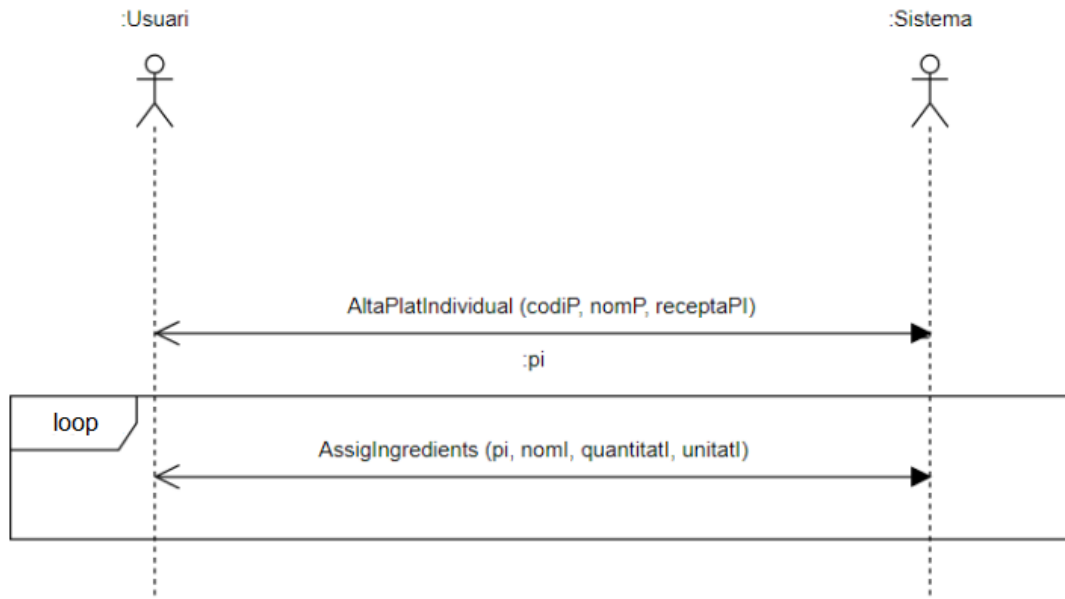


PROBLEMA 1 CONTROL 2 :

->AltaPlatIndividual:



context: Sistema::AltaPlatIndividual (codiP : String, nomP : String, receptaPI : String):
PlatIndividual

pre:

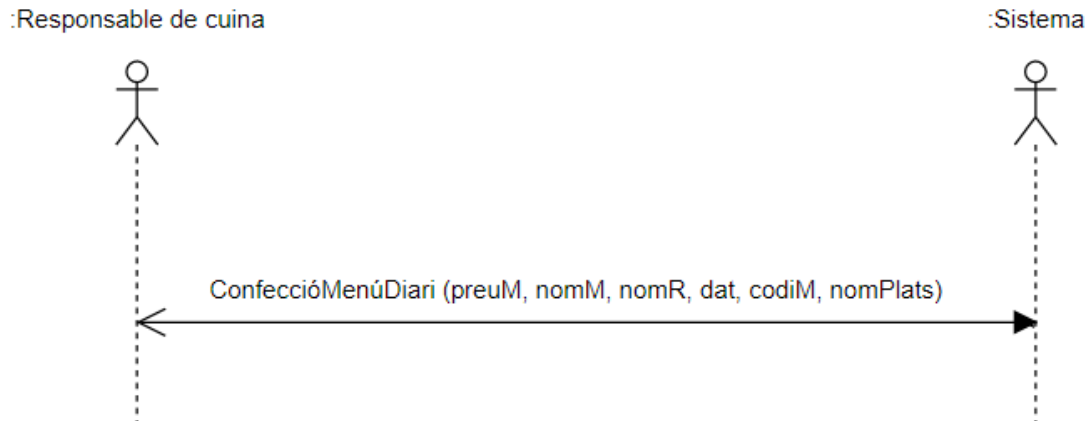
post: PlatIndividual.allInstances()->exists(pi | pi.ocllsNew() and pi.codi = codiP and
pi.nom = nomP and pi.recepta = receptaPI and pi.nombreMenús = 0 and result = pi)

context: Sistema::AssigIngredients (pi : PlatIndividual, noml : String, quantitatl : Decimal,
unitatl : String)

pre: Ingredient.allInstances()->exists(i | i.nom = noml)

post: Mesura.allInstances()->exists(m | m.ocllsNew() and m.quantitat = quantitatl and
m.unitatDeMesura = unitatl and m.ingredient.nom = noml and m.platIndividual = pi)
and pi.ingredient.nom->includes(noml)

->ConfeccióMenúDiari:

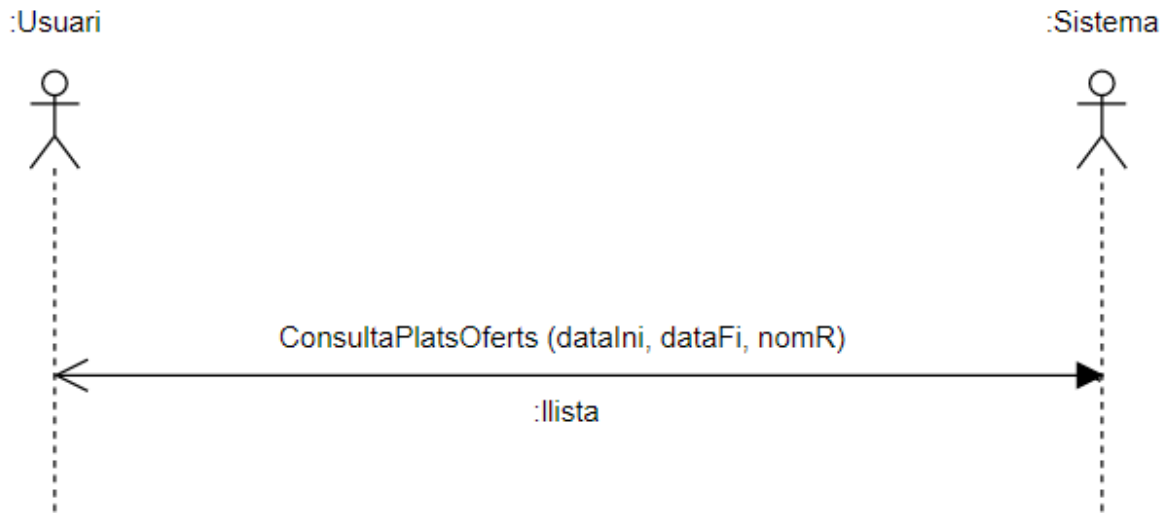


context: Sistema::ConfeccióMenúDiari (preuM : Decimal, nomM : String, nomR : String,
dat : Date, codiM : String, nomPlats : Set(String))

pre: Restaurant.allInstances()->exists(r | r.nom = nomR and r.platIndividual->size() <= 100)

post: if (not (Menú.allInstances() @pre ->exists(m | m.nom = nomM)))
then Menú.allInstances()->exists(m | m.ocllsNew() and m.nom = nomM and
m.codi = codiM and m.platIndividual.nom = nomPlats and
m.platIndividual->exists(pi | pi.nombreMenús = pi.nombreMenús + 1))
endif
and MenúDiariOfert.allInstances()->exists(mdo | mdo.ocllsNew() and
mdo.preu = preuM and mdo.menú.nom = nomM and mdo.restaurant.nom = nomR and
mdo.data.data = dat)

->ConsultaPlatsOferts:



context: Sistema::ConsultaPlatsOferts (dataIni : Date, dataFi : Date, nomR : String)
 :Set(TupleType(codiPI : String, nomI : Set(String)))

pre: MenúDiariOfert.allInstances()->select(mdo | mdo.restaurant.nom = nomR and
 mdo.preu < 10)->size() > 9

body: let platsI : Set(PlatIndividual) =
 PlatIndividual.allInstances()->select(pi | pi.menú.menúDiariOfert.restaurant.nom =
 nomR and pi.menú.menúDiariOfert.data.data >= dataIni and
 pi.menú.menúDiariOfert.data.data <= dataFi)
 in
 result = platsI->collect(pi | Tuple{codiPI = pi.codi, nomI = pi.ingredient.nom})