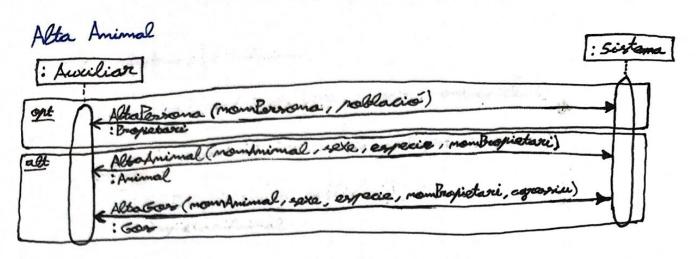
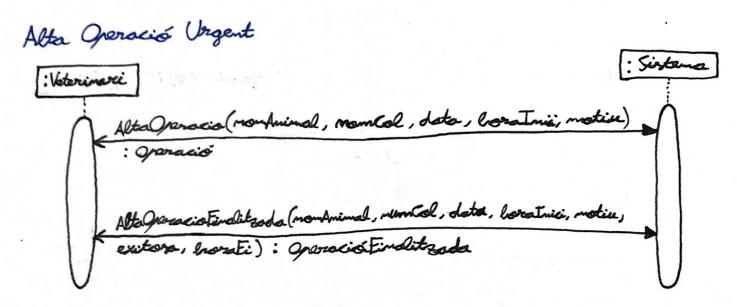
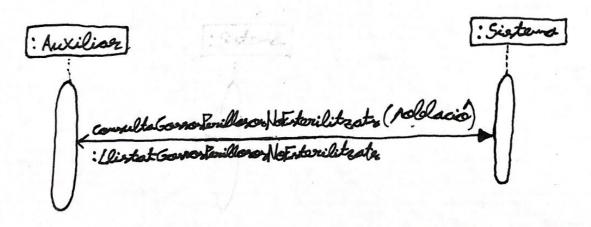
## 6è problema d'IES-QT2122





Consulta Gossos Perillosos no Exterilitzates



```
--Alta Animal
    --Persona
context Sistema::altaPersona(nom: String, poblacio: String):Persona
post: Persona.allInstances() -> Exists(p | p.nom = nom and
                                           p.poblacio = poblacio and
                                           p.oclIsNew() and result = p)
    --Animal
context Sistema::altaAnimal(nomAnimal: String, sexe: TSexe, especie:
String, nomPropietari: String):Animal
pre: Persona.allInstances() -> Exists(p | p = nomPropietari)
post: Animal.allInstances() -> Exists(a | a.nomAnimal and
                                          a.sexe = sexe and
                                          a.especie = especie and
                                          a.propietari = nomPropietari and
                                          a.oclIsNew() and
                                          result = a)
    --Gos
context Sistema::altaGos(nomAnimal: String, sexe: TSexe, especie: String,
nomPropietari: String, agressiu: Boolean):Gos
pre: Persona.allInstances() -> Exists(p | p = nomPropietari) and
     Especie.allInstances() -> Exists(e | e.nom = especie and
                                          e.nom = "gos")
post: Gos.allInstances() -> Exists(g | g.nomGos = nomAnimal and
                                       q.sexe = sexe and
                                        g.especie = especie and
                                       g.nomPropietari = nomPropietari and
                                       g.agressiu = g.agressiu and
                                       g.oclIsNew() and result = g)
--Alta Operació Urgent
    --Operació Urgent
context Sistema::altaOperacioUrgent(nomAnimal: String, numCol: Integer,
data: Date, horaInici: String, motiu: String):Operacio
pre: Veterinari.allInstances() -> Exists(v | v.numCol = numCol and
     v.especie.animal.nomAnimal -> includes(nomAnimal))
post: Operacio.allInstances() -> Exists(o | o.horaInici = horaInici and
                                            o.motiu = motiu and
                                            o.oclIsNew() and result = o)
    --Operació Urgent Finalitzada
context Sistema::altaOperacioUrgentFinalitzada(nomAnimal: String, numCol:
Integer, data: Date, horaInici: String, motiu: String, exitosa: Boolean,
horaFi: String):OperacioFinalitzada
pre: Operacio.allInstances() -> Exists (o | o.nomAnimal = nomAnimal,
                                            o.numCol = numCol and
                                            o.data = data)
post: OperacioFinalitzada.allInstances() ->
      Exists(of | of.nomAnimal = nomAnimal
                 of.numCol = numCol and
                  of.data = data and
                  of.horaInici = horaInici and
                  of.motiu = motiu and
                  of.oclIsNew() and
                  result = of)
```