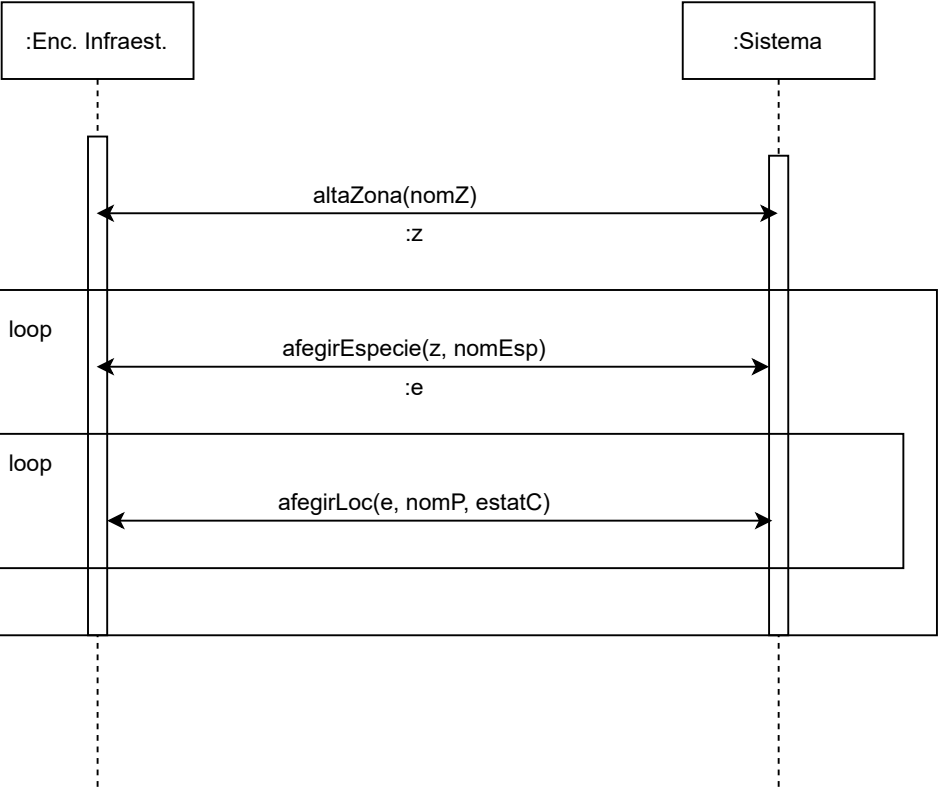


Alta Exemplar

Context: sistema::altaExemplar(nomEx: String, sexe: String, minimKg: Integer, maximKg: Integer, fertil: bool, nomEsp: String)

Pre: Especie.allInstances()->exists(e | e.nom = nomEsp
and e.zona -> exists(z | z.size() >=2)

Post: Exemplar.allInstances()->exists(ex | ex.ocllsNew()
and ex.nom = nomEx
and ex.sexe = sexe
and ex.especie.nom = nomEsp
and If ex.especie.nom = "Lleó" then
ex.ocllsTypeOf(ExemplarLleó)
and ex.oclAsTypeOf(ExemplarLleó).minimKg = minimKg
and ex.oclAsTypeOf(ExemplarLleó).maximKg = maximKg
and if ex.sexe:TipusSexe::Femení then
ex.ocllsTypeOf(ExemplarLleoFamella)
and oclAsTypeOf(ExemplarLleóFamella).fertil = fertil
Endif
Endif)



Alta Zona

Context: sistema::altaZona(nomZ: String): Zona

Post: Zona.allInstances()->exists(z | z.ocllsNew()
and z.nom = nomZ
and result = z)

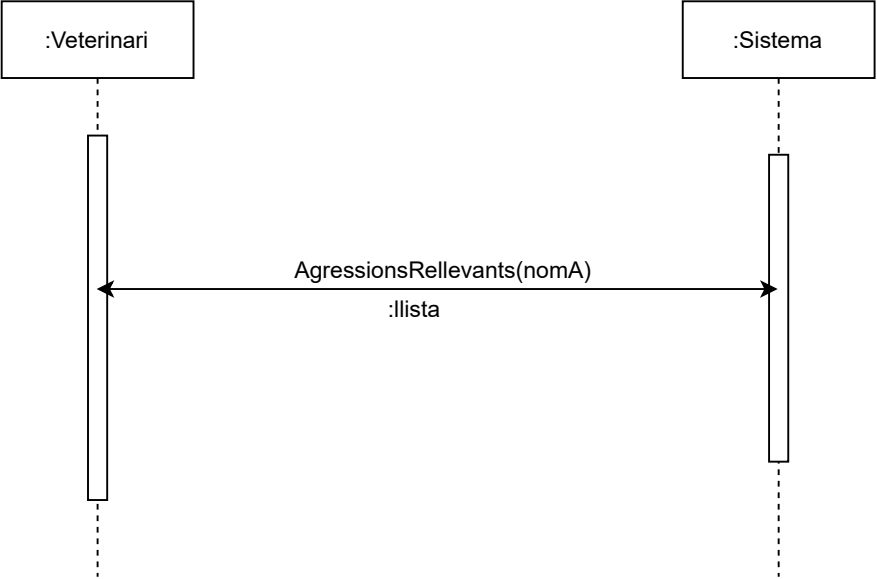
Context: sistema::afegirEspecie(z: Zona, nomEsp: String):Especie

Post: if not Especie.allInstances()@pre -> exists(esp | esp.nom = nomEsp) then
Especie.allInstances() -> exists(esp | esp.ocllsNew()
and esp.nom = nomEsp)
Endif
and z.especie.nom -> includes(nomEsp)
and Especie.allInstances()->select(esp | esp.nom = nomEsp
and result = esp)

Context: sistema::afegirLoc(e: Especie, nomP: String, estatC: TipusEstat)

Pre: Pais.allInstances()->exists(p | p.nom = nomP)

Post: Localització.allInstances() -> exists(l | l.ocllsNew()
and l.especie = e
and l.pais.nom = nomP
and l.estatConservacio = estatC)



ConsultaAgressionsRellevants

Context: sistema::AgressionsRellevants(nomA: String): Set(TupleType(Data: Date, nomFerits: Set(String)))

Pre: Exemplar.allInstances()->exists(ex | ex.nom = nomA and
and not(ex.especie.localitzacio.estatConservació->includes("Sense Perill")))

Body: let agressions: set(Agressio) =
Agressio.allInstances()->select(a | a.agressor.nom = nomA
and a.agredit.especie.localització.estatConservacio->includes("Sense Perill")
in agressions -> collect(res | res Tuple{Data = res.data.data, nomFerits = res.ferit.nom})