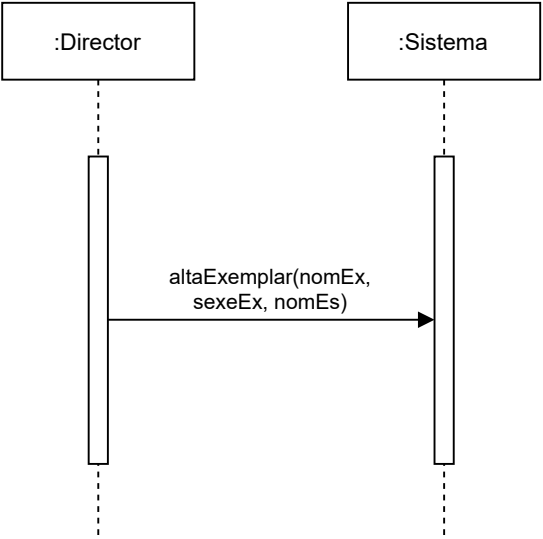


AltaExemplar



context: Sistema::altaExemplar(nomEx: String, sexeEx: TipusSexe, nomEs: String, min: Integer, max: Integer, fertil: Bool)

pre: Especie.allInstances()->exists(e | e.nom = nomEs and e.zona->exists(z | z.especie->size()->=2))

post: Exemplar.allInstances()->exists(ex | ex.ocllsNew() and ex.nom = nomEx and ex.sexe = sexeEx and ex.especie.nom = nomEs and result = ex and

if ex.especie.nom = "Lleó" then

ex.ocllsTypeOf(ExemplarLleó) and ex.oclAsType(ExemplarLleó).minimKg = min and ex.oclAsType(ExemplarLleó).maximKg = max and

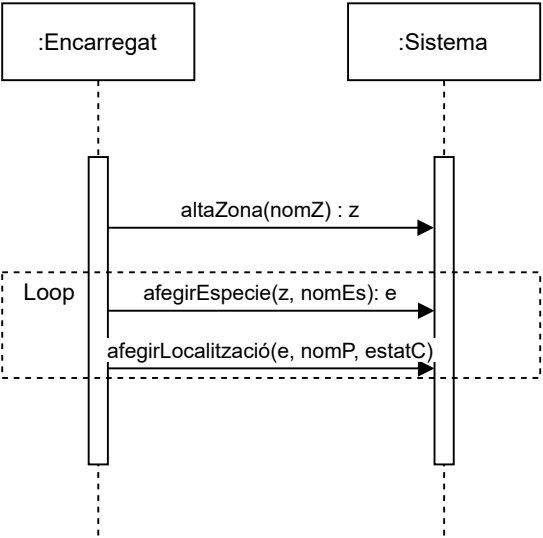
if ex.sexe = TipusSexe.Femení then

ex.ocllsTypeOf(ExemplarLleóFemella) and ex.oclAsType(ExemplarLleóFemella).fertil = fertil

endif

endif)

AltaZona



context: Sistema::altaZona(nomZ: String) : Zona

pre: --

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

context: Sistema::afegirEspecie(z: Zona, nomEs: String) : Especie

pre: --

post: if not Especie.allInstances()->exists(e | e.nom = nomEs) then

Especie.allInstances()->exists(e | e.ocllsNew() and e.nom = nomEs and result = e)

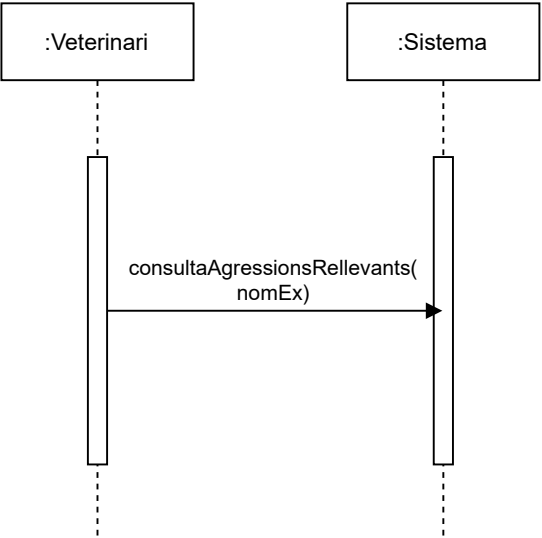
endif and zo.especie.nom->includes(nomEs)

context: Sistema::afegirLocalització(e: Especie, nomP: String, estatC:TipusEstat)

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

post: Localitzacio.allInstances()->exists(lo | lo.ocllsNew() and lo.estatConservacio = estatC and lo.pais.nom = nomP and lo.especie = e)

ConsultaAgressionsRellevants



context: Sistema::consultaAgressionsRellevants(nomEx: String) :
agressions: Set(TupleType(data: Data, nomExFerit: String))

pre: Exemplar.allInstances()->exists(ex | ex.nom = nomEx and not Localitzacio.allInstances()->exists(lo | ex.especie.pais.nom->includes(lo.pais.nom) and lo.especie.nom = ex.especie.nom and l.estatConservacio = TipusEstat.EnPerillGreu))

body: let agressions: Set(Agressio) = Agressio.allInstances()->select(a | a.agressor.nom = nomEx and a.agredit.especie.localitzacio->exists(lo | lo.estatConservacio = "EnPerillGreu"))

in result = agressions->collect(a | Tuple{ data = a.data.data; ferits = a.ferit.nom })