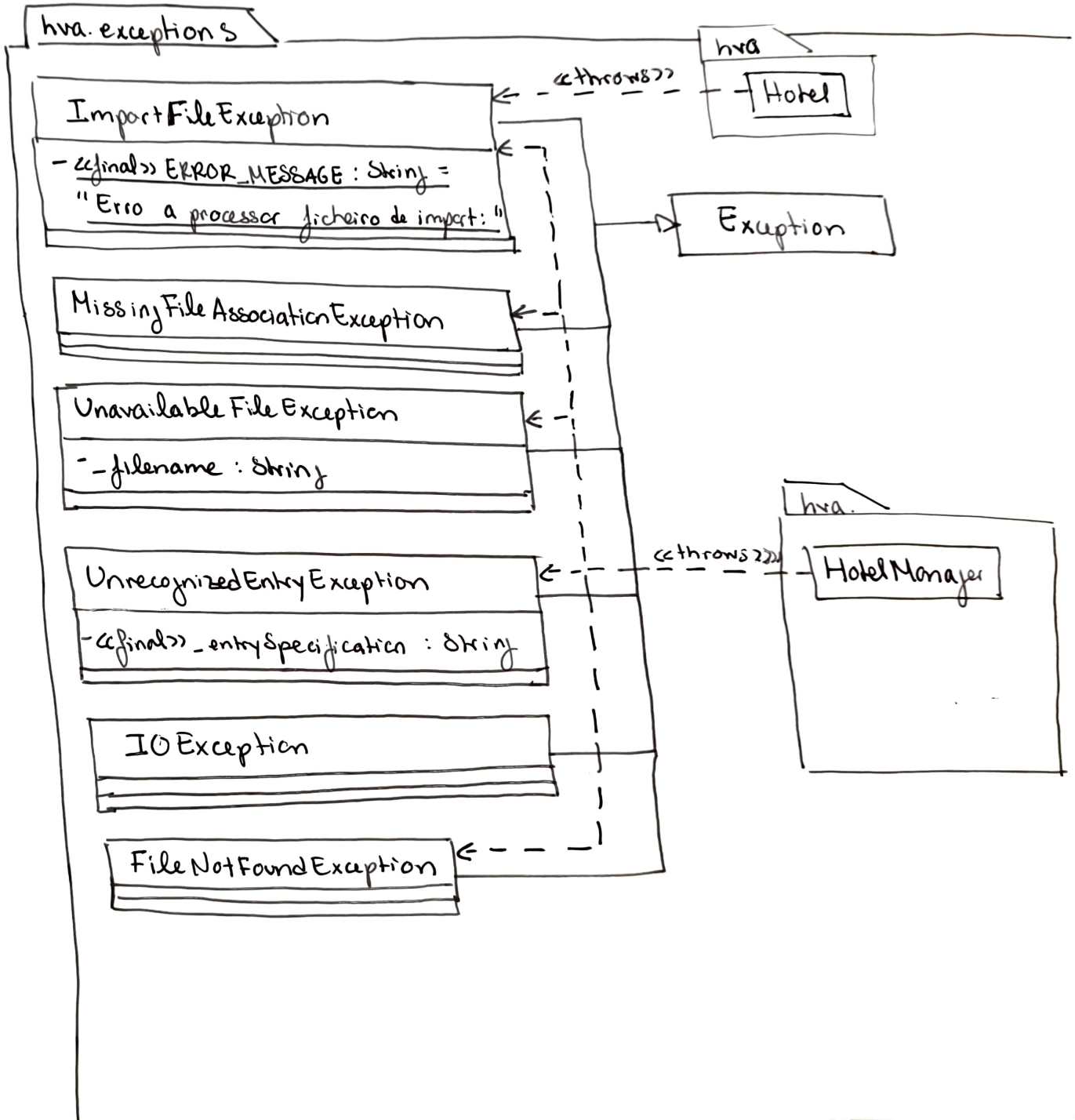
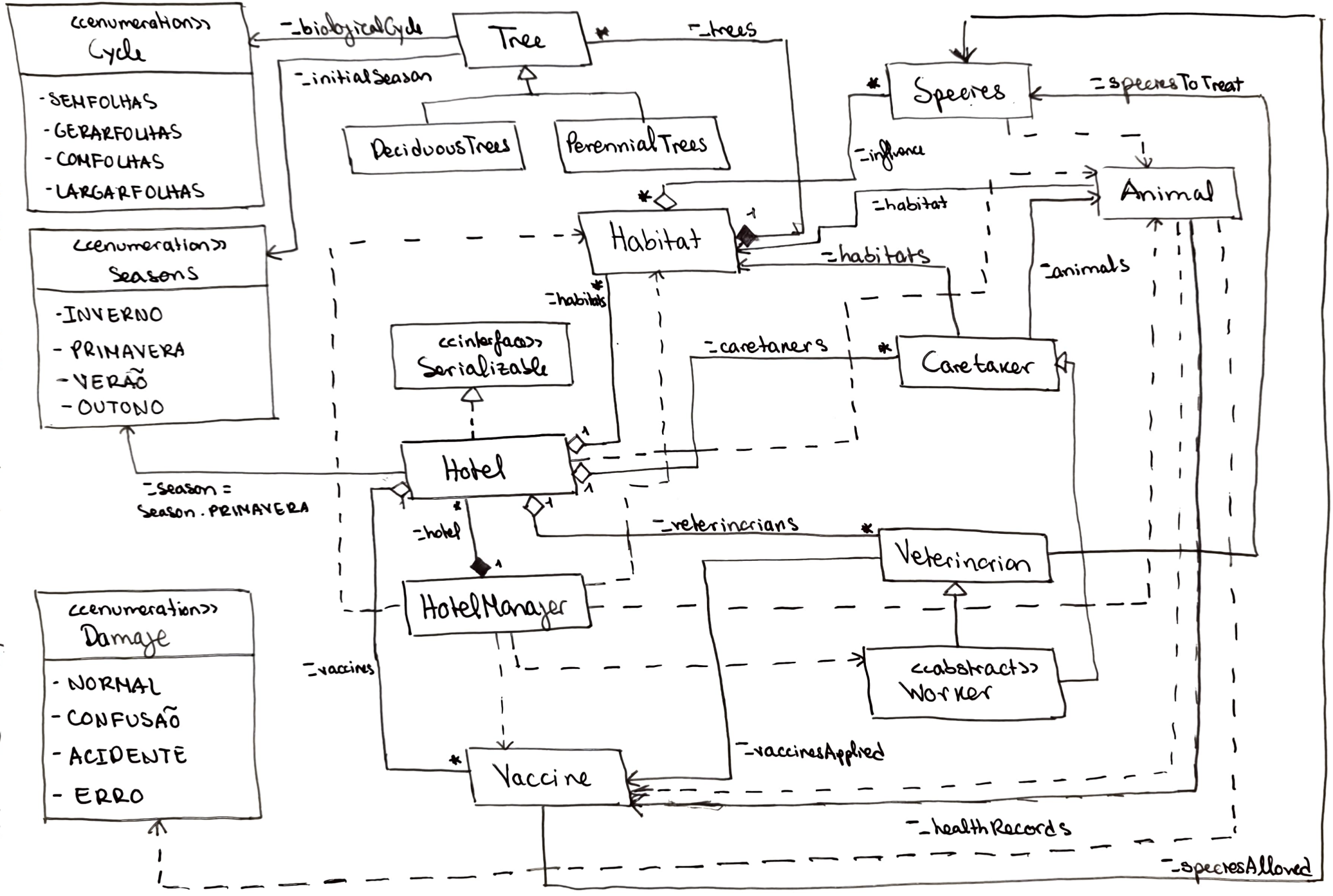
→Serial numbers for serialization have been omitted

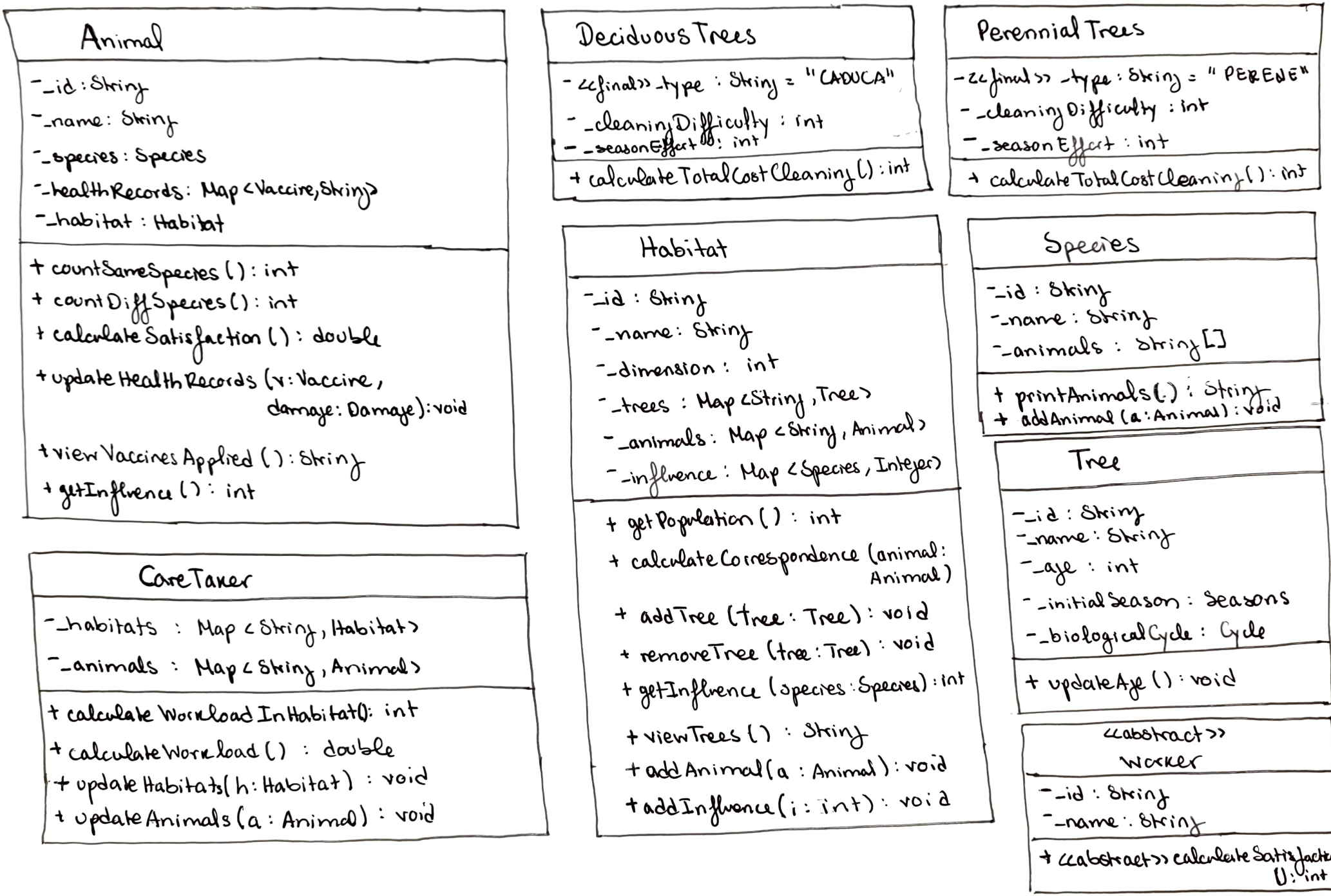
→All the methods were defined separately in order to better understand the connections established between classes.

Declaro per minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo do projeto.




«enumeration»
Cycle
-SEMFOLHAS
-GERARFOLHAS
-COMFOLHAS
-LARGARFOLHAS
-biologicalCycle
Tree
*
-trees
-initialSeason
DeciduousTrees
PerennialTrees
Species
-speciesToTreat
-influence
Animal
Habitat
-habitat
-habitats
-animals
«enumeration»
Seasons
-INVERNO
-PRIMAVERA
-VERÃO
-OUTONO
«interface»
Serializable
-caretakers
Caretaker
Hotel
-season =
Season.PRIMAVERA
-hotel
-veterinarians
Veterinarian
HotelManager
«enumeration»
Damage
-NORMAL
-CONFUSÃO
-ACIDENTE
-ERRO
-vaccines
«abstract»
Worker
-vaccinesApplied
Vaccine
-healthRecords
-speciesAllowed


Vaccine
-_id : String
-_name : String
-_speciesAllowed : Map < String, Species >
-_rejistryUsage : Map <Animal , Veterinarian>
+ addSpecies (s : Species) : void
+ updateRejistry (a : Animal , v : Veterinarian): void
Veterinarian
-_speciesToTreat : Map <String, Species>
-_vaccinesApplied : Vaccine[]
+ addSpecies (s : Species) : void
+ calculate WorkloadEach Species ( ) : double
+ applyVaccine (v : Vaccine, a : Animal) : void
+ calculateDamage (v : Vaccine, a : Animal) : void
+ viewVaccinations ( ) : String
Hotel
-_veterinarians : Map < String , Veterinarian >
-_caretakers : Map < String , CareTaker >
-_habitats : Map < String, Habitat >
-_vaccines : Map < String, Vaccine >
-_season : Seasons = Seasons. PRIMAVERA
+ addWorker (worker : Worker) : void
+ addAnimal (animal : Animal) : void
+ addHabitat (habitat : Habitat) : void
+ addVaccine (v : Vaccine) : void
+ transferAnimalHabitats (animalId : String , h1 : String , h2 : String) : void
+ applyVaccine (v : Vaccine , vet : Veterinarian , a : Animal) : void
+ calculate SatisfactionAnimal ( ) : int
+ calculate SatisfactionVeterinarian ( ) : double
+ calculate Satisfaction Caretaker ( ) : double
+ treeCleaningEffort (treeId : String) : double
+ importFile (filename : String) : void
HotelManager
-_hotel : Hotel = new Hotel ( )
+ save ( ) : void
+ saveAs (filename : String) : void
+ load (filename : String) : void
+ importFile (filename : String) : void
+ addAnimalToHotel (animal : Animal) : void
+ addWorkerToHotel (worker : Worker) : void
+ addHabitatToHotel (habitat : Habitat) : void
+ addVaccineToHotel (vaccine : Vaccine) : void
+ addResponsabilityVet (workerId : String, speciesId : String) : void
+ addResponsabilityCareT (workerId : String, habitatId : String) : void
+ removeResponsabilityVet (workerId : String , speciesId : String) : void
+ removeResponsabilityCareT (workerId : String , habitatId : String) : void
+ calculateSatisfactionHotel ( ) : int


Animal
-_id : String
-_name : String
-_species : Species
-_healthRecords : Map<Vaccine,String>
-_habitat : Habitat
+ countSameSpecies () : int
+ countDiffSpecies () : int
+ calculateSatisfaction () : double
+ updateHealthRecords (v:Vaccine, damage: Damage):void
+ viewVaccinesApplied () : String
+ getInflvence () : int
CareTaker
-_habitats : Map<String, Habitat>
-_animals : Map<String, Animal>
+ calculateWorkloadInHabitat(): int
+ calculateWorkload () : double
+ updateHabitats(h:Habitat) : void
+ updateAnimals (a : Animal) : void
DeciduousTrees
- <<final>> _type : String = "CADUCA"
- _cleaningDifficulty : int
- _seasonEffort : int
+ calculateTotalCostCleaning() : int
Habitat
-_id : String
-_name : String
-_dimension : int
-_trees : Map<String, Tree>
-_animals : Map<String, Animal>
-_influence : Map<Species, Integer>
+ getPopulation () : int
+ calculateCorrespondence (animal: Animal)
+ addTree (tree : Tree) : void
+ removeTree (tree : Tree) : void
+ getInflvence (species : Species) : int
+ viewTrees () : String
+ addAnimal(a : Animal) : void
+ addInflvence(i : int) : void
PerennialTrees
-<<final>> _type : String = "PERENE"
-_cleaningDifficulty : int
-_seasonEffort : int
+ calculateTotalCostCleaning() : int
Species
-_id : String
-_name : String
-_animals : String[]
+ printAnimals() : String
+ addAnimal (a:Animal) : void
Tree
-_id : String
-_name : String
-_age : int
-_initialSeason : Seasons
-_biologicalCycle : Cycle
+ updateAge () : void
<<abstract>>
Worker
-_id : String
-_name : String
+ <<abstract>> calculateSatisfaction() : int