po-hva-core

Animal

- _animalId : String
- _animalName : String
- _animalSpecies : Species
- _animalHealthHistory : List <String>
- _animalVaccinationHistory : List <VaccinationEvent>
- _animalHabitat : Habitat

+ calculateAnimalSatisfaction (habitat : Habitat) : int

Habitat

- _habitatId : String
- _habitatName : String
- _habitatArea : int
- _habitatPopulation : int
- _habitatNumberOfHandlers : int
- _speciesAdequacy : Map < String, int >
- _habitatTrees : List <Tree>
- _habitatAnimals : ~~List~~ Map < String, Animal >

+ countEquals (a : Animal) : int

+ countDifferent (a : Animal) : int

Species

- _SpeciesId : String
- _SpeciesName : String
- _SpeciesAnimals : ~~Map~~ Set <String ~~Animal~~ >
- _SpeciesNumberOfVets : int
- _SpeciesNumberOfAnimals : int

« abstract »
Employee

- employeeId : String
- employeeName : String
- employeeSatisfactionCalculator : SatisfactionCalculator

Vet

- vetVaccinableSpecies : Map < String, Species >
- vetVaccinationHistory : List < VaccinationEvent >

Handler

- handlerResponsibleHabitats : Map < String, Habitat >

<< interface >>
SatisfactionCalculator

calculateSatisfaction (employee : Employee) : int

VetStrategy

HandlerStrategy

<< interface >>
Season

calculateCleaningEffort (tree : Tree) : int
getBiologicalCycle (tree : Tree) : String

Winter

Summer

Fall

Spring

Vaccine

- _VaccineId : String
- _vaccineName : String
- _numberOfApplications : int
- _vaccinableSpecies: Set < String>

+ incrementNumberOfApplications (): void

VaccinationEvent

- _vaccine: Vaccine
- _vet : Vet
- _species : Species
- _effect : String

+ calculateEffect ( ) : void

<<abstract>>

Tree

- _treeId : String
- _treeName : String
- _treeAge: int
- _treeNumberOfStationsLived : int
- _treeBaseCloningDifficulty : int
- _treeCurrentSeason : Season

+ <<abstract>> getType (): String

EvergreenTree

DeciduousTree

HotelManager

- _hotel : Hotel
- _seasons: Season[]

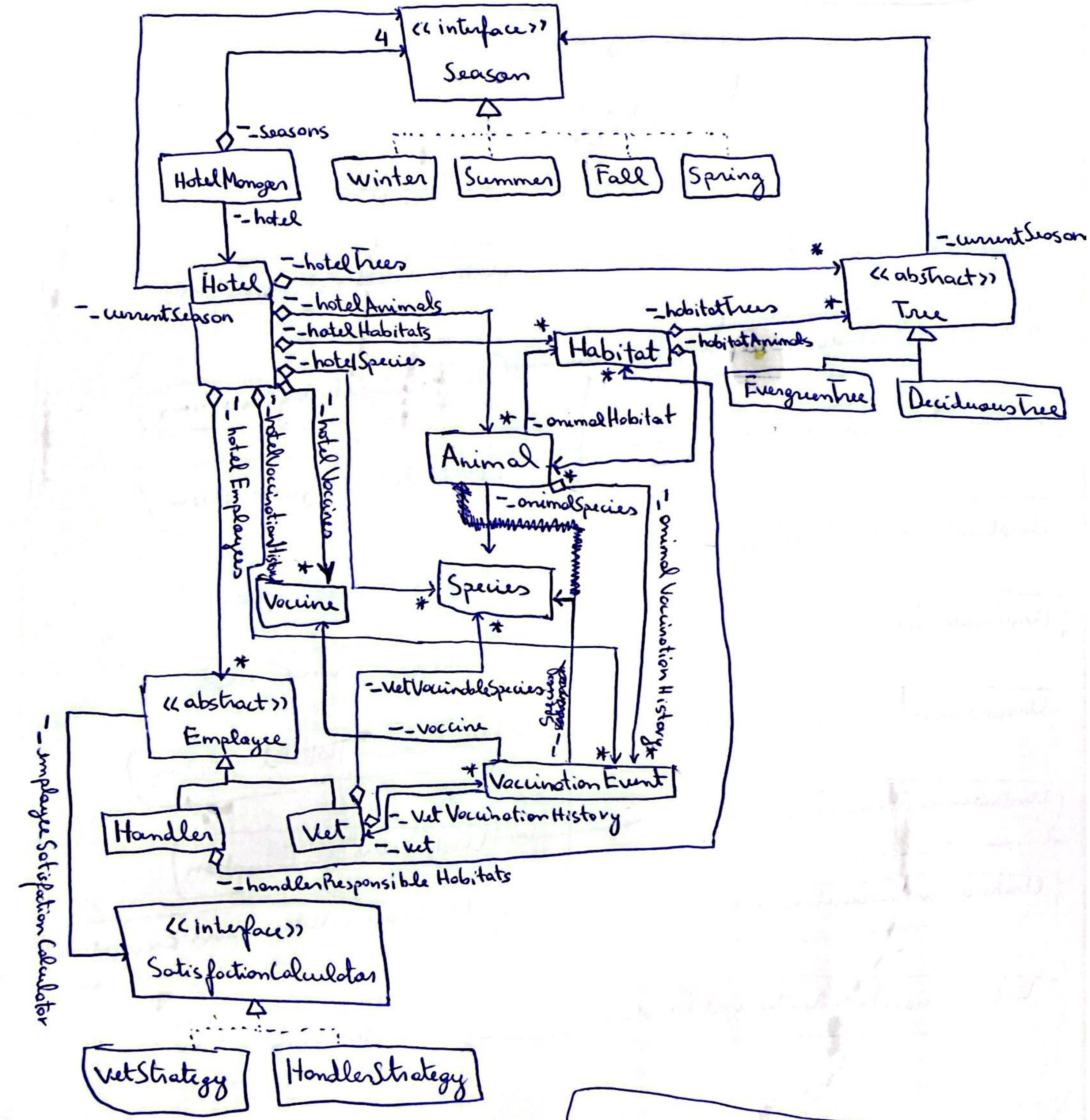
+ save(): void
+ saveAs(filename: String): void
+ load (filename: String): void
+ create(): void
+ advanceSeason () : void
+ showGlobalSatisfaction(): int

Hotel

- _hotelAnimals: Map <String, Animal>
- _ ~~vacci~~ hotelVaccines: Map < ~~Ve~~ String, Vaccine>
- _hotelHabitats : Map <String, Habitat>
- _hotelSpecies: Map< String, Species>
- _hotelEmployees : Map <String, Employee>
- _hotelTrees: Map <String, Tree>
- _hotelVaccinationHistory : List< VaccinationEvent>

+ showAllAnimals (): String
+ ~~add~~ regist Animal (id: String, name: String, species: String, habitat : String) : void
+ transferAnimal(animal : String, habitat String) : void
+ calculateAnimalSatisfaction(animal : String) : int
+ showAllEmployees (): String
+ registEmployee (id: String, name: String, type: String) : void
+ newResponsability (employee : String, responsability : String) : void
+ removeResponsability (employee: String, responsability : String) : void
+ calculateEmployeeSatisfaction(employee: String) : int
+ showAllHabitats (): String
+ registHabitat (id : String, name: String, area: int) : void
+ changeArea (habitat: String, area: int) : void
+ changeSpeciesAdequacy (habitat: String, species: String, influence: String): void
+ plantTree(habitat : String, tree : String, age: treeAge, cleaningDifficulty: int, type: String) : vo
+ showHabitatTrees (habitat: String) : String
+ registVaccine (id: String, name: String, vaccinableSpecies : ~~List<String>~~ String) : void
+ vaccinateAnimal (vaccine: String, vet: String, animal : String): void
+ showAllVaccinationEvents () : String
+ showAnimalsINHabitat (habitat: String) : String
+ showAnimalVaccinationHistory (animal: String) : String
+ showVetMedicalActs (vet : String) : String
+ showBadVaccinations () : String

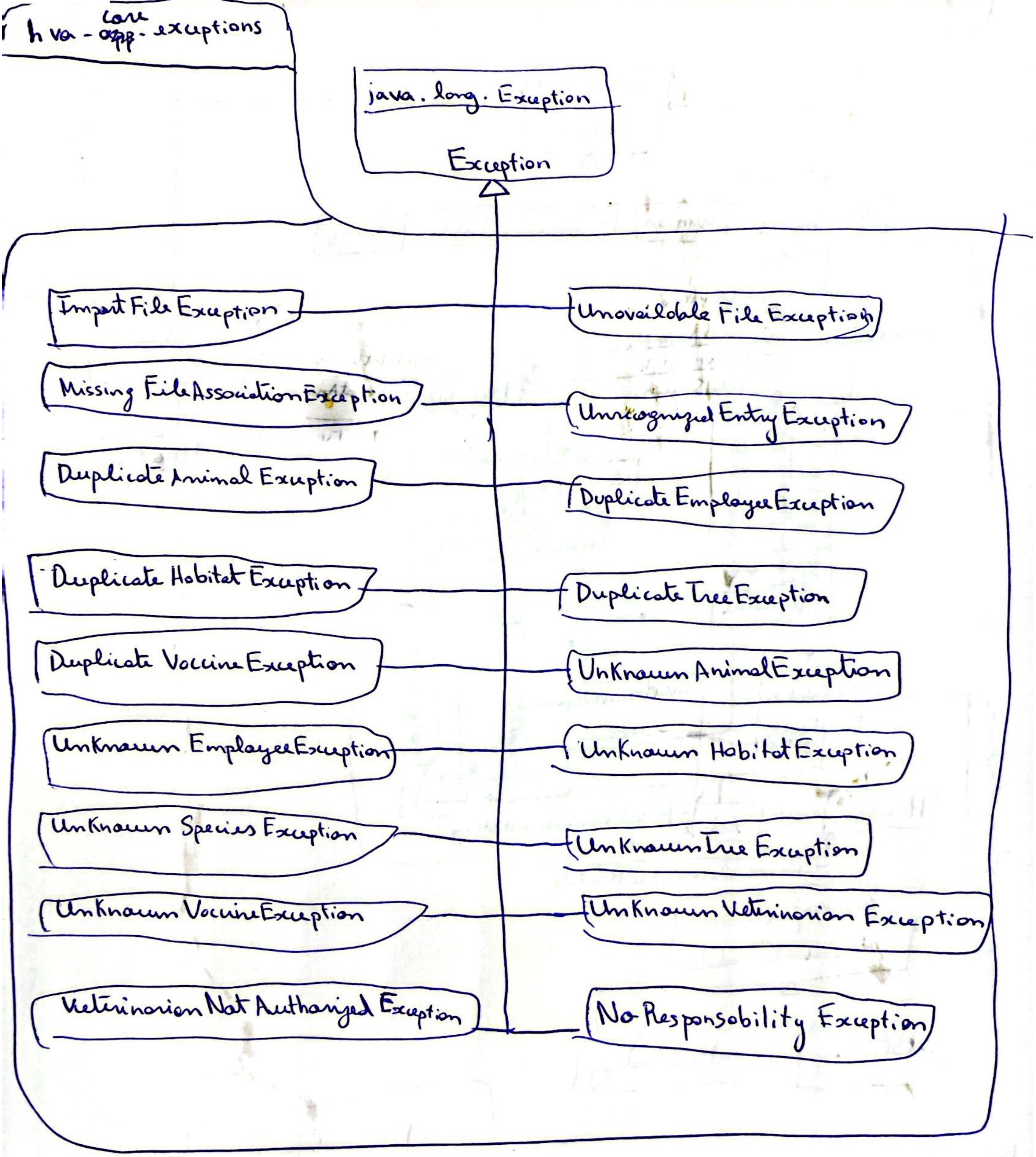
UML



Nota: Considera que todas as classes implementam <<interface>> Serializable
Esta Nota substitui as inúmeras setas de implementação.

João Silva 106883 - Declara por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto.

Pedro Rosa 106426 - Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projeto


hva - ~~app~~ core - exceptions
java.lang.Exception
Exception
Import File Exception
Unavailable File Exception
Missing FileAssociationException
Unrecognized Entry Exception
Duplicate Animal Exception
Duplicate Employee Exception
Duplicate Habitat Exception
Duplicate Tree Exception
Duplicate Vaccine Exception
Unknown AnimalException
Unknown EmployeeException
Unknown Habitat Exception
Unknown Species Exception
UnknownTree Exception
Unknown VaccineException
Unknown Veterinarian Exception
Veterinarian Not Authorized Exception
No Responsobility Exception