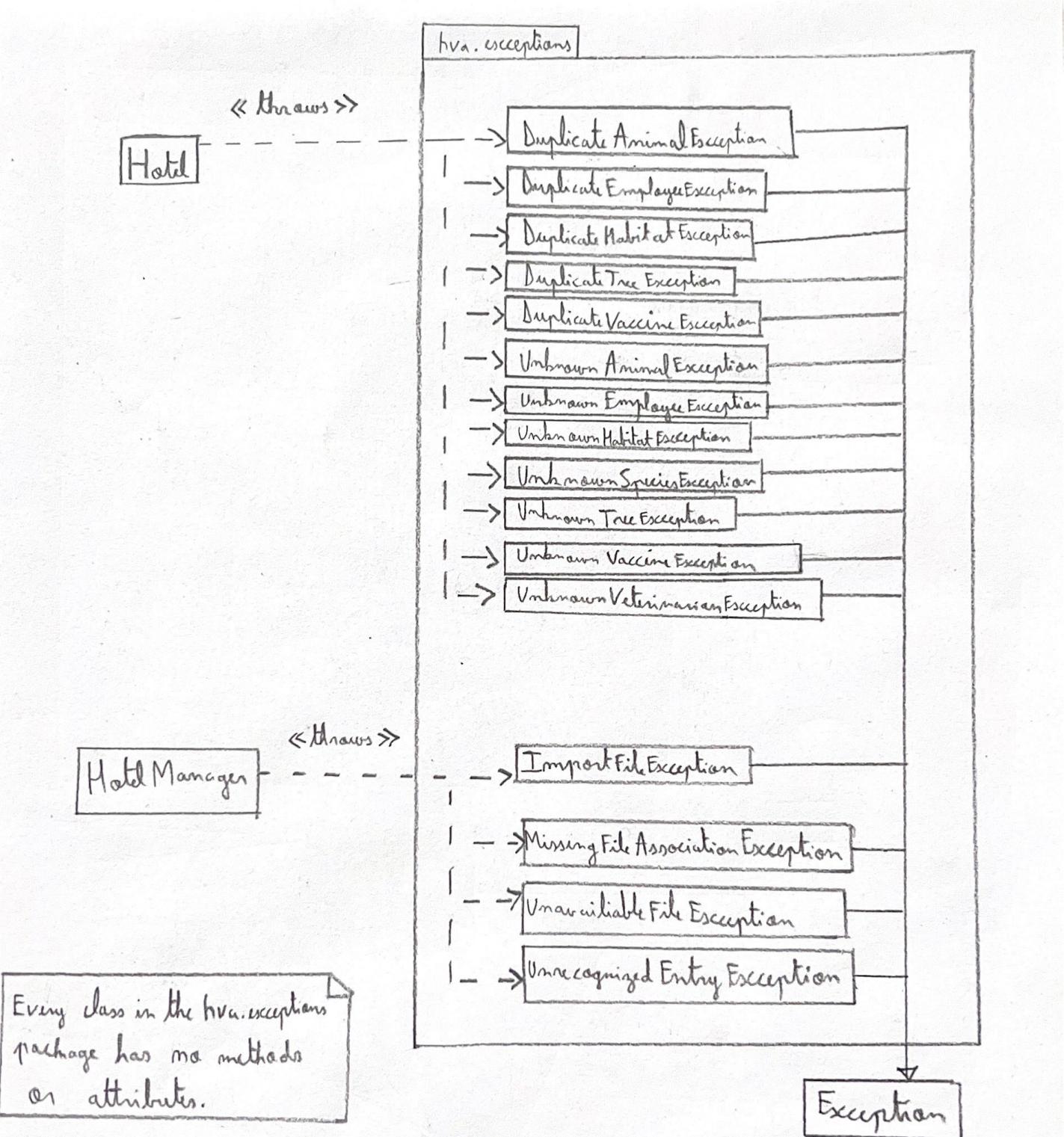


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## Hotel Manager

```
- - hotel: Hotel  
+ save(): void  
+ saveAs(filename: String): void  
+ load(filename: String): void  
+ importFile(filename: String): void  
+ createFile(): void  
+ showGlobalSatisfaction(): void
```

## Hotel

```
- - filename: String  
- - speciesRegistry: List<Species>  
- - animalsRegistry: List<Animal>  
- - habitatRegistry: List<Habitat>  
- - employeesRegistry: List<Employee>  
- - currentSeason: Season  
- - vaccinesRegistry: List<Vaccine>  
- - vaccineRegistryOrder: List<Vaccine, Vet, Animal>  
- - vaccineRegistryHarm: List<Vaccine, Vet, Animal>  
- - globalRegistryHashMap<String, Object>  
+ registerAnimal(animalKey: String, animalName: String, speciesKey: String, habitatKey: String): void  
+ showAllAnimals(): String  
+ showSatisfactionOfAnimal(animalKey: String): int  
+ transferToHabitat(animalKey: String, habitatKey: String): void  
+ registerEmployee(employeeKey: String, employeeName: String, employeeType: String): void  
+ addResponsability(employeeKey: String, responsibilityKey: String): void  
+ removeResponsability(employeeKey: String, responsibilityKey: String): void  
+ showAllEmployees(): String  
+ showSatisfactionOfEmployee(employeeKey: String): int  
+ registerHabitat(habitatKey: int, habitatName: String, habitatArea: int): void  
+ changeHabitatArea(habitatKey: String, habitatArea: int): void  
+ changeHabitatInfluence(habitatKey: String, speciesKey: String, habitatInfluence: String): void  
+ showAllHabitats(): String  
+ addTreeToHabitat(habitatKey: String, treeKey: String, treeName: String, treeAge: int, treeDifficulty: int, treeType: String): void  
+ showAllTreesInHabitat(habitatKey: String): String  
+ registerVaccine(vaccineKey: String, vaccineName: String, listOfSpeciesKeys: List<String>): void  
+ vaccinateAnimal(vaccineKey: String, veterinarianKey: String, animalKey: String): void  
+ showVaccinations(): String  
+ showAllVaccines(): String  
+ showAnimalsInHabitat(habitatKey: String): String  
+ showMedicalActsOnAnimal(animalKey: String): String  
+ showMedicalActsByVeterinarian(employeeKey: String): String  
+ showWrongVaccinations(): String  
+ advanceSeason(): void
```

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## Species

- speciesKey: String  
- speciesName: String  
- animalsOfSpeciesRegistry: List<Animal>  
+ addAnimal(Animal animal): void  
+ lengthNameSpecies(specie: Species): int  
+ length(): int  
+ commonChrons(specie: Species): int

## Animal

- animalKey: String  
- animalName: String  
- specie: Species  
- animalHealth: string  
- vaccinesAdmittedRegistry: List<Vaccine, Veterinarian>  
+ harm(vaccine: Vaccine): void

## Handler

- habitatsOfHandler: List<Habitat>  
+ addResponsability(habitatKey: string): void  
+ removeResponsability(habitatKey: string): void  
+ work(): double

## Veterinarian

- animalsOfVeterinarianRegistry: List<Animal>  
- vaccinesAdmitted: List<Vaccine, Animal>  
+ addResponsability(animalKey: string): void  
+ removeResponsability(animalKey: string): void  
+ work(): double

## Habitat

- habitatKey: String  
- habitatName: String  
- habitatArea: int  
- animalsInHabitatRegistry: List<Animal>  
- treesInHabitatRegistry: List<Tree>  
- speciesRegistry: List<Species>  
- handlersNumber: int  
  
+ animalsEqual(animal: Animal): int  
+ animalsDifferent(animal: Animal): int  
+ adequacy(animal: Animal): int  
+ addAnimal(animal: Animal): void  
+ removeAnimal(animal: Animal): void  
+ addTree(treeKey: string): void  
+ showTrees(): string  
+ work(): int

## Calculate Satisfaction

+ calculateSatisfaction(): int

## Season

+ nextSeason(): void

## Vaccine

- vaccineKey: String  
- vaccineName: String  
- listSpecies: List<Species>  
- listVaccineOrder: List<Animal, Veterinarian>  
+ addVaccination(animal: Animal, vet: Veterinarian): void

## Tree

- treeKey: String  
- treeName: String  
- treeAge: int  
- treeType: String  
- treeDifficulty: int  
- habitat: Habitat  
  
+ cleaningEffort(): int  
+ seasonalEffort(): int

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Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo do projeto: Joana Cardoso ist1909864