

FileException

DuplicateException

UnknownException

ResponsibilityException

Exception

«enumeration»  
Season

- currentSeason

HotelManager

- hotel

Hotel

Register

- registers

- vet

Vaccination

Vet Satisfaction

Caretaker Satisfaction

Cleanings

Animal Satisfaction

«abstract»  
Calculator

vet

Caretaker

Trees

Vaccines

- allVaccines

- allVaccinations

Species

- allSpecies

«abstract»  
Employees

- allEmployees

Habitats

- allHabitats

Animals

- allAnimals

- animal

Attributes and methods  
of each (non-empty)  
class is represented  
on the other pages

## Hotel

- allAnimals: Collection<Animals>
- allEmployees: Collection<Employees>
- allSpecies: Collection<Species>
- allHabitats: Collection<Habitats>
- allVaccines: Map<Vaccines, int>
- allVaccinations: Collection<Vaccines>
- currentSeason: Season
- + registerHabitat(id: String): void
- + registerVaccine(id: String): void
- + registerAnimal(id: String): void
- + registerEmployee(id: String): void
- + showAnimalsInHabitat(idH: String): void
- + showMedicalActsByVetAndVaccination(idV: String): void
- + showMedicalActionAnimal(): void
- + showWrongVaccinations(): void
- + showAllHabitats(): void
- + showAllTreesInHabitat(idH: String): void
- + showAllVaccines(): void
- + showVaccinations(): void
- + showAllAnimals(): void
- + showSatisfactionOfAnimal(): void
- + showAllEmployees(): void
- + showSatisfactionOfEmployee(): void
- + showGlobalSatisfaction(): void
- + addTreeToHabitat(idH: String, idT: String): void
- + changeHabitatArea(id: String): void
- + changeHabitatInfluence(idH: String, idS: String): void
- + vaccinateAnimal(idV: String, idA: String): void
- + transferToHabitat(): void
- + addResponsibility(idE: String): void
- + removeResponsibility(idE: String): void
- + advanceSeason(): void
- + newFile(): void
- + openAnimalsMenu(): void
- + openEmployeesMenu(): void
- + openFile(): void
- + openHabitatsMenu(): void
- + openVaccinesMenu(): void
- + save(): void
- + saveAs(filename: String): void
- + load(filename: String): void

## HotelManager

- hotel: Hotel
- + registerHabitat(id: String): void
- + registerVaccine(id: String): void
- + registerAnimal(id: String): void
- + registerEmployee(id: String): void
- + showAnimalsInHabitat(idH: String): void
- + showMedicalActsByVetAndVaccination(idV: String): void
- + showMedicalActionAnimal(): void
- + showWrongVaccinations(): void
- + showAllHabitats(): void
- + showAllTreesInHabitat(idH: String): void
- + showAllVaccines(): void
- + showVaccinations(): void
- + showAllAnimals(): void
- + showSatisfactionOfAnimal(): void
- + showAllEmployees(): void
- + showSatisfactionOfEmployee(): void
- + showGlobalSatisfaction(): void
- + addTreeToHabitat(idH: String, idT: String): void
- + changeHabitatArea(id: String): void
- + changeHabitatInfluence(idH: String, idS: String): void
- + vaccinateAnimal(idV: String, idA: String): void
- + transferToHabitat(): void
- + addResponsibility(idE: String): void
- + removeResponsibility(idE: String): void
- + advanceSeason(): void
- + newFile(): void
- + openAnimalsMenu(): void
- + openEmployeesMenu(): void
- + openFile(): void
- + openHabitatsMenu(): void
- + openVaccinesMenu(): void
- + save(): void
- + saveAs(filename: String): void
- + load(filename: String): void

## Habitats

- id: String
- name: String
- area: int
- treeList: Trees[]
- info: Map<String, int[]>
- workers: int
- animals: Animals[]

## Trees

- id: String
- name: String
- age: int
- cleaningDifficulty: int
- type: String
- + increaseAge(): void

## <<enumeration>>

### Season

SPRING  
SUMMER  
AUTUMN  
WINTER

Methods "equals" and "toString" have been omitted since they inherited from Object. Getters and setters have also been omitted. Every class, except HotelManager implements Serializable and class Serializable has been omitted.

```

+ openHabitatMenu(): void
+ openLookUpMenu(): void
+ openVaccineMenu(): void
+ importFile(filename: String): void

```

```

+ importFile(filename: String): void

```

```

Vaccines
- _id: String
- _name: String
- _speciesList: Species[]
- _registers: Collection<Register>

```

```

<<abstract>>
Calculator

```

```

Vaccination
+ damage(v: Vaccine, a: Animals): String

```

```

Register
- _animal: Animals
- _vet: Vet

```

```

Animals
- _id: String
- _name: String
- _idSpecies: String
- _idHabitat: String
- _health: String[]

```

```

Vet Satisfaction
+ vetSatisfaction(v: Vet): int

```

```

Animal Satisfaction
+ animalSatisfaction(a: Animals): int

```

```

<<abstract>>
Employees
- _id: String
- _name: String

```

```

Cleaning
+ cleaning(t: Time): int

```

```

Caretaker Satisfaction
+ caretakerSatisfaction(c: Caretaker): int

```

```

Vet
- _idSpecies: String[]

```

```

Species
- _id: String
- _name: String
- _count: int[]
- _animals: Collection<Animals>

```

```

Caretaker
- _idHabitats: String[]

```

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

Leonar Almeida

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

Grupo 020:  
Leonar Almeida  
Rafaela Yang

```

hva.exceptions
FileException
DuplicateException
UnknownException
ResponsibilityException

```