

Duplicate Animal Exception

Duplicate Employee Exception

Duplicate Habitat Exception

Duplicate Tree Exception

Duplicate Vaccine Exception

Open File Exception

Non Existant Responsibility Exception

Unknown Animal Exception

Unknown Employee Exception

Unknown Habitat Exception

Unknown Species Exception

Unknown Tree Exception

Unknown Vaccine Exception

Unknown Veterinarian Exception

Veterinarian Do Not Have Permission Exception

Import File Exception

Missing File Association Exception

Unavailable File Exception

Unrecognized Entry Exception



Exception

Animal

- id: String
- name: String
- health: String
- species: String
- habitat: String
- healthHistory: String[]

+ add Animal To Habitat (id Habitat: String): void
+ remove Animal From Habitat (id Habitat: String): void

Species

- id: int
- name: String
- animalList: String[]

+ getSpeciesPopulation(): int
+ getAnimals(): Animal[]

<<abstract>>

Employee

- id: String
- name: String

+ add New Responsibility (id Responsibility: String): void
+ remove Current Responsibility (id Responsibility: String): void

Keeper

- responsibleHabitats: int[]

Vet

- responsibleSpecies: int[]

Vaccine

- id: String

- name: String

- species: String[]

+ applyVaccine(): void

+ calculateVaccineDamage(Animal animal): int

+ numberVaccinations(): int

Vaccine Request

- animal: Animal

- vaccine: Vaccine

- vet: Vet

- health: String

+ get By Animal (id: int): Vaccine Request

+ get By Vaccine (id: int): Vaccine Request

+ get By Vet (id: int): Vaccine Request

<interface>

Calculator

+ calculate(T: Type): int

Calculate Animal Satisfaction

Calculate Cleaning Effort

+ cleaningComplexity(tree: tree): int

Calculate Global Satisfaction

Calculate Keeper Satisfaction

+ work(keeper: keeper): int

+ workInHabitat(habitat: Habitat): int

+ get Same Habitat keeper(keeper: Keeper[]): int

Calculate Vet Satisfaction

+ work(vet: vet): int

+ get Same Species Vet(): int

+ get Caring Animals(): int

Hotel

- idSpecies: String[]
- idHabitat: String[]
- idVet: String[]
- idKeeper: String[]
- idTree: String[]
- idVaccine: String[]
- idVaccine ~~Ap~~ Regist: String[]

- + getHabitat(String id): Habitat
- + getAnimal(String id): Animal
- + getEmployee(String id): Employee
- + getVaccine(String id): Vaccine
- + getTree(String id): Tree
- + getVet(String id): Vet
- + showAllAnimals(): void
- + registerAnimal(String idAnimal, String name, String idSpecies, String idHabitat): void
- + transferToHabitat(String idAnimal, String idHabitat): void
- + showSatisfactionOfAnimal(String idAnimal): void
- + showAllEmployees(): void
- + registerEmployee(String idEmployee, String name, String type): void
- + addResponsability(String idResponsability): void
- + removeResponsability(String idResponsability): void
- + showSatisfactionOfEmployee(String idEmployee): void
- + showAllHabitats(): void
- + registerHabitat(String idHabitat, String name, int area): void
- + changeHabitatArea(String idHabitat, int newArea): void
- + changeHabitatInfluence(String idHabitat, String idSpecies, String newInfluenc, void): void
- + showAllTreeInHabitat(String idHabitat): void
- + showAllVaccines(): void
- + registerVaccine(String idVaccine, String name, String[] idSpecies): void
- + vaccinateAnimal(String idVaccine, String idVet, String idAnimal): void
- + showVaccinations(): void
- + showMedicalActsOnAnimal(String idAnimal): void
- + showMedicalActsByVet(String idVet): void
- + showWrongVaccinations(): void

Habitat

- -id
- -name: String
- -animalList: String[]
- -TreeList: String[]
- -area: int
- -speciesInfluence: Map < Integer, Integer >

- + sameSpecies(Species specie): int
- + differentSpecies(Species specie): int
- + getHabitatPopulation(): int
- + getInfluence(Animal animal): int
- + setInfluence(Animal animal, int influence): void
- + getTreesFromHabitat(): Tree[]

Tree

- + -id: int
 - -name: String
 - -age: float
 - -leaf: int
 - -habitat: String
 - -cleaningDifficulty: int
- + getAge(): int
 - + seasonalEffort(): int

Hotel Manager

- -CurrentSeason : int

+ Save() : void
+ SaveAs(String filename) : void
+ load(String filename) : void
+ ImportFile(String filename) : void
+ getHotel() : Hotel
+ newFile() : void
+ openAnimalsMenu() : void
+ openEmployeesMenu() : void
+ openFile() : void
+ openHabitatsMenu : void
+ openLookUpsMenu : void
+ openVaccinesMenu : void
+ saveFile() : void
+ advanceSeason : void
+ showGlobalSatisfaction() : void