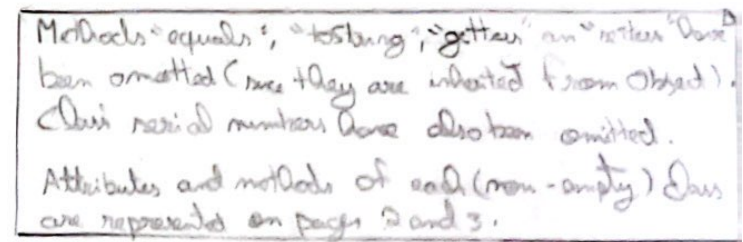


Guilherme Monteiro
est 190 458
Grupo 105



Hotel

- animals : Map <String, Animal>
- habitats : Map <String, Habitat>
- species : Map <String, Species>
- trees : Map <String, Tree>
- employees : Map <String, Employee>
- vaccines : Map <String, Vaccine>
- vaccineRecords : List <String>

- + registerAnimal (idAnimal: String, nameAnimal: String, idSpecies: String, idHabitat: String): void
- + showAllAnimals(): void
- + showSatisfactionOfAnimal (idAnimal: String): int
- + transferToHabitat (idAnimal: String, idHabitat: String): void
- + addResponsibility (idEmployee: String, idResponsibility: String): void
- + registerEmployee (idEmployee: String, nameEmployee: String, type: String): void
- + removeResponsibility (idEmployee: String, idResponsibility: String): void
- + showAllEmployees(): void
- + showSatisfactionEmployee (idEmployee: String): int
- + addTreeToHabitat (idHabitat: String, idTree: String, nameTree: String, age: int, cleaning: String, treeType: String): void
- + changeHabitatArea (idHabitat: String, area: int): void
- + changeHabitatInfluence (idHabitat: String, idSpecies: String, influenceType: InfluenceType): void
- + registerHabitat (idHabitat: String, nameHabitat: String, area: int): void
- + showAllHabitats(): void
- + showAllTreesInHabitat (idHabitat: String): void
- + showAnimalsInHabitat (idHabitat: String): void
- + showMedicalActByVeterinarian (idVet: String): void
- + showMedicalActionAnimal (idAnimal: String): void
- + showWrongVaccinations
- + RegisterVaccine (idVaccine: String, nameVaccine: String, applicableSpecies: List <String>): void
- + showAllVaccines(): void
- + showVaccinations (idAnimal: String): void
- + vaccinateAnimal (idVaccine: String, idVet: String, idAnimal: String): void

Hotel Manager

- hotel : Hotel
- filename: String

- + advanceSearch(): void
- + NewFile (newFileName: String): void
- + OpenAnimalsMenu(): void
- + OpenEmployeesMenu(): void
- + OpenFile (filePath: String): void
- + OpenHabitatsMenu(): void
- + OpenLookupMenu(): void
- + OpenVaccinesMenu(): void
- + SaveFile(): void
- + ShowClosedSatisfaction(): void

Animal
<ul style="list-style-type: none"> - idAnimal: String - nameAnimal: String - healthAnimal: String - species: Species - habitat: Habitat - vaccinations: List<Vaccines> - healthHistory: List<String>
<ul style="list-style-type: none"> + addVaccination(vaccination: Vaccination): void + showVaccinationHistory(): void + showWrongVaccinations(): void + addHealthHistory(damage: int): void + showHealth(): void

Species
<ul style="list-style-type: none"> - idSpecies: String - nameSpecies: String - animals: List<Animal>
<ul style="list-style-type: none"> + addAnimal(animal: Animal): void

Habitat
<ul style="list-style-type: none"> - idHabitat - nameHabitat - area: int - animals: List<Animal> - trees: List<Tree> - influence: Map<Species, Influence>
<ul style="list-style-type: none"> + addAnimal(animal: Animal): void + removeAnimal(animal: Animal): void + addTree(tree: Tree): void + removeTree(area: int): void + showAllTrees(): void

Tree
<ul style="list-style-type: none"> - idTree: String - nameTree: String - age: int - cleaning: String - treeType: String - currentSeason: String - SEASONAL-EFFORT: Map<String, Map<String, Integer>>
<ul style="list-style-type: none"> + advanceSeason(): void + calculateCleaningEffort(calculator: Calculator): double

<<abstract>> Employee
<ul style="list-style-type: none"> - idEmployee: String - nameEmployee: String - responsibilities: Set<String>
<ul style="list-style-type: none"> + addResponsibility(responsibility: String): void + removeResponsibility(responsibility: String): void + calculateSaturation(calculator: Calculator): int + calculateWork(calculator: Calculator, habitat: Habitat): double

Veterinarian
<ul style="list-style-type: none"> + canAdministerVaccine(vaccine: Vaccine): boolean + showMedicalAids(): void

Vaccine
<ul style="list-style-type: none"> - idVaccine: String - nameVaccine: String - applicableSpecies: List<Species>
<ul style="list-style-type: none"> + isApplicableTo(species: Species): boolean

<<interface>> Calculator
<ul style="list-style-type: none"> + calculateCleaningEffort(tree: Tree, currentSeason: String, treeType: String, age: int): double + calculateSaturation(employee: Employee): int + calculateWork(employee: Employee, habitat: Habitat): double + calculateVaccineDamage(vaccine: Vaccine, animal: Animal): int + calculateNameDamage(species: String, speciesString): int

Coordinator