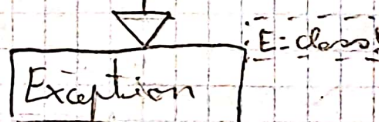
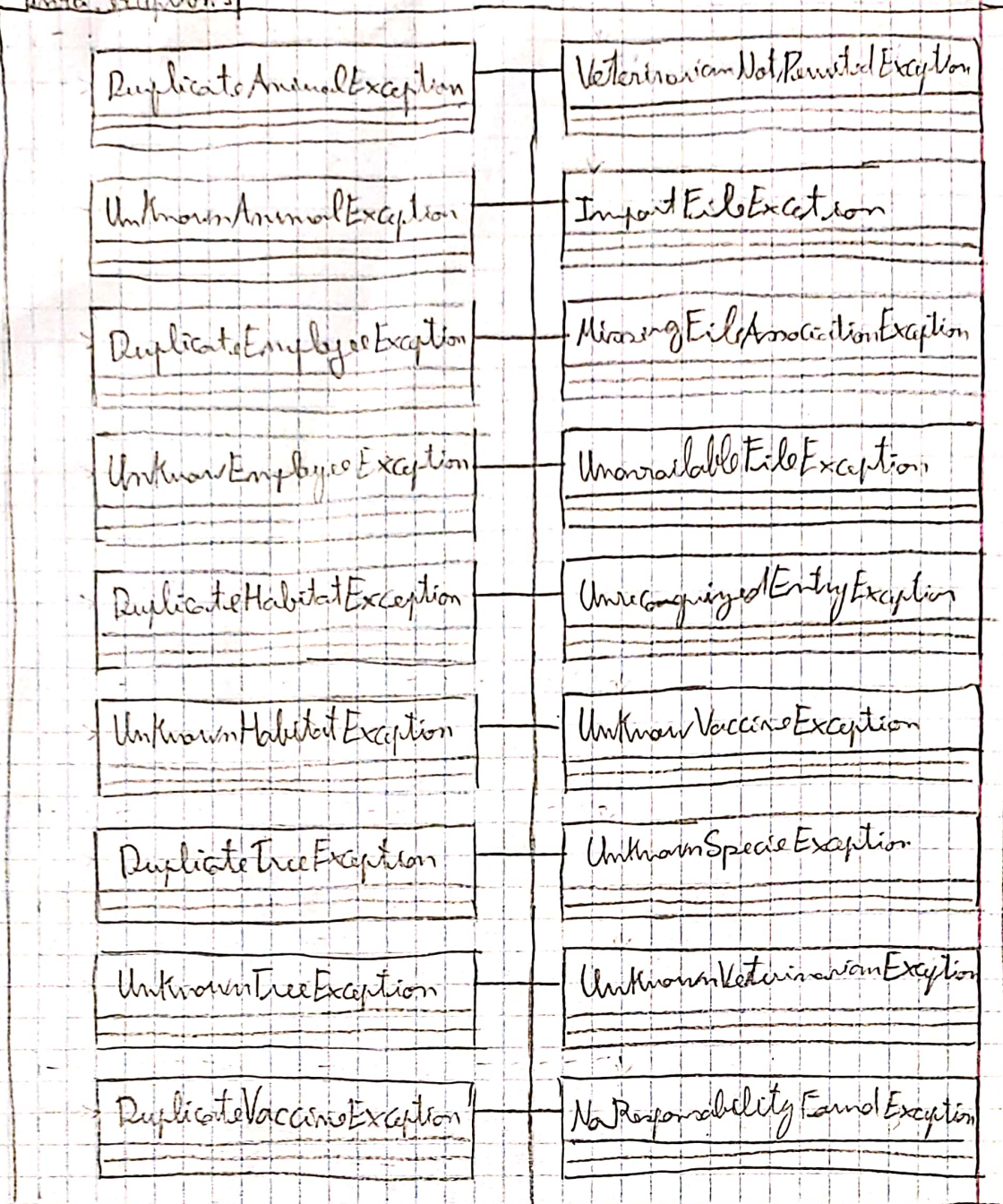


Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projecto. Guilherme Lopes

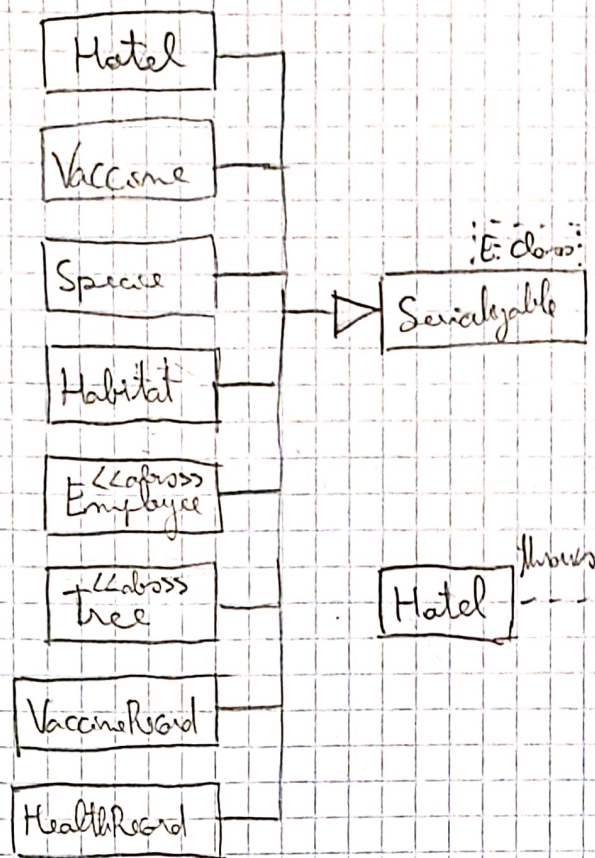
Declaro por minha honra que este diagrama foi realizado apenas pelos elementos que constituem o grupo de projecto. Pedro Vicente

(1)

Exceptions

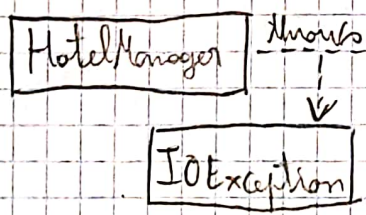


②



throws exceptions

- > DuplicateAnimalException
- > UnknownAnimalException
- > DuplicateEmployeeException
- > UnknownEmployeeException
- > DuplicateHabitatException
- > UnknownHabitatException
- > DuplicateTreeException
- > UnknownTreeException
- > DuplicateVaccineException
- > UnknownVaccineException
- > UnknownSpeciesException
- > UnknownVeterinarianException
- > NoResponsibilityFoundException
- > VeterinarianNotPermittedException
- > ImportFileException
- > MissingFileException
- > FileNotFoundException
- > UnavailableFileException



Animal
- id: String - name: String
+ Animal(id: String, name: String, species: Species, habitat: Habitat) + satisfaction(): double

Species
- id: String - name: String
+ Species(id: String, name: String) + showAllAnimalsOfSpecies(): void

<<abs>> Employee
- id: String - name: String
+ Employee(id: String, name: String) + <<abs>> addResponsibility(o: Object): void + <<abs>> removeResponsibility(o: Object): void + <<abs>> satisfaction(): double

Veterinarian
+ Veterinarian(id: String, name: String) + vaccinateAnimal(Animal: Animal, vaccine: Vaccine): void

Zookeeper
+ Zookeeper(id: String, name: String)

Habitat
- POS: int = 20 - NEU: int = 0 - NEG: int = -20 - id: String - name: String - area: int - treeNumber: int - numberOfZookeepers: int = 0 + Habitat(id: String, name: String, area: int) + showAllTrees(): Void + changeHabitatInfluence(species: Species, influence: int): Void + plantNewTree(Tree: tree): Void

Tree
- id: String - name: String - age: int - cleaningDifficulty: int - firstSeason: int + Tree(id: String, name: String, age: int, cleaningDifficulty: int, firstSeason: int) + ageUp(): Void

Deciduous
+ Deciduous(id: String, name: String, age: int, cleaningDifficulty: int, firstSeason: int)

Evergreen
+ Evergreen(id: String, name: String, age: int, cleaningDifficulty: int, firstSeason: int)

SeasonalCalculator
+ seasonalEffort(): int

Interface Calculator

+ calculateSatisfaction(): double

Vaccine

- id: String

- name: String

+ vaccinate(id: String, name: String, species: String)

+ showVaccinations(): void

+ done(Animal: Animal): void

HotelManager

+ advanceReservation(): void

+ newFile(): file

+ importFile(filename: String): void

+ openAnimalMenu(): void

+ openEmployeesMenu(): void

+ load(filename: String): void

+ openHabitsMenu(): void

+ openLookupMenu(): void

+ saveAs(filename: String): void

+ openVaccineMenu(): void

+ showGlobalSatisfaction(): int

+ save(filename: String): void

VaccineRecord

- idVaccine: String

- idVeterinarian: String

- idSpecies: String

+ VaccineRecord(idVaccine: String, idVet: String, idSpecies: String)

HealthRecord

- healthState: String

+ HealthRecord(healthState: String)

Habit

~ SPRING: $id = 0$

~ SUMMER: $id = 1$

~ AUTUMN: $id = 2$

~ WINTER: $id = 3$

- actualSeason: int

+ importFile(filename: String): void

+ traceScreen(): void

+ globalSatisfaction(): int

+ showAllAnimals(): void

+ registerAnimal(id: String, name: String,
idSpecies: String, idHabitat: String): void

+ transferAnimalToHabitat(id: String, idHabitat: String): void

+ animalSatisfaction(id: String): void

+ showAllEmployees(): void

+ registerEmployee(id: String, name: String, type: String): void

+ addResponsibilityToEmployee(id: String, responsibility: String): void

+ removeResponsibilityOfEmployee(id: String, responsibility: String): void

+ employeeSatisfaction(id: String): void

+ showAllHabitats(): void

+ registerHabitat(id: String, name: String, area: int): void

+ changeHabitatArea(id: String, area: int): void

+ changeInfluenceAtHabitOfSpecies(id: String, idSpecies: String,
influence: int): void

+ plantTree(id: String, idTree: String,
name: String, cleaning: int, type: String,
age: int): void

+ showAllTreesOfHabitat(id: String): void

+ showAllVaccines(): void

+ registerVaccine(id: String, name: String, species: String): void

+ vaccinateAnimal(id: String, idVet: String, idAnimal: String): void

+ showVaccineRecord(id: String): void

+ showAnimalsOfHabitat(id: String): void

+ showVaccinesOfAnimal(id: String): void

+ showMedicalByVeterinarian(id: String): void

+ showWrongVaccinations(): void

+ addTree(id: String, name: String, cleaning: int, type: String, age: int): void