Repositórios

Models

Services

TaskRepository

+ toggle_task_status(task_id: int)
+ change_owner(owner_id: int, task_id: int)
+ find_employee_tasks(employee_id: int):List<Task>

EmployeeRepository

+ update_managed_department(manager_id: int, department_id: int?)
+ update_role(manager_id: int, role_id: int)
+ update_department(manager_id: int, department: int)

<<Abstract>>
BaseRepository<T>

db:Session = session
model:T

+ create(data: T)
+ update(id: int, data: T)
+delete(id: int)
+ find_by_id(id: int):T
+ find_all:List<Employee>

DepartmentRepository

+ change_manager(department_id: int, manager_id: int)
+ find_many_employees(department_id: int):List<Employee>
+ find_manager(department_id: int):Employee?

RoleRepository

+get_employees(id: int):List<Employee>

Employee

- __tablename__ = "employees"
+ name: string
+ document: string
+ managed_department_id: int?
+ department_id: int?
+ role_id: int?
+ managed_department: Department?
+ department: Department?
+ role: Role
+ tasks: List<Task>

- __repr__():string

Task

- __tablename__ = "tasks"
+ name: string
+ is_done: boolean = false
+ owner_id: int?
+ owner: Employee

- __repr__():string

<<Abstract>>
BaseEntity

+ id: int

Department

- __tablename__ = "departments"
+ name: string
+ manager_id: int
+ manager: Employee

- __repr__():string

Role

- __tablename__ = "roles"
+ name: string
+ employees: List<Employee>

- __repr__():string

0...*
1...1
0...*
0...1
0...*
1...1

RoleService

- __role_repository: RoleRepository
- __options: List<List<str, method>>

- __print_options()
+ main()
- __create()
- __delete()
- __update()
+ list_all()
- __list_employees()
- __get_role_id(): int
- __get_base_infos(): Role

TaskService

- __task_repository: TaskRepository
- __employee_service: EmployeeService
- __options: List<List<str, method>>

- __print_options()
+ main()
- __create()
- __delete()
- __update_name()
- __update_owner()
- __toggle_status()
+ list_all()
- __get_task_id(): int
- __get_base_infos(): Task

MainService

- modules = [EmployeeService, DepartmentService, TasksService, RoleService]

+ main()
- __list_modules()

DepartmentService

- __department_repository: DepartmentRepository
- __options: List<List<str, method>>

- __print_options()
+ main()
- __create()
- __delete()
- __update()
+ list_all()
- __list_employees()
- __print_manager()
- __get_department_id(): int
- __get_base_infos(): Department

EmployeeService

- __employee_repository: EmployeeRepository
- __role_service: RoleService
- __department_service: DepartmentService
- __task_repository: TaskRepository
- __department_repository: DepartmentRepository
- __min_document_length = 9
- __options: List<List<str, method>>

- __print_options()
+ main()
- __create()
- __delete()
- __update_base_data()
+ list_all()
- __update_employee_department()
- __update_managed_department()
- __update_employee_role()
- __list_tasks()
- __get_employee_id(): int
- __get_base_infos(): Employee