ModelMain

Person
- -name: String
- -email: String
- -int: id

- +Person(name: String, email : String, int id, tasks: ArrayList<Task>)
- +overloaded(): Boolean
- +calcWorkload(date: Calendar): float
- +addTask(): void
- +remTask(): void
- +toString(): String
- +getName(): String
- +getEmail(): String
- +getId(): int
- +getTasks(): ArrayList<Task>

#responsible

Center
- -Name

- +Center(name: String)
- +Center(name: String, teachers: ArrayList, scholars, projects: Arraylist)
- +Center(teachers: ArrayList, scholars, projects: Arraylist)
- +createProject(name: String, nick : String, startDate: Calendar, duration: int, mainTeacher: Teacher): void;
- +SImpleBootLoader(path: String)
- +addTeacherToProject(p: Project, t: Teacher): void
- +addScholarToProject(p: Project, s: Scholar): void
- +getPersonByName(name: String): Person
- +getTeacherByName(name: String): Teacher
- +getProjectByName(name: String): Project
- +getScholarByName(name: String): Scholar
- +listFinished(): ArrayList<Project>
- +ListNotFinished(): ArrayList<Project>
- +saveProject(pathName: String)
- +listFreeScholar(): ArrayList<Scholar>
- +getTeachers(): ArrayList<Teacher>
- +getScholars(): ArrayList<Scholar>
- +getProjects(): ArrayList<Projects>
- +getName(): String

-projects

Project
- -name: String
- -nick: String
- -startDate: Calendar
- -endDate: Calendar
- -mainTeacher: Teacher

- +Project(name: String, nick: String, startDate: Calendar, endDate, mainTeacher: Teacher)
- +Project(name: String, nick: String, startDate: Calendar, int duration, mainTeacher: Teacher)
- +Project(name: String, nick: String, startDate: Calendar, int duration, finishedDate: Calendar, mainTeacher: Teacher)
- +deleteTask(t: Task): int
- +getTaskById(id: int): Task
- +listNotStarted(): void
- +listConcluded(): void
- +getTotalPrice(): int;
- +getStartDate(): Calendar
- +getMainTeacher(): Teacher
- +getTeachers(): ArrayList <Teacher>
- +getScholars(): ArrayList <Scholar>
- +getName(): String
- +getTask(): ArrayList <Task>
- +getEstimatedEnd(): Calendar
- +setFinished(): void
- +setEnddate(): void
- +Operation1()

Teacher
- -fieldOfInvestigation: String
- -number: int

- +Teacher(name: String, email: String, field: String, number: int)

-teachers

Scholar
- #salary: int;
- #startDate: Calendar
- #endDate: Calendar

- +Scholar(name: String, email: String, id : int, tasks : ArrayList<Task>, calendar StartDate, calendar: EndDate, project: Project)
- +Scholar(name: String, email: String, id: int, tasks: ArrayList<Task>, calendar StartDate, calendar: EndDate)
- +getSalary(): int
- +getStartDate(): Calendar
- +getEndDate(): Calendar
- +getProject(): Project

-scholars   #project

Student
- #coordinator: Professor

- +Student(name: String, email: String, endDate: Calendar, endDate Calendar, coordinator Teacher)

PhD

- +PhD(name: String, Field: String, endDate: Calendar, endDate Calendar)

Task
- -id: int;
- #status: int
- -startDate: Calendar
- #estimatedFinish: Calendar
- #endTime: Calendar
- #effortRate: double

- +Task(id: int, startDate: Calendar, estimatedFinish : Calendar)
- +Task(id: int, startDate: Calendar, estimatedFinish: Calendar, endTime: Calendar, responsible Person, int status)
- +Task(id: int, startDate: Calendar, estimatedFinish: Calendar, responsible Person, int status)
- +getEffortRate(): double
- +setStatus(): void
- +getStatus(): int
- +getId(): int;
- +getEndTime(): Calendar
- +setEndTime(): void
- +getResponsible(): Person
- +setResponsible(): void
- +getEstimatedFinish(): Calendar
- +getStartDate(): Calendar

#tasks

Bachelor

- +Bachelor(name: String, Field: String, endDate: Calendar, endDate Calendar, coordinator Teacher)

Graduate

- +Graduate(name: String, Field: String, endDate: Calendar, endDate Calendar, coordinator Teacher)

Design

- +Design(id: int, startDate: Calendar, estimatedFinish Calendar)
- +Design(id: int, startDate: Calendar, estimatedFinish Calendar, responsible Person, int status)
- +Design(id: int, startDate: Calendar, estimatedFinish Calendar, endTime: Calendar, responsible Person, int status)
- +toString(): String

Developement

- +Development(id: int, startDate: Calendar, estimatedFinish Calendar)
- +Development(id: int, startDate: Calendar, estimatedFinish Calendar, responsible Person, int status)
- +Development(id: int, startDate: Calendar, estimatedFinish Calendar, endTime: Calendar, responsible Person, int status)
- +toString(): String

Documentation

- +Documentation(id: int, startDate: Calendar, estimatedFinish Calendar)
- +Documentation(id: int, startDate: Calendar, estimatedFinish Calendar, responsible Person, int status)
- +Design(id: int, startDate: Calendar, estimatedFinish Calendar, endTime: Calendar, responsible Person, int status)
- +toString(): String