Class

Class

UniversityMenu

-universityService : UniversityService
-sc : scanner

+UniversityMenu()
+printMenu()

-listTeachers() : void
-listClasses() : void
-addStudentToClass() : void
-createNewClass() : void
-findClassesByStudentId() : void

Service

Class

UniversityService

-teachers : List<Teacher>
-students : List<Students>
-classes : List<Classes>

+UniversityService()
+getTeachers() : List<Teacher>
+getStudents() : List<Students>
+getClasses() : List<Classes>
+addStudentToClass(name:String, age: int, className:String) : boolean
+createClass(name:String, classroom:String, teacherId:int, studentIds:List<Integer> : void
+findClassByStudentId(id:int) : List<Classes>

Models

Abstract Class

Person

-int id
-int age
-String name
-int counter

+getDetails() : String (abstract)
+getId() : int
+get Age() : int
+getName() : String
+setName(name:String) : void
+setAge(age:int) : void
+getCounter() : int (static)

Class

Classes

- classCounter : int (static)
- className : int
- classroom : String
- teacher :Teacher
- students : List<Students>

+Classes(className: String, classroom: String, teacher:Teacher)
+getClassName() : STring
+getTeacher() : Teacher
+addStudent(student:Student)
+removeStudent(student:Student)
+getDetails() : String

Class

Student

+Student(name: String, age: int)
+ getDetails() : String

Acstract Class

Teacher

-base salary : double

+Teacher(name:String, age:int, baseSalary:double)
+getBaseSalary() : double
+calculateSalary() : double (abstract)
+getDetails() : String

Class

FullTime

-yearsWorked : int

+FullTimeTeacher(name:String, age: int, baseSalary:double, yearsWorked:int)
+getYearsWorked() : int
+calculateSalary() : double
+getDetails() : String

Class

PartTime

- hoursWorked : int

+PartTimeTeacher(name:String, age: int, baseSalary:double, hoursWorked:int)
+getHoursWorked() : int
+calculateSalary() : double
+getDetails() : String

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