

+ main : void {static} - init(): List<Student> {static} - runSimulation(List<Student>): void {static}

Logger
- logTxt: String {static final}
- Logger() :
+ log(String) : void {static}
- openLogFile() : PrintWriter {static}
- closeLogFile(PrintWriter) : void {static}

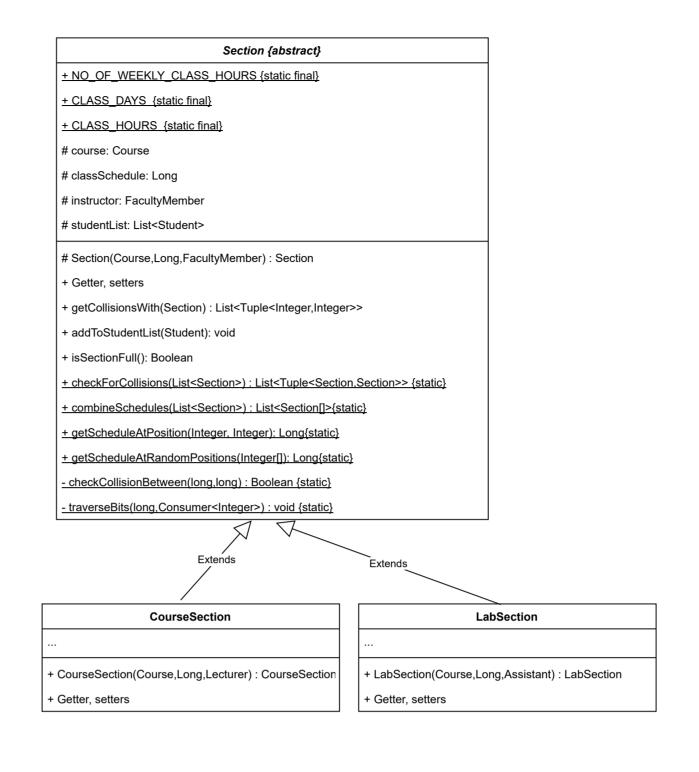
	< <enumeration>></enumeration>			
	LetterGrade			
	LetterGrade			
< <enumeration>></enumeration>	l AA			
Grade				
	BA			
FRESHMAN	b^			
SOPHOMORE	BB			
I SOLITIONIONE				
JUNIOR	CB			
JUNIOR				
	cc			
SENIOR				
	DC			
	l DC			
< <enumeration>></enumeration>	1			
Season	DC			
Season	 			
FALL	l lzz			
SPRING				
01 1(11)				
CLIMATED	NOT CRADED			
SUMMER	NOT_GRADED			
	1 [

	- course: Course
Helper	- IGrade: LetterGra
- rng: Random {static}	- score: Float
+ generateRandomBetween(Integer, Integer): Integer{static}	- season: Season
+ generateRandomFloat(): Float{static}	- grade: Grade
+ getSumOfPowersOfTwoUpTo(Integer): Integer{static}	- isPassed: Boolea
+ generateDistinctClassHours(Integer): Integer[]{static}	+ Getters, setters

	+ getCompletedCredits(): Integer
	Department
- instance : Department {static}	
- code: String	
- currentSeason: Season	
- courses: List <course></course>	
- students: List <student></student>	
- advisors: List <advisor></advisor>	
- lecturers: List <lecturer></lecturer>	
- assistants: List <assistant></assistant>	
- initialized : Boolean	
- Department() :	
+ getInstance() : Department {static}	
+ initialize(Season,List <course>,List<l< th=""><th>ecturer>,List<assistant>,List<advisor>,List<student></student></advisor></assistant></th></l<></course>	ecturer>,List <assistant>,List<advisor>,List<student></student></advisor></assistant>
+ Getters	
- assignFacultyMembersToCourses(): v	roid
- generateWeeklyScheduleForAllCours	es(): void

Transcript

- takenCourseRecords: List <courserecord></courserecord>		
	- value : V	
Grade,	+ Tuple <k,v>(K,V) : Tuple<k,v> + getters</k,v></k,v>	
+ getCompletedCredits(): Integer + checkIfPrerequisitesArePassed(Course): Boolean		
n		
	Grade, I Course): Boolean	



JsonParser

- advisorsFile : String {final}

- lecturersFile : String {final}

- assistantsFile : String {final}

- coursesFile : String {final}

- semesterFile : String {final}

- studentsDir : String {final}

+ parseSemester() : Season

+ parseAdvisors() : List<Advisor>

+ parseLecturers() : List<Lecturer>

+ parseCourses() : List<Course>

- isNull(String) : Boolean

- readJsonFile(String) : Object - readJsonFile(File) : Object - writeToFile(String,String) : void

+ parseAssistants() : List<Assistant>

+ serializeStudents(List<Student>) : void

+ parseStudents(List<Advisor>,List<Course>) : List<Student>

- parseHuman(StringBuilder,StringBuilder,StringBuilder): void - parseHuman(StringBuilder,StringBuilder,StringBuilder): void

- parseHuman(StringBuilder,StringBuilder,StringBuilder): void

- findCourseWithCode(List<Course>,String) : Course

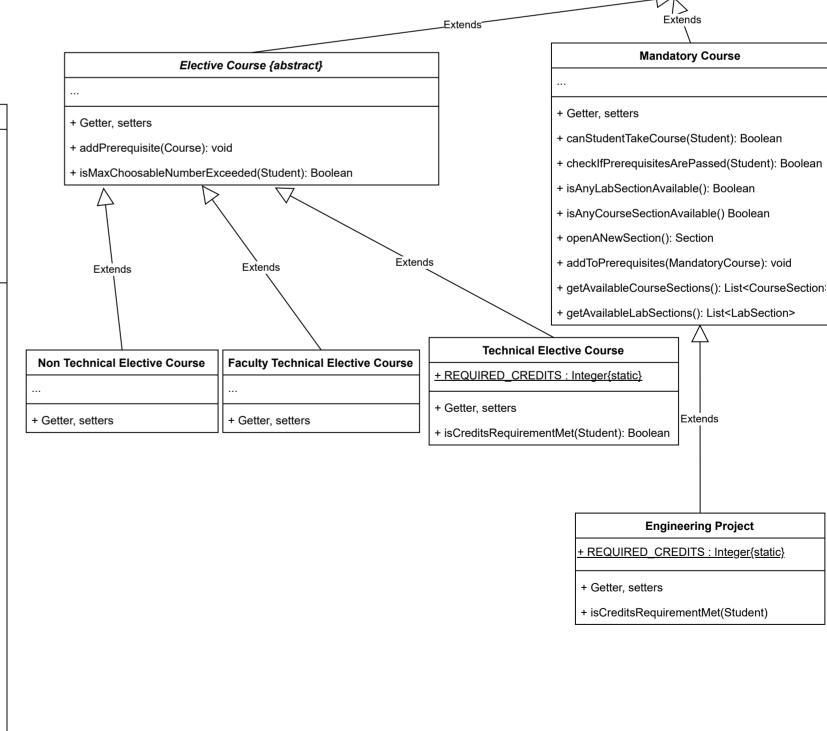
- findAdvisorByName(List<Advisor>,String) : Advisor

- parseCourseRecords(JSONArray,List<Course>) : Course

- assignPrerequisitesToCourses(List<Course>,List<JSONArray>) : void

- JsonParser():

Tuple<K,V>



Course {abstract}

- maxQuota {static final}

- minQuota {static final}

code: String

name: String

credits: Integer

ects: Integer

quota: Integer

theoreticalHours: Integer

lecturers: List<Lecturer>

classes: List<Section>

firstYearToTake: Grade

+ Getter, setters

sectionList: List<Section>

prerequisites: List<Course>

+ getAvailableCourseSections(): List<CourseSection>

+ getAvailableLabSections(): List<LabSection>

+ addToSectionList(Section): void (overridable)

+ isAnyCourseSectionAvailable(): Boolean

+ addPrerequisite(Course): void

+ assignLecturer(Lecturer): void

+ assignAssistant(Assistant): void

+ addCourseSection(Long): void

+ isAnyLabSectionAvailable(): Boolean

+ canStudentTakeCourse(Student): Boolean (overridable)

Extends

+ addLabSection(Long): void

assistants: List<Assistant>

firstSeasonToTake: Season

appliedHours: Integer