

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

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

<<enumeration>> LetterGrade
AA
BA
BB
CB
CC
DC
DC
ZZ
DC
NOT_GRADED

Helper
<u>- rng: Random {static}</u>
<u>+ generateRandomBetween(Integer, Integer): Integer{static}</u> <u>+ generateRandomFloat(): Float{static}</u> <u>+ getSumOfPowersOfTwoUpTo(Integer): Integer{static}</u> <u>+ generateDistinctClassHours(Integer): Integer[] {static}</u>

<<enumeration>> Season
FALL
SPRING
SUMMER

<<enumeration>> Grade
FRESHMAN
SOPHOMORE
JUNIOR
SENIOR

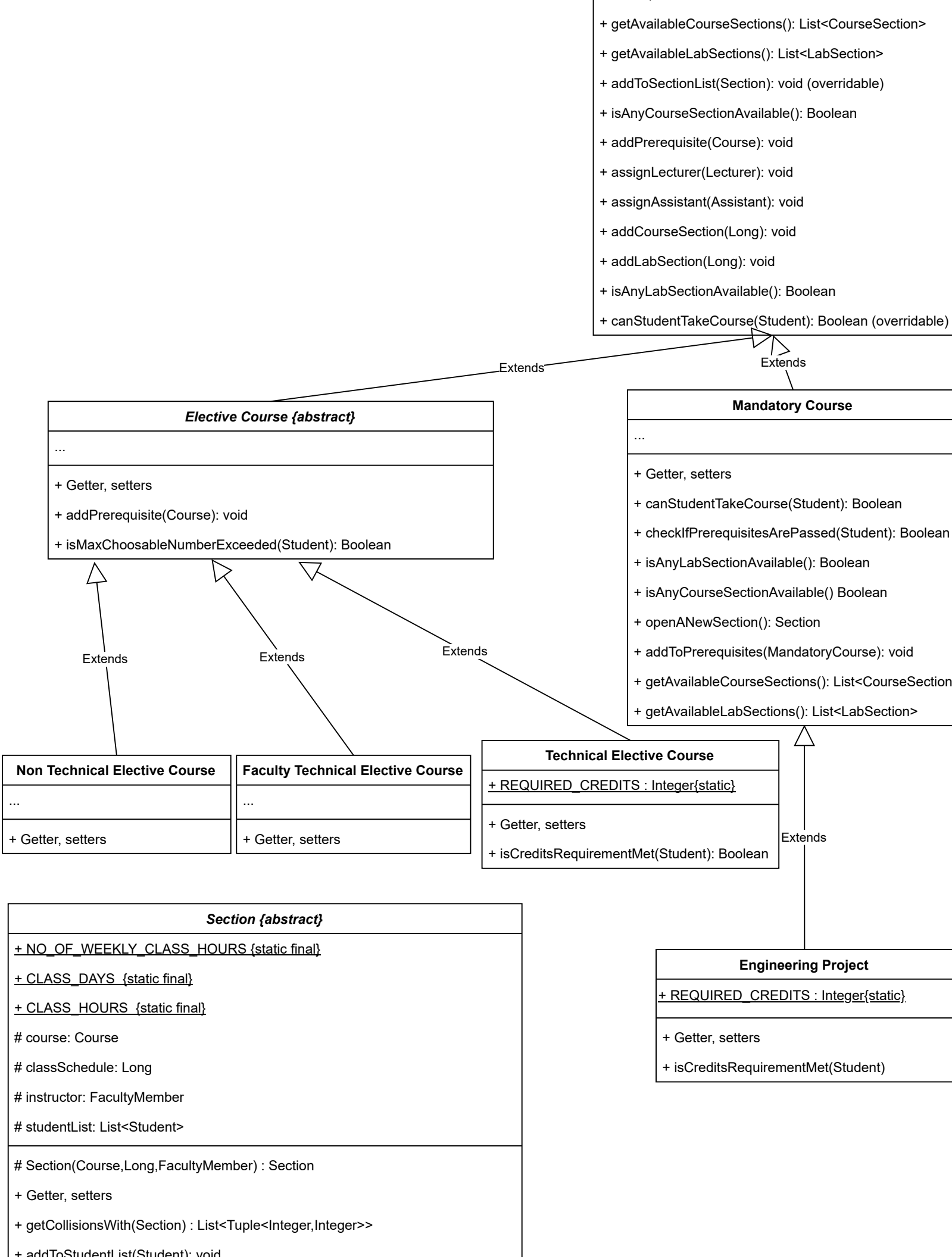
Department
<u>- instance : Department {static}</u> - code: String - currentSeason: Season - courses: List<Course> - students: List<Student> - advisors: List<Advisor> - lecturers: List<Lecturer> - assistants: List<Assistant> - initialized : Boolean
- Department() : <u>+ getInstance() : Department {static}</u> + initialize(Season,List<Course>,List<Lecturer>,List<Assistant>,List<Advisor>,List<Student> + Getters - assignFacultyMembersToCourses(): void - generateWeeklyScheduleForAllCourses(): void

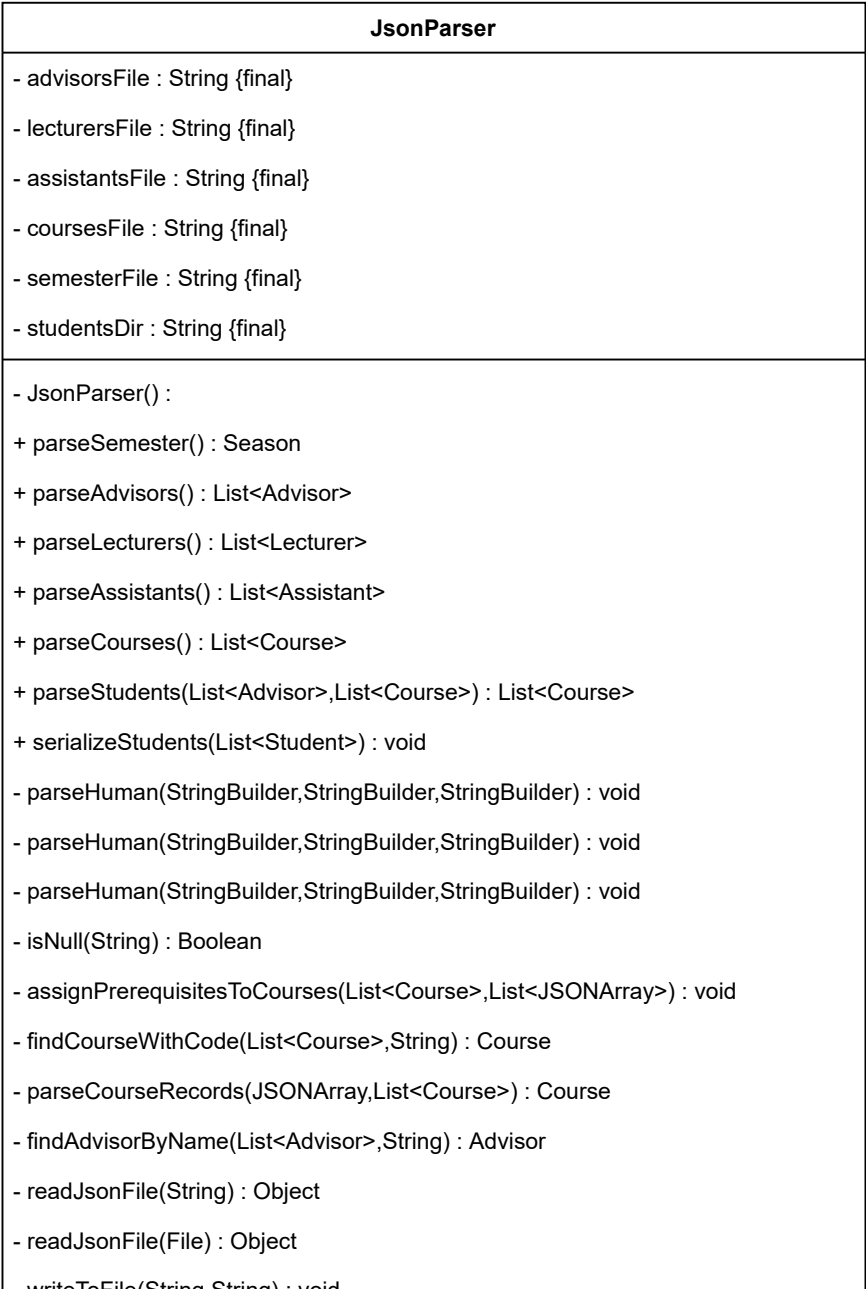
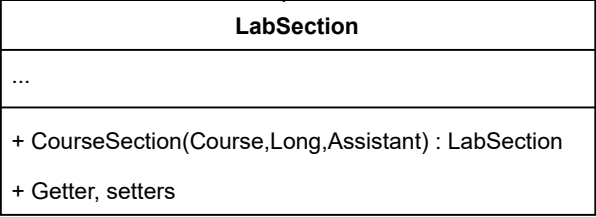
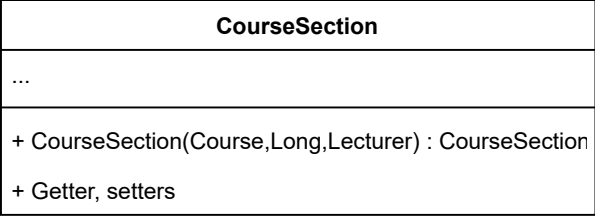
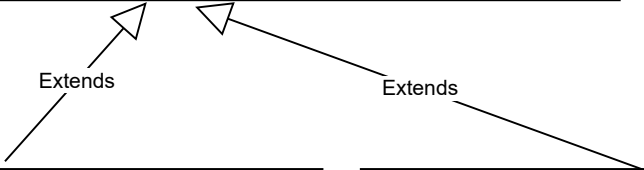
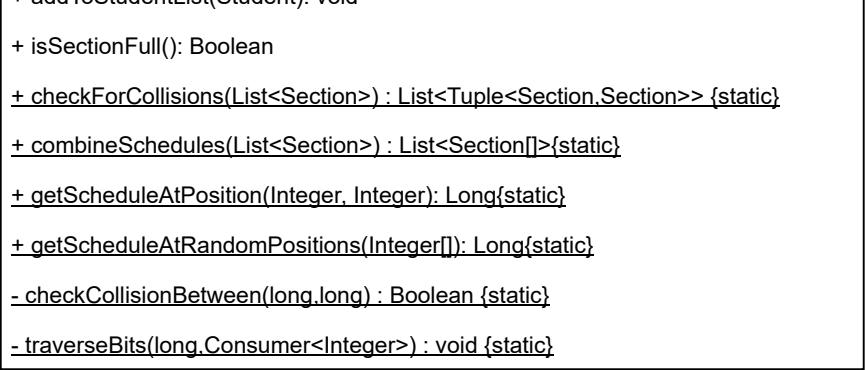
CourseRecord
- course: Course - lGrade: LetterGrade - score: Float - season: Season - grade: Grade - isPassed: Boolean
+ Getters, setters

Course {abstract}
<u>- maxQuota {static final}</u> <u>- minQuota {static final}</u> # code: String # name: String # credits: Integer # ects: Integer # quota: Integer # theoreticalHours: Integer # appliedHours: Integer # lecturers: List<Lecturer> # assistants: List<Assistant> # classes: List<Section> # firstSeasonToTake: Season # firstYearToTake: Grade # sectionList: List<Section> # prerequisites: List<Course>
+ Getter, setters

Transcript
- takenCourseRecords: List<CourseRecord>
+ Getter, setters + addCourseRecord(Course,LetterGrade,Season,Float,Grade,Boolean):void + calculateGPA(): Float + getCompletedCredits(): Integer + checkIfPrerequisitesArePassed(Course): Boolean + didStudentPass(Course): Boolean

Tuple<K,V>
- key : K
- value : V
+ Tuple<K,V>(K,V) : Tuple<K,V> + getters





- writeToFile(String,String) : void