## StudentId - depCode: String = "1501" {readOnly} - year: int - registrationOrder: int + StudentId(year: int, registrationOrder: int) + getStudentId(): String

- getYearString(): String- getRegistrationString(): String

+ toString(): String

## Advisor - firstName: String - lastName: String + Advisor(firstName: String, lastName: String) + approveCourse(courseSection:CourseSection, student: Student) - checkPrerequisite(courseSection:CourseSection, student: Student): boolean - checkCredits(courseSection:CourseSection,

- checkCollision(courseSection:CourseSection, student: Student): boolean

student: Student): boolean

+ getFirstName(): String + getLastName(): String

Schedule
+ DAYS: int = 5
+ HOURS: int = 8
- program: CourseSection[7][8]
- student: Student
+ Schedule (student: Student)
+ addToProgram(courseSection: CourseSection)
+ isCollision(courseSection: CourseSection): boolean
+ getProgram(): CourseSection[[[]
+ setProgram(program: CourseSection[][])

- courseCode: String
- courseName: String
- semester: String
- courseType: String
- quota: int
- credits: int
- sectionHours: int[]
- year: int
- requiredCredits: int
- preRequisite: Course
+ Course(courseCode: String, courseName: String, semester: String, courseType:String, quota: int, credits: int, theoretical: int, practical: int, year:int, requiredCredits: int, preRequisite:Course)
+getPrerequisites():Course[]
+ getSectionHours(): int
+ setSectionHours(theoretical: int, practical: int)
+ getCourseCode(): String
+ getCourseName(): String
+ getSemester():: String
+ getQuota(): int
+ getCredits(): int
+ getPrerequisite(): Course

Transcript

+ Transcript(student: Student)
+ getCompletedCredits()

- student: Student

+ getCourseType(): String + getRequiredCredits(): int Course

CourseSection
- course: Course
- full: boolean
- sectionHour: int
+ students: List <student></student>
- courseProgram:boolean[7][8]
- quotaStatistics: int
- prerequistieStatistics: int
- collisionStatistics: int
+ CourseSection(course:Course)
+ setCourseProgram()
+ addStudent(student:Student)
+ getQuota(): int
+ isFull(): boolean
+ getCourse(): Course
+ getCourseSectionCode(): String
+ setFull(full: boolean)
+ getCollisionStatistics(): int
+ setCollisionStatistics(collisionStatistics: int): int
+ getSectionHour(): int
+ setSectionHour()
+ getStudents(): List <student></student>
+ setCourse(course: Course)
+ getQuotaStatistics(): int
+ setQuotaStatistics(quotaStatistics: int)
+ getPrerequistieStatistics()
+ setPrerequistieStatistics(prerequistiesStatistics: int): int
+ getCourseProgram(): boolean[][]

Grade

+ Grade(intGrade: int, course: Course)

+ getLetterGrade: String

+ getIntGrade(): int

+ getCourse(): Course

+ setCourse(course: Course)

- intGrade: int - course: Course

- semester: String - totalStudents: int[]
- totalStudents: intfl
- totalotadono, milj
- students: List <student></student>
- advisors: List <advisor></advisor>
- courses: List <course></course>
- courseSections: List <coursesection></coursesection>
- passProbability : double
- studentCount: int
- advisorCount: int
- statisticsBuffer: String
+ RegistrationSystem()
- startTheSimulation()
- statisticsOutput()
- registrationProcessOutput()
- printRegistrationProcess()
- printStatistics()
- requestCourses()
- initializeAdvisors()
- initializeStudents()
- appointAdvisors()
- addPastCourses()
+ getOfferedCourses(student: Student): List <coursesection></coursesection>
- readInput()
- findCourse(courseCode: String):Course
+ getSemester(): String
+ setSemester(semester: String)
+ getPassProbability(): double
+ setPassProbability(passProbability: double)
+ getStudentCount(): int
+ setStudentCount(studentCount: int)
+ getAdvisorCount(): int
+ setAdvisorCount(advisorCount: int)

Student
name: String
surname: String
studentId: StudentId
registrationOrder: int
grades: List <grade></grade>
- currentCourses: List <coursesection></coursesection>
- currentYear: int
advisor: Advisor
schedule: Schedule
transcript: Transcript
registrationSystem: RegistrationSystem
- buffer: String
+ Student:(name: String, surname: String, currentYear: int, registrationOrder: int)
addSchedule(courseSection:CourseSection)
addPassedCourse(course: Course)
requestCourse(courseSection:CourseSection)
requestCourses()
getBuffer(): String
setBuffer(buffer: String): void
getName(): String
getSurname(): String
getRegistrationOrder(): int
getStudentId(): StudentId
getGrades(): List <grade></grade>
getCurrentCourses(): List <course></course>
getCurrentYear(): int
getTranscript():Transcript

+ getAdvisor(): Advisor

+ getSchedule(): Schedule

+ setAdvisor(advisor: Advisor): void

+ setSchedule(schedule: Schedule): void

+ getPfferedCourses():List<CourseSection>

+ getPassedCourses(): List<Course>

+ hasPassedCourses(course: Course): boolean