University System UML

Aniket Chavan | June 21, 2020

Student

- zid: String
- enrolments: List<Enrolment>

+ getZID(): String
+ getEnrolments(): List<Enrolment>
+ enrol(CourseOffering c): boolean
+ grade(CourseOffering c, Grade g):

Enrolment

- offering: CourseOffering
- grade: Grade
- student: Student
- sessions: List<Session>

+ getCourse(): Course
+ getTerm(): String
+ addSession(Session session): boolean
+ getGrade(): Grade
+ setGrade()

Grade

- grade: String
- mark: int

+ getMark(): int
+ getGrade(): String

1 .. *

Session

- location: String
- day: DayOfWeek
- start: LocalTime
- end: LocalTime

+ getLocation(): String
+ getDay(): DayOfWeek
+ getStart(): LocalTime
+ getEnd(): LocalTime

1 .. *

CourseOffering

- course: Course
- term: String
- sessions: List<Session>
- enrolments: List<Enrolment>

+ getTerm(): String
+ getCourse(): Course
+ getSessions(): List<Session>
+ addSession(Session session)

Course

- courseCode: String
- courseName: String
- courseCredits: int
- prereqs: List<Course>
- courseOfferings: List<CourseOffering>

+ getCourseCode(): String
+ getCourseTitle(): String
+ getUOC(): int
+ addPrereq(Course course)
+ addOffering(courseOffering c)
+ checkPrereqs(student Student): Bool

Lecture

- lecturer: String

+ getLecturer(): String

Lab

- tutor: String
- labAssistant: String

+ getTutor(): String
+ setTutor(String tutor)
+ getLabAssistant(): String
+ setLabAssistant(String labAssistant)

Tutorial

- tutor: String

+ getTutor(): String