University will contain user list and department list.

User list will contain three list, student list teacher list and admin list. Everyone is an instance of the User class which is an abstract class.

Student has private attributes such name and course they attend and some graduation information which is an important standard to evaluate the course. Every update to graduation information will update the course grade.

Admin has no private attributes, but once they login, they can operate the whole system such as delete some data

Teacher has courses and they belong to one department. They have own attribute info which is to evaluate their ability. This grade will be updated when the courses they teach grade changed.

Course has students list of who attend this course and a teacher who teach it. Also, it has rank to evaluate the value of the course which is depended on student’s graduation information.

Department list will contain department.

department has private attributes such name and teachers and course. Departments contain it’s own rank evaluated by the teachers rank.