

## GradSchoolZero: a graduate program management system (draft)

### Open to team suggestions for 1 week: to be finalized by 9/26

Type of users: 1. **Registrars**: super user who can do anything; 2. **Instructors**: can access courses they are assigned by registrars; 3. **Students**: manage the course they took; 4. **Outside visitors**: can browse some basic information such as classes, students.

#### System requirements:

1. Have a GUI with general introduction of the program and the highest rated classes and the lowest rated classes, and students with the highest GPA, these are available to all visitors.
2. A visitor can apply to be a student of the college, only the registrar can decide to accept or reject the applications. Any students whose GPA is  $> 3.0$  and the program quota is not reached should be accepted, and rejected otherwise. If the registrar made a decision against this rule, s/he should provide a justification to the applicant. Accepted new students will receive a unique student id and password that should be changed in the first login. A visitor can also apply to be an instructor that is also decided by the registrars for approval or rejection without the need of justification: approved instructors will be assigned class(es).
3. A semester goes by 4 periods managed by registrars: **class set-up period**, **course registration period**, **class running period**, and **grading period**. During class set-up period, the registrars set up classes, class time, course instructors and class size. Afterward enters the course registration period, when all matriculated students can register between 2-4 courses if 1) no time conflict among chosen classes; 2) the pre-requisite classes were taken and passed, 3) the upper limit of the course is not reached--if the limit is reached, the student is put in the wait-list that only the course instructor can let in. A student can retake the same class if s/he got F before.
4. In the class running period, no students can register any courses (except a short special registration period as seen below). Students who have less than 2 courses will be warned; courses with less than 5 students will be cancelled: those students of the cancelled courses will be given one more chance to choose other courses (as a special registration period). The instructors whose course were cancelled will be warned. Instructors whose courses were all cancelled will be fired, all fired instructors will not be hired in the next semester.
5. A student who is in a class can write reviews of this class and assign stars (1 worst to 5 best), which will be summarized in the class, no one else except the registrars know who rated which class. A student who rated every class 5 stars or 1 stars for at least 3 times will be questioned for justifications: the student is found wrong, the ratings are removed and the student is warned. The instructor of any course receiving average rating  $< 2$  will be warned. An instructor who accumulated 3 warnings will be fired and not be assigned any class next semester. The student cannot rate the class after the instructor post the grade. Reviews with 1 or 2 taboo words (the list of taboo words are set up by registrars) will be shown but those words are changed to \* and the author receives one warning; whereas reviews with  $\geq 3$  taboo words are not shown in the systems and the author will receive 2 warnings.

6. During grading period instructors assign grades. After this period ends, the instructors who didn't assign grades for all students will be warned. Any instructor whose class GPA is above 3.5 or below 2.5 will be questioned by the registrars, without adequate justifications the instructor will be warned or fired right away. Any students whose GPA is below 2 or who failed the same course twice will be terminated automatically; those whose GPA is between (2, 2.25) will receive a warning demanding an interview with the registrars. Students whose semester GPA is above 3.75 or overall GPA (>1 semester) higher than 3.5 will be labeled as honor roll students automatically, and one such honor can be used to remove one warning if there is any. Students finishing 8 classes (remember this is a graduate student management system) can apply for graduation, if the registrars find all required courses are covered the student will graduate and leave the system with a Master degree. Otherwise the student receives a warning for reckless graduation application.
7. A student can complain another student to the instructor, the instructor is required to process the complaint and issue a warning to the student who was complained if the complaint is right or to the complainer if the complaint is baseless. A student can also complain the instructor to the registrar, the registrar will also process these complaint: either issue a warning to the student or the instructor based on investigation. An instructor can complain a student to the registrars to warn or de-register the student, the registrars must take action: either punish the student accordingly or punish the instructor by one warning. Any students receiving up to 3 warnings will be suspended for 1 semester and must pay a fine to the registrars.
8. After logging in, an instructor has his/her own page that can see all the basic info and the academic records of the students in his/her current class(es); a student has his/her own page that can see his/her own records, a new student will be given a tutorial on how to use the system; a registrar can see everything.
9. A student can drop a class between registration and grading period with a grade W. A student who dropped all courses will be suspended for one semester automatically unless the registrars take action.
10. A creative feature of your team's choice, such smart-phone based system, web-based system, a camera based login, audio help for vision challenged users, etc., which is 10% of the overall project score. A super creative feature will earn a special bonus, up to another 10% (the bar for a bonus is very high, don't count on it).

**Note:** 1) the system is not necessarily web-based, a local GUI system is fine; 2) no need to use any database, local file system is fine; 3) this is a toy system, no need to have too many students, ~10 is enough to showcase the features of the system; 4) make your system consistent: don't pop up one window after another, stay within one GUI window;