**Pre-Registration System**

**Problem description:** In our department of CSE, section choice and section change raises some problem. One student choose section for a particular course at his/her sweet will. For that reason, sometime misdistribution of student in section wise problem arises. May be in one section with extra student more than 50 when in other section less than 30 student. For that reason, supporting lab facility to a large no of student for a section become difficult. We need such a pre-registration system that will almost equally distribute the student section wise where if a student chooses a section he must have to go to that section forever if exist extra seat in that section. And for retaken student, if they take one or more than one course with a semester they will choose a section they want but Admin will select finally with which section he will continue that semester.

**Analysis:** In this section we will analysis system and will discuss about some probable complex situation.

1. This system will be opened for a limited time after mid term exam for all. Student will pre register their courses for next semester. Student must have to choice retake or improvement courses that time.
2. Those who fail in current semester courses, for them only after final exam when result will be published pre-registration system will be opened again to give them a chance if they want to retake that courses.
3. Student will open an account. Sign up will be email based authentication system.
4. If a student logs in with his id and password, we will load courses base upon his CGPA and pre-requisite course. Before publishing result, we will offer extra 6 credits so that because of his/her course taken limitation. For example:

Student A completed Math-2. Math-3 result doesn’t publish yet. So, based upon Math-2 we will offer Math-4.

After result have been published:

If student A fails in Math-3 then previous application for Math-4 will be cancelled automatically and a notification will be send to him/her.

1. Admin panel can choose maximum student of a section and number of section for one semester. Based upon that section will be created.
2. One retake student can go to from section A to B if in section B have enough seat.

Example: From section A 5 students want to go to section B. And from B to A 3 students. Then only 3 students of section A can transfer into section B as well as from B to A 3 students.

1. Regular students can’t change section after they have been assigned to a section.
2. In spite of uncompleting pre-requisite course may be adviser specially consider him based upon the permission of the head of the dept. So, in admin panel there will be an option for special consideration.