SCORE MyCourses – A Course Scheduling System

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Scenarios

Context

The MyCourses scheduling system will allow program managers, program administrators, lecturers, and students to create, assign, detail and sign up for courses. This will be an end-to-end system that incorporates an algorithm that will automatically schedule courses based on a list of constraints. The program administrator will designate and list out all the possible courses, times, and location. The program manager determines which courses and lecturers that will be offered in the particular quarter. The lecturer fills out his constraints and information about the course. Finally, the students signs up for the courses.

Scenario 1

In this scenario, we will outline the relationship between the Program Manager and the MyCourses system. For this particular system, Program Managers are segregated into different subjects (Art, Computer Science, Economics). The Lecturer has not yet submitted any constraint information.

1. The Program Manager signs into the browser-based MyCourses system with their credentials
   1. This particular Program Manager is in charge of the Computer Science department.
2. Once logged in, the Program Manager opens a database of all listed courses for the Computer Science department specified by the Program Administrator
   1. This database will be a complete list of courses (in this case Computer Science courses) offered at UCSC.
   2. The database will include course context, teacher (empty value), time (empty value), location (empty value).
3. The Program Manager selects the courses that will be offered for this particular quarter.
4. The Program Manager will also determine the possible lecturers to teach the offered courses.
5. When finished, the Program Manager clicks the “submit” button, and the courses selected will be stored onto another table in the database titled: “Fall 2010”
   1. At this point, the table used will wait till constraints from the lecturers are completed.
   2. Once the lecturers submit their constraints, the Fall 2010 database will be submitted for approval to the Program Administrator

Scenario 2

In this scenario, we will outline the initial relationship between a Lecturer’s first time logging into the MyCourses system before the new quarter begins.