**System Description**

DLO 1: User: The user is an entity which will be making use of the Scheduler web application. The user can be a Student or an Administrator. The User will log into the Schedule app using a username and password. A User will not be logged in if they enter the wrong username and password, or an invalid username and/or password.

DLO 2: Administrator: The administrator is one of the two types of users of the Scheduler application. The admin is a privileged user as it will have higher access rights than the other type of user, which is the student. The admin will have the rights to set/edit the capacity of a course section, to empty a course section, and in general manages a course section. The admin is typically expected to be a professor or a course advisor. A single administrator has rights to as many sections as they want.

DLO 3: Student: The student is the second type of user that will access the Scheduler application. The student is not a privileged user like the admin because they have limited access rights to the Scheduler. The student has one student record which keeps track of each individual student’s information, preferences which will be user settings that are remembered on a case-by-case basis, and a chosen amount of courses depending on the student’s preference or course sequence. The student has no direct access to the course sections.

DLO 4: Scheduler: The Scheduler is the entity encapsulating the entire Web application. This will be the center of the user’s schedule building process. Once logged in, the user will be able to choose their own courses and sections, view and modify their schedule, and input their preferences in order to build a schedule based on those preferences. The user will also be able to view their course sequence suggested by their program, and will be able to view their student record to view the courses that they have already taken.

DLO 5: Courses:

DLO 6: Section: The section of a course, managed by an administrator, is an entity representing a timeslots at which students can attend a course given by an instructor in a certain classroom. A section holds as information its section number, the full name of the instructor teaching the course, the times and the classroom numbers at which the lectures, laboratories and tutorials are held.

DLO 7: Preferences: The preferences of a student consist of a set of filters to be applied when generating the student’s class schedule. Examples of possible preferences include a filter to allow students to choose whether they prefer morning or afternoon classes, a set of days on which they wish to have less classes, and their preferred instructor.

DLO 8: Student Record:

DLO 9: Program:

DLO 10: Schedule: