DLO 1: User: This represents a real world user of the scheduler system. The user can be a registered student or an administrator of the system. A user has a user name ,email and password.

DLO1.1: Student : This represents a student who has an account in the system and can use the schedule generator. A user can specify to the system the courses they have completed , the courses needed and their preferences in creating the schedule.

DLO1.2: Admin: This represents an administrator of the scheduler system. The admin can add , delete or modify courses and section to the scheduler system.

DLO2: Preferences: Preferences are a set of conditions that the student specifies prior to attempting to generate the schedule. preferences’ should be taken into account by the scheduler system during generating the schedule to the student.

DLO3: Course: Represents any course in the software engineering department. Courses can be accessed by an admin who can add or delete or modify courses. A course has many sections , and can have a set f prerequisites. A course can be uniquely identified by an ID.

DLO4 Section: A section represents a real section that students attend. As section always needs to be related to one specific course. It can be either a lecture , lab or tutorial. It has specific start time and end time and is given on certain week days.

DLO5 Prerequisites: Represent courses that prerequisites to other courses. The system should make sure that a student has satisfied all the prerequisites of a certain course priors to adding it to their schedule.

DLO6: Scheduler\_Student: This is responsible for allowing students to add or drop the courses that they need in their schedule. Moreover it generates the schedule to students using the courses added and the preferences that the students specify.