

# Documentation of Assumptions for Assignments 1 and 2

## Assignment 1 Assumptions

### 1. User Authentication:

- The application provides login and signup functionality for three user roles: Students, Professors, and Administrators.
- Administrators have a hardcoded email (`admin`) and password (`1`) for login purposes.
- All the user data will be erased at the close of the application, but data will be saved when logged out.

### 2. Student Functionality:

- Students can view open courses for their semester, including those they haven't yet registered for in their previous semesters.
- Students will register for course credits 0 to 20 per semester. That is to say, students can register for courses of four credits and two credits during the semester.
- Students can only register for courses in the current semester and those courses that are not registered in previous semesters (not including those registered for the next semester).
- The student can view all his registered courses; he can also view his academic performance and the grade assigned both by the professor and by the administrator.
- Complaint submission is available where status has to be assigned, and it is retrievable later. The status is to be updated by the admin.
- When the student completes all the courses registered for a semester, it automatically prompts to the next semester.
- Change Password for Students and log-out.

### **3. Professor Functionality:**

- The prof shall be able to view and manage courses assigned to them. This includes updating the number of students allowed to enrol, room location, timings, syllabus etc.
- For the system a course shall assume that there is one prof for one course.
- The prof can view a list of students enrolled in any of their courses and assign grades only to enrolled students in courses taught by the prof.
- Prof can change the password and log out.

### **4. Administrator Functionality:**

- Add and remove courses from the catalog
- Administrators can assign professors to courses based on availability, and administrators can preview professor schedules before making an assignment.
- Administrators can view all student and individual student complaints submitted, alter the status of complaints (e.g. resolved), and update student records to change grades for all students enrolled in any course.
- Admins will be able to view all the courses they have been assigned, along with updating their passwords and log out.

## **Assignment 2 Assumptions**

### **1. Generic Feedback System:**

- A feedback system has been implemented wherein students can give feedback on courses.
- Feedback includes a numeric rating (1-5) and text-based comments.
- Professors can display student feedback anonymously so that students can give honest, constructive opinions on courses taught.

### **2. Teaching Assistant (TA) Role:**

- A new role, Teaching Assistant (TA), has been added, that inherits functionality from the Student class.
- At any one time, an administrator can assign one TA to one course; TAs can see which students have enrolled in the course assigned to them.

- TAs can see Feedback posted by students on the course assigned to them.
- TAs can grade or change grades assigned to students enrolled in course assigned to them. Hence, it provides additional support to the professor.

### **3. Error Handling:**

- Logging in with an unregistered email will result in a warning message indicating that the email is not registered.
- There is also a warning of invalid credentials when one has entered the wrong password.
- When students try to register for courses that exceed the 20-credit limit for the semester, there's a warning indicating that they cannot be registered because the credit limit has been reached.
- Students need to enter input of today's date to finish course drops. A warning prevents the drop from processing after the drop deadline set by the administrator has passed. Otherwise, students can drop only courses they are already registered for in a semester and not completed.