Educational Management System

Project Overview

The Educational Management System is a Python-based application designed to facilitate the management of educational tasks, such as student registration, course management, assignment submissions, and grading. This system comprises various classes to handle different user roles and their specific functionalities. The primary user roles include students and doctors (instructors).

GitHub Repository

[Educational Management System GitHub Repository](#)

System Features

For Students

- **Register in Course:** Allows students to enroll in available courses.
- **List My Courses:** Displays a list of courses the student is currently registered in.
- **View Course:** Provides detailed information about a specific course, including assignments.
- **Grades Report:** Shows the student's grades for all assignments in their registered courses.

For Doctors

- **List Courses:** Displays a list of courses the doctor is teaching.
- **Create Course:** Allows doctors to create new courses.
- **View Course:** Provides detailed information about a specific course, including the ability to manage assignments and student submissions.
- **Create Assignment:** Enables doctors to add new assignments to their courses.

Guide on How to Use the System

For Students

1. **Login or Signup:**

   - On startup, choose the option to log in or sign up.
   - If you are a new user, select the signup option and register as a student.
   - If you are a returning user, select the login option and enter your credentials.

2. **Register in a Course:**

   - From the main menu, select 'Register in course'.
   - You will be presented with a list of available courses. Enter the course number you wish to register for.
   - Example:

     ```
      Below are the courses available for you to register
     Please enter course number you wish to register:
     1) CS101
     2) CS102
     Enter course number: 1
     ```

3. **List My Courses:**

   - From the main menu, select 'List my courses' to view all the courses you are registered in.
   - Example:

     ```
      Here are the courses you are currently registered in:
     1) CS101
     ```

4. **View Course:**

   - From the main menu, select 'View course'.
   - Choose the course number to see detailed information, including assignments.
   - Example:

     ```
      Here are the courses you are currently registered in:
     1) CS101
     Enter course number: 1
     course CS101, code CS101, taught by Dr. Smith
     Course has 3 assignments
     1) Assignment 1: Not Submitted
     2) Assignment 2: Submitted
     3) Assignment 3: Not Submitted
     ```

5. **Grades Report:**

   - From the main menu, select 'Grades Report' to see your grades for all assignments in your registered courses.
   - Example:

   ```
   Course code CS101 - total submissions: 2 assignments - grade: 15/20 (till now)
   ```

For Doctors

1. **Login or Signup:**

   - On startup, choose the option to log in or sign up.
   - If you are a new user, select the signup option and register as a doctor.
   - If you are a returning user, select the login option and enter your credentials.

2. **List Courses:**

   - From the main menu, select 'List Courses'.
   - You will see a list of all the courses you are teaching.
   - Example:

   ```
   1) CS101
   2) CS102
   ```

3. **Create Course:**

   - From the main menu, select 'Create course'.
   - Enter the course name and code to create a new course.
   - Example:

   ```
   Please enter the name of the course: Data Structures
   Please enter the course code: CS201
   ```

4. **View Course:**

   - From the main menu, select 'View course'.
   - Choose the course number to see detailed information.
   - You can list, create, and manage assignments for the selected course.
   - Example:

   ```
   1) CS101
   2) CS102
   Enter course number: 1
   1) List Assignments
   2) Create Assignment
   3) View Assignment
   ```

5. **Create Assignment:**

   - In the 'View course' section, select 'Create Assignment'.
   - Enter the assignment title, description, and maximum grade to create a new assignment.
   - Example:

   ```
   Enter the course code of the new assignment: CS101
   Enter the title of the new assignment: Homework 1
   Enter the description of the new assignment: Solve problems 1-5
   Enter the maximum grade of the new assignment: 10
   ```