**PROGRAMMING IN PYTHON**

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**Project: University Management System**

**Description:** This console-based University Management System is a simple Python program that allows users to manage students, courses, and enrollments within a university. The system maintains dictionaries for students and courses, ensuring unique identification through student and course IDs. Users can add new students and courses, enroll students in courses, and display lists of students, courses, and current enrollments. The code provides a basic framework for handling university-related tasks through the console, offering a straightforward way to interact with and manage student-course relationships. The enrollment process includes checks for existing students and courses to avoid duplicate entries. Overall, it serves as a foundation for a more extensive console-based project for university management.

**FEATURES:**

**1. Student Management:**

* Ability to add students with unique IDs and names.
* Checks for duplicate student IDs to avoid redundancy.

**2. Course Management:**

* Capability to add courses with unique IDs and names.
* Checks for duplicate course IDs to prevent duplication.

**3. Enrollment System:**

* Functionality to enroll students in courses.
* Checks for the existence of both student and course before enrollment.
* Avoids duplicate enrollments for the same student and course.

**4. Display Functions:**

* Displaying a list of students with their IDs and names.
* Displaying a list of courses with their IDs and names.
* Displaying the current enrollments, showing student and course names.

**5. User Interaction:**

* Provides a text-based menu for users to interact with the system.
* Accepts user input to perform various operations.

**6. Input Validation:**

* Ensures proper handling of user input, preventing invalid choices.

**7. Edit Student/Course**

* Feature placeholder for future development.
* Intends to allow users to modify student and course information.

**8. Delete Student/Course**

* Placeholder for a deletion feature.
* Aims to enable users to remove student and course records from the system.

**9. Exit Option:**

* Allows users to exit the system gracefully.