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Business Requirements – Course Management System

1. User Registration and Management

The system must allow new users (students and instructors) to register, update their personal information, and manage account credentials.

2. Role-Based Access

The system must differentiate between instructors and students, granting appropriate permissions based on user roles.

3. Course Creation and Management

Instructors must be able to create, edit, and hide courses. Each course must belong to a specific category (e.g., Programming, Databases, Software Engineering).

4. Exam and Assessment Management

Instructors must be able to create exams for their courses and assign them to enrolled students.

5. Course Enrollment

Students must be able to view available courses and enroll in them based on semester and academic year.

6. Student Performance Tracking

The system must allow tracking of student performance through grades, exam results, and final assessments.

7. Data Reporting and Analytics

The system must provide insights such as:

- Course with the highest student enrollment
- Courses not assigned to the current semester
- Top-performing students per course and year

8. Communication Tools

The system may include features such as chat or announcements to support interaction between instructors and students.

9. Secure Data Management

All data (courses, users, grades) must be securely stored and accessible only to authorized users based on their roles.

10. Retrieve all messages between a student and instructor

11. Announcement post (directly after insering assessment)

