

Pegasus consulting

Assignment for full stack (Django) developer role

Project Title: Mini LMS Platform for Teachers and Students

Objective:

Develop a simplified Learning Management System (LMS) using Django, where teachers can manage courses and quizzes (MCQs), generate reports, and students can participate in quizzes and view their results.

Project Requirements:

1. Authentication and Roles:

- Implement Django's built-in authentication system.
- Define two roles:
 - **Teacher:** Can create and manage courses and quizzes, assign marks, and generate reports.
 - **Student:** Can view courses, participate in quizzes, and view marks.

2. Teacher Functionality:

- **Course Management:** Teachers can create courses and add quizzes (MCQs) to those courses.
- **Quiz Creation:** Teachers can create simple MCQ-based quizzes.
- **Marking and Reports:** After students submit answers, teachers can assign marks and generate a simple report of student performance.

3. Student Functionality:

- **Quiz Participation:** Students can view courses they are enrolled in, take quizzes (MCQs), and submit their answers.
- **View Marks:** Students can view their marks and feedback after quiz submission.

4. Third-Party API Integration:

- Integrate any free educational API (e.g., Quiz API or random trivia API).
- Fetch quiz questions from the API and include them in a course for students to answer.

5. Presentation Layer:

- Use Django templates to create basic but clear dashboards for both Teacher and Student users.
- Ensure the platform is mobile-friendly and simple to navigate.

Assessment Criteria:

- Correct implementation of authentication and role-based access.
- Integration of third-party API for quiz questions.
- Clear and functional user interface.
- Code clarity and proper documentation.