

# FS SWE Technical Test - Backend

At Pearson, we operate numerous learning management systems, and we invite the applicants to develop a compact application focused on course management. The application should encompass a fundamental front-end and an API. Specifically, we expect the front-end to be built using React (applicants are encouraged to use any preferred framework and styling system), while the API should be implemented with either Java/Kotlin/Node.js/PHP/Python. Applicants are free to choose any suitable framework for the technical test to facilitate the API implementation.

While a frontend solution is required for this assessment, the primary emphasis lies on the backend aspect of the assessment.

**Important: The candidate should develop the solution within a maximum of 4 hours. After the initial solution is completed, there will be a discussion with two engineers from the team to discuss the solution and propose further improvements, architecture, etc.**

## **Task:**

Develop an administrative panel within the Learning Management System (LMS) to empower teachers in course management. The teacher should have the capability to generate new courses, specifying details like course name, description, and schedule. Include features for editing and deleting courses. Enable teachers to register new students into their respective courses.

## **Submission Instructions:**

- Share the GitHub/bitbucket repository containing the code for both the frontend and backend.
- Include a README file with instructions on how to run the applications locally.
- The submission should include as many tests as desired
- The application can be designed as wanted
- Provide any additional notes or explanations for your implementation choices.