

# LMS's lectures API

This is a tiny API for loading/retrieving lectures to/from a small learning management system. If there is anything unclear, reach out to us through email.

## Features

- As a developer I want to store all data in a relational database,
- As an admin I want to have an API endpoint to batch load the seed data into a database,
- As a user I want to have an API endpoint for retrieving all lectures with the ability to paginate the results,
- As a user I want to have an API endpoint for querying lectures by tags and author's name,
- As a user I want to have an API endpoint for retrieving top 10 highest rated lectures,
- As a user I want to have a "feeling lucky" API endpoint for retrieving a random lecture, but I don't want to see the same lecture twice in a row,
- As a content provider I don't want users to see my lectures if they've been rated lower than a system-wide average,
- As a code reviewer I want to have an easy way of spinning up the project and running test requests against the provided API endpoints.

## Seed data

In `data.json` file you can find some pre-generated lectures in `JSON` format that you should use for determining the structure of your ORM models / SQL tables and for seeding the database.

## Additional information

- You can use any additional tools and libraries which you find helpful in finishing the task. It would be great if you used Flask with SQLAlchemy and PostgreSQL,
- Keep track of your work using private repository in your Github account with us added as collaborators,
- We are looking for the solution which is clean and easy to read without additional comments and explanations besides the source code. Despite small scope of the features, show us how would you organise whole project to keep it easy to extend, test and maintain in a long term,
- If you are running out of time feel free to cut some of the features. In such case, provide some written note explaining why you decided to remove that feature and how would you implement it if given more time,
- We don't put a strict deadline on this test assignment. We know that everybody has their own set of responsibilities and we don't want to favour candidates with more free time. Let us know when you can start working and send regular updates about ongoing progress or any delays.