Coding guidelines

Write the code as you would write it in a customer project. This means:

- Name variables well
- Observe naming conventions (e.g. no camelCase in Python)
- Regular commits, meaningful commit messages
- You are welcome to comment on the code

Task

Task 1 - Python Programming

🕐3 hours

Create a Python backend application with Flask. The goal is that an employee can store all his certifications in a small web app.

For this we need:

- A backend - here we use Python Flask
- a database

Requirements

- Under the route "/" should be a simple start page (e.g. Hello, enter your certifications here!
- There is an input field in which you can enter cloud certifications. For example:
  - Certified Kubernetes Adminstrator
  - Azure DevOps Engineer (AZ-400)
  - ...
- Below is a list of all cloud certifications stored in the database.
- You can use any database, a SQLite is suitable for easy startup.
- Write unit tests for the different routes
- It's enough if the app runs on-premises, you don't have to deploy it to AWS / Azure.
- Optionally, you can also use a nice frontend and expand the app as you please.

Task 2 – Container

🕑2 hours

Now use Docker to run the application!

- Erstelle dafür ein `Dockerfile`, das die Applikation in einem Container verpackt.
- Nutze `docker-compose`, um eine Datenbank zusammen mit der Applikation zu starten.