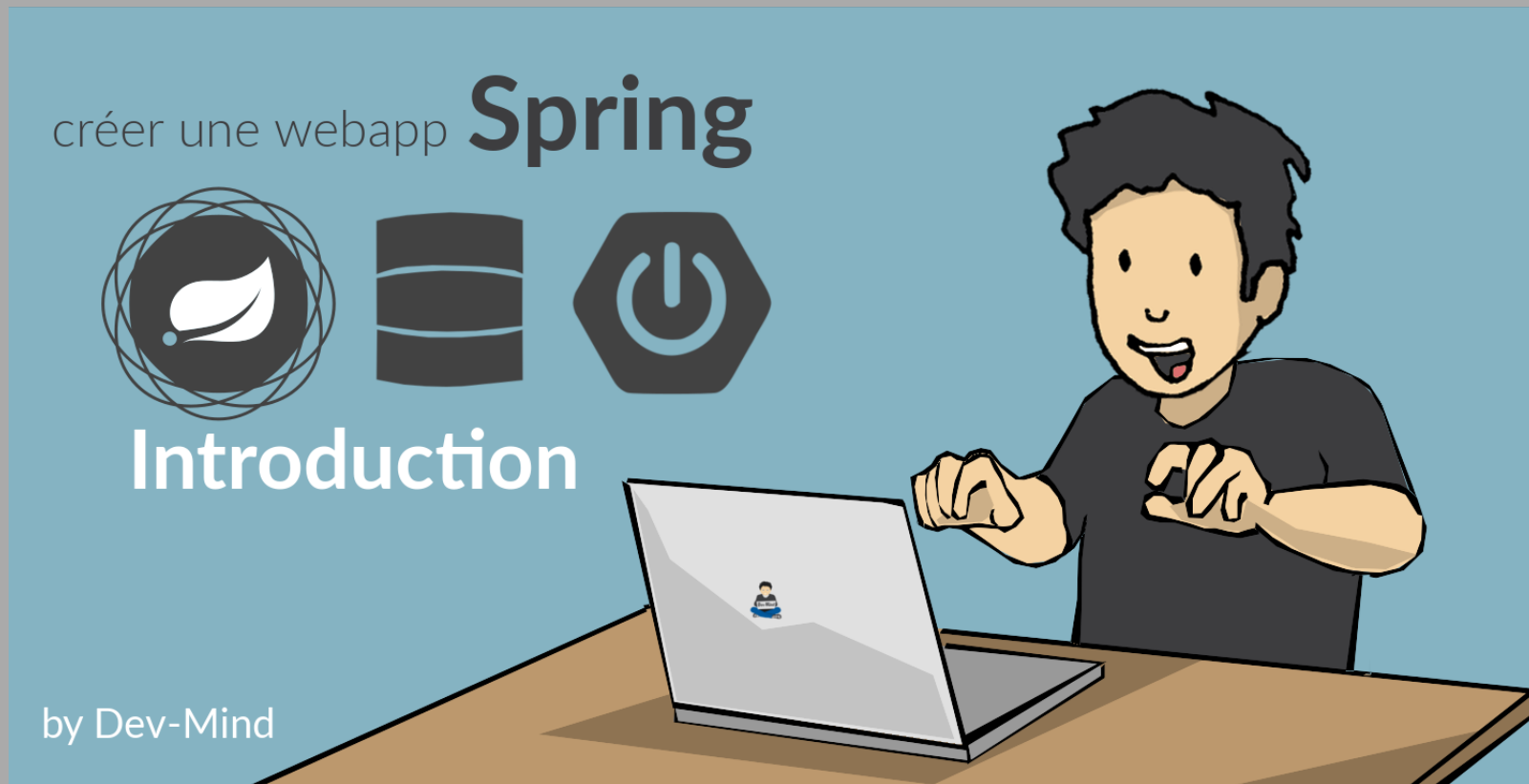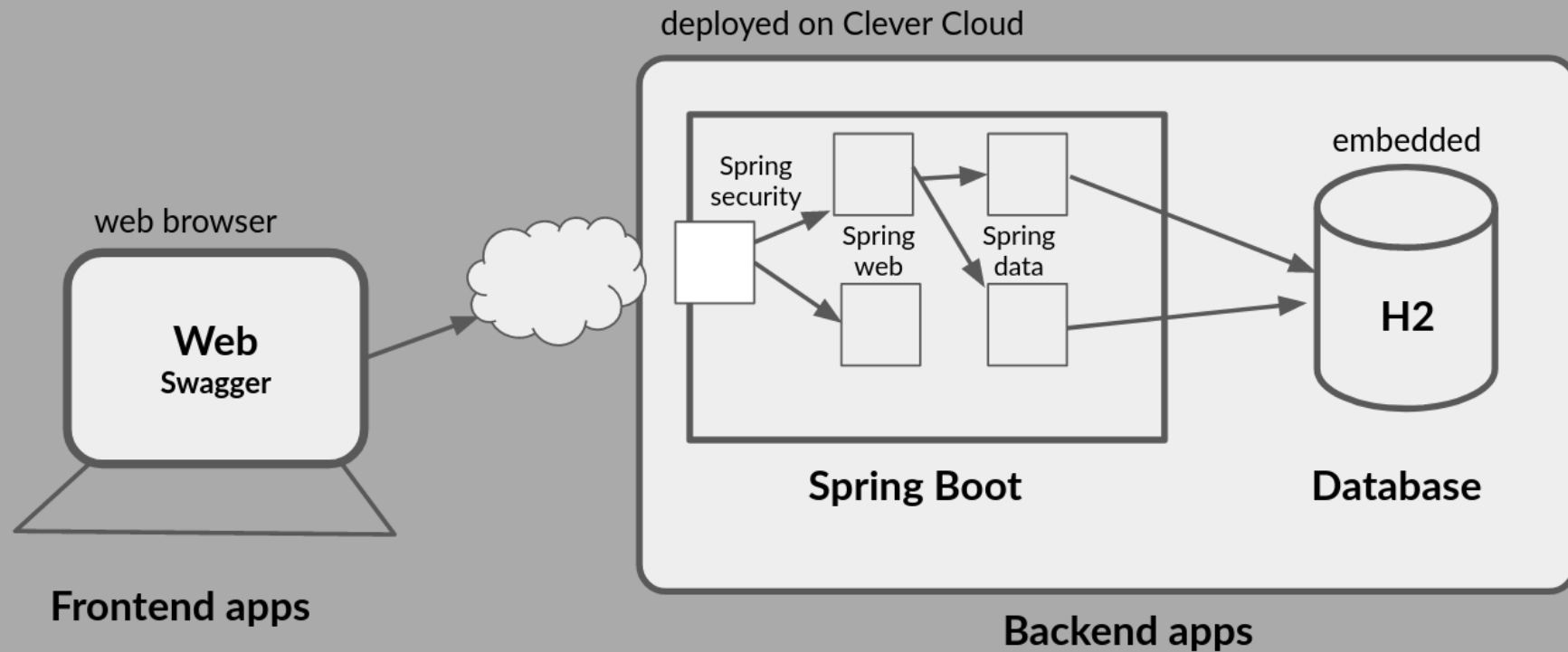# Web programming

2022 Dev-Mind

# Introduction

This document explains the different things expected to evaluate your work during the lectures and practical work

# Architecture

You must create a Java application backend deployed on a cloud service Clever Cloud with an embedded database.

# Architecture

You should add Swagger to expose your REST API and the application must be secured with Spring Security.

Your code must be tested with unit tests, readable and available on a Github repository. You can set up a private repository, but you must add my profile as team member (my pseudo is javamind)

# Evaluation

1. a project available on Github (your code will be analyzed) with a readme to explain what you did

2. a secured app with Spring Security

3. a swagger API to test your app

4. the build must be OK

5. a good source code coverage by tests

6. minimal feature scope must be implemented

7. code must be readable

# Features

You can implement

- subject given during courses (an application which is able to manage room sensors in a building). So your app have to manage building, rooms, windows and heaters.

- your own project but you need to manage at least four related entities.

# Evaluation grid

1. Features

2. Code quality

3. JPA

4. Web

5. Security

6. Tests

7. Clever cloud

You will have penalty points if the project is late

# Project due date

You must submit your project by **November 15**. You can send me an email with the address to your Github repo and the address to the application deployed on Clever Cloud