# LaunchCode Liftoff Final Project

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- Overview and project goals
- Project Features
- ▶ Technologies used
- Code metrics
- ▶ Live demo
- ▶ Conclusions

AGENDA

#### Overview:

- Web site for small to medium schools for the administration and control of evaluation plans and student grading.
- This web application allows teachers to entry, save, modify and review the evaluation schedules for their assigned subjects and to grade the students according to the evaluation plans.
- Students are able to see their grades using this web app.
- A special user, the registrar, is able to entry data about hired teachers and to make the enrollment of students.

#### ▶ Goals:

The main goal for the development of this web application was to gain new knowledge about several technologies and plunge deeper in the Spring Boot framework.

# Overview and project goals

- There are (3) different kinds of users: students, teachers and registrars.
- There is a user registration to the web site (except for registrars who are registered by the web app administrator).
- Data visualization for students.
- > Data entry and visualization for teachers and registrars.
- ► It's a basic CRUD web application with a thin layer of business rules hard coded in the app itself.

# Project features

- ▶ Java
- Spring Boot, Thymeleaf and JPA
- > HTML, CSS, Bootstrap
- MySQL
- JavaScript
- ► IntelliJ IDEA
- VSCode
- MySQL Workbench
- > Git, GitHub, Stack Overflow, W3Schools, Baeldung and 100 more...

# Technologies used

- ▶ (6) packages
- ▶ (48) classes
- ▶ (1666) lines of Java code and about (500) lines of JavaScript
- ▶ (4) Web and (1) Rest controller classes.
- ▶ Using the CODEMR plugin for IntelliJ

### Code metrics

#### Analysis of gradeit

**General Information** 

Total lines of code: 1666

Number of classes: 48

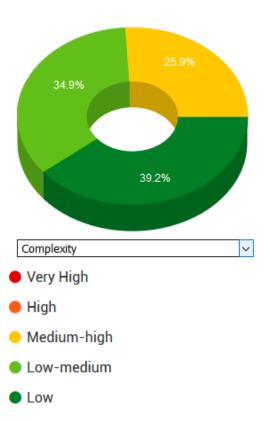
Number of packages: 6

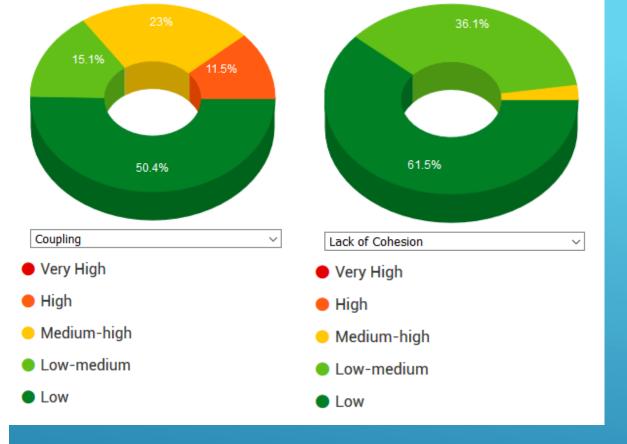
Number of external packages: 14

Number of external classes: 38

Number of problematic classes: 1

Number of highly problematic classes: 0





### CODEMR metrics

- This project took about 120 hours of development, of which probably 80% of the time was dedicated to conceptualization and learning. The rest of time was spent for coding, testing and debugging.
- From the prospective of learning, I ended with a better understanding of the Spring Framework, JPA and Thymeleaf; I learned a new language (JavaScript) and I got my hands dirty with things like DOM, RESTful API development.
- I'm very pleased to say that the main goal was fully accomplished and I finished more confident about what I would be able to achieve in the future.

### Conclusions