Code review: TP1

# Summary

An intern at your company has just wrapped up a project to create a password strength calculator. The tool works, but there's a catch—the code is a mess. It’s poorly structured, lacks comments, and doesn’t follow best practices. Now, it’s up to you to take this rough draft and turn it into a professional, industry-ready and open-source application. However, we didn’t want our competitor to use it for business purpose.

**Your Mission**: Your task is to step into the shoes of a software engineer and industrialize the intern’s code. This means transforming it from a basic, functional prototype into a polished, maintainable, and scalable piece of software.

# Deliverables expected

A Github repository containing the intern code with the following elements:

* Maven/Gradle/Ant project
* README.md with a summary of the project and basic usage of the library.
* Code:
  + License chosen.
  + Comment the code using Javadoc.
  + Apply a code style policy (ex: Checkstyle).
  + Fix bugs if necessary.
* SCM:
  + Github project.
  + Security.md.
  + Issues Templates.
  + Pull request template.
  + Protected Branches policies.
  + Define pull request policy (approval etc…)
* Tests:
  + Units Tests implementation with proper test plan.
  + “Performance test” on “ComputeMD5” method
* CI/CD:
  + Foreach pull requests:
    - Checkstyle
    - Unit Tests passed.
    - Cobertura reach 90%.
    - Performance Tests passed.
    - SAST run successfully without default (Ex: Semgrep).
  + Foreach main modification:
    - Build and Deploy version in Github Maven registry.
    - Deploy documentation using GH-Pages with URL (blah.com/javadoc/<version>)
    - Deploy Cobertura report with GH-Pages with URL (blah.com/cobertura/<version>)