Detailed Class Diagram

02242: Assignment 03

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Description

Your employer is very impressed by the tool you have created so far but would like to have it more polished, and also include a diagram from programs where the source code is "lost".

Create **Detailed Class Diagram** which is a class diagram like the previous assignment, but also include information about fields and methods. Try to be as polished as possible. For a full specification check out wikipedia.

In this assignment, should analyse directly on the `bytecode` of the java language. We recommend using `jvm2json`, as it will also be used in future assignments. You can either install it locally or use a docker container (see the readme). Consult he CODEC.txt file to figure out the problem.

Deliverable

A single slide in the slide deck containing:

- ☐ a link to your source code;
- ☐ a detailed class diagram over a (self-choiced) real repository, this can be a previous project or just one on github; and
- ☐ the answers to the following questions
    - ☐ which language did you use?
    - ☐ what guarantees can you give your users?
    - ☐ what are you most proud of?

☐ what did you learn over the last three assignments?

Hints

- Jar files are really just `zip` files, unpack them with `gunzip` or use a zip library.

- In most programming languages you can call subprograms.

    - Java <u>Process API</u>
    - Python <u>subprocess</u>

- And read and write json:

    - Java <u>json-simple</u>
    - Python <u>json</u>

- Again you can use <u>Graphviz</u> to visualize your `UML` diagram, especially take inspiration from <u>this demo</u>. Alternatively, you can use <u>umlet</u> or <u>Mermaid Js</u>