Project: Image thumbnailing system

Goal: Write a Flask application that provides an API that read uploaded images, extract its metadata, thumbnails them and make the thumbnail images available for consumption by the user.

What to send: a zip archive containing all project files (sources, repository, documentation, tests)

When: **31st january** !!

benoit.larroque@sio.ecp.fr

Project: Image thumbnailing system (Advices)

Use Pillow to handle images

Use a git repository for sources

Use a requirements.txt file to specify dependencies **and their versions**

Possible API:

`POST  /images` upload a new image, responds an image ID
`GET      /images/<id>` describe image processing state (pending, success, failure) metadata and links to thumbnail
`GET      /thumbnails/<id>.jpg` a way to read the generated thumbnail

Possibly use a (redis celery) queue to create the thumbnails asynchronously

Check warnings with Pylint/flake8, reformat the code with black & isort

Check code coverage with pytest-cov

Project: Image thumbnailing system (Evaluation)

Roughly in order of preference:

- Project Completion: Is this a complete & working project
- Testing: Is the code correctly tested
- Documentation: Readme & installation procedure, code comments
- Macro-architecture: API contract, code organization,...
- Version control: How structured are the commits (also are the commit messages any useful)
- Micro-architecture: How pythonic is the code, warnings...