

Academy 2024h1

Mini-project week 3:

Initial considerations:

1. Document your results with screenshots. You do not need to show all the mistakes you made in the process, but you can save them and share them on the day of the presentation.
2. You should submit a pdf file with the evidence and with the format `<globant user>-MiniProject-<week>`, for example: `juan.quinayas-MiniProject-3.pdf`.

Repository:

Use git as local repository and Gitea as remote repository. Remember that you already mounted Gitea in a docker container in mini-project-2.

Application:

Use python to create an API.

1. How to make the API?
 - You can use flask, FastAPI, django or whatever you want.
2. What should the API do?
 - Generate a name
 - Read the generated names
 - Update a name
 - Delete a name
 - Calculate the sin of a number
 - Calculate the cos of a number
 - Generate a random number
3. Use the following libraries/tools:
 - black
 - pylint (required for the unit tests of the following part)
 - isort
 - flake8 (optional)

CI/CD pipeline:

1. Use docker to deploy Jenkins.
2. Use Jenkins to deploy create a pipeline that deploys the Python application.
3. One of the stages must run unit tests (pylint).
4. Bonus: use a Jenkins file