

Intensificación Técnico Organizativa

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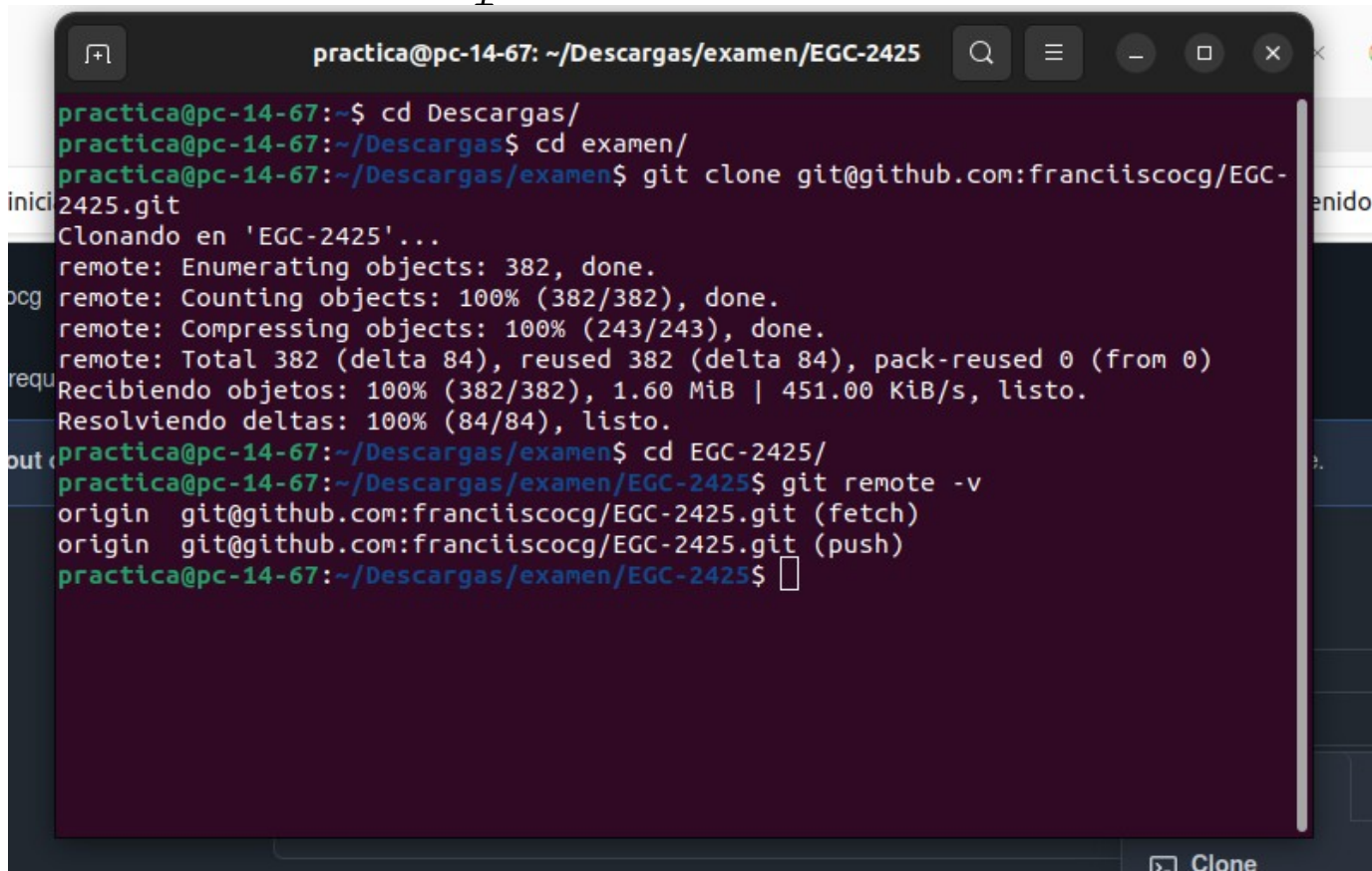
UVUS:fracapgar1

Enlace al repositorio de GitHub:

<https://github.com/franciiscocg/EGC-2425/tree/main>

Ejercicio Git

Apartado 1



```
practica@pc-14-67: ~/Descargas/examen/EGC-2425
practica@pc-14-67:~$ cd Descargas/
practica@pc-14-67:~/Descargas$ cd examen/
practica@pc-14-67:~/Descargas/examen$ git clone git@github.com:franciiscocg/EGC-2425.git
Clonando en 'EGC-2425'...
remote: Enumerating objects: 382, done.
remote: Counting objects: 100% (382/382), done.
remote: Compressing objects: 100% (243/243), done.
remote: Total 382 (delta 84), reused 382 (delta 84), pack-reused 0 (from 0)
Recibiendo objetos: 100% (382/382), 1.60 MiB | 451.00 KiB/s, listo.
Resolviendo deltas: 100% (84/84), listo.
practica@pc-14-67:~/Descargas/examen$ cd EGC-2425/
practica@pc-14-67:~/Descargas/examen/EGC-2425$ git remote -v
origin  git@github.com:franciiscocg/EGC-2425.git (fetch)
origin  git@github.com:franciiscocg/EGC-2425.git (push)
practica@pc-14-67:~/Descargas/examen/EGC-2425$
```

Ejercicio Git

Apartado 2

The screenshot displays a development environment with a terminal window on the left and a web browser on the right.

Terminal Window:

```
clear:log      Clears the 'app.log' file.
clear:uploads  Clears the 'uploads' directory.
compose:env    Combines .env files from blueprints with the root .env,...
coverage       Runs pytest coverage on the blueprints directory or a...
db:console     Opens a MariaDB console with credentials from .env.
db:migrate     Generates and applies database migrations.
db:reset       Resets the database, optionally clears migrations and...
db:seed        Populates the database with the seeders defined in each...
env            Displays the current .env file values.
info          Displays information about the Rosemary CLI.
linter         Runs flake8 linter on the 'app' and 'rosemary' directories.
locust         Launches Locust for load testing based on the environment.
locust:stop    Stops the locust container if it is running.
make:module    Creates a new module with a given name.
module:list    Lists all modules and those ignored by .moduleignore.
route:list     Lists all routes of the Flask application.
selenium       Executes Selenium tests based on the environment.
test          Runs pytest on the blueprints directory or a specific...
update        This command updates all packages based on the...
zip            Generates a zip file named egc-xuvus> entrega.zip...

(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ flask db upgrade
INFO [alembic.runtime.migration] Context impl MySQLImpl.
INFO [alembic.runtime.migration] Will assume non-transactional DDL.
INFO [alembic.runtime.migration] Running upgrade -> 001, first migration
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ rosemary db:seed
Seeding data for all modules...
AuthSeeder performed.
DataSetSeeder performed.
FeatureModelSeeder performed.
FlanpySeeder performed.
WebhookSeeder performed.
HubFileSeeder performed.
Database populated with test data.
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ flask run --host=0.0.0.0 --reload --debug
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI
server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5000
* Running on http://10.1.14.67:5000
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 319-790-640
[2025-01-10 16:25:34.322] INFO in routes: Access Index
2025-01-10 16:25:34.322 - app.modules - INFO - Access Index
127.0.0.1 - - [10/Jan/2025 16:25:34] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [10/Jan/2025 16:25:34] "GET /static/css/app.css HTTP/1.1" 200 -
127.0.0.1 - - [10/Jan/2025 16:25:34] "GET /static/css/dropzone.css HTTP/1.1" 200 -
127.0.0.1 - - [10/Jan/2025 16:25:34] "GET /static/css/own.css HTTP/1.1" 200 -
127.0.0.1 - - [10/Jan/2025 16:25:34] "GET /static/js/app.js HTTP/1.1" 200 -
127.0.0.1 - - [10/Jan/2025 16:25:34] "GET /public/scripts.js HTTP/1.1" 200 -
127.0.0.1 - - [10/Jan/2025 16:25:34] "GET /static/img/logos/logo-dark.svg HTTP/1.1" 200 -
127.0.0.1 - - [10/Jan/2025 16:25:34] "GET /static/img/icons/icon-250x250.png HTTP/1.1" 200 -
```

Web Browser Window:

The browser shows the UvLHUB.IO website. A notification at the top states: "Parece que no ha iniciado Firefox desde hace tiempo. ¿Quiere limpiarlo para comenzar una experiencia renovada? ¡A propósito, bienvenido de nuevo! Reiniciar Firefox...". The main content area displays "Latest datasets" with three entries:

- Sample dataset 4**: January 10, 2025 at 03:25 PM. Description for dataset 4. Author 4 (Affiliation 4) (0000-0000-0000-0003). URL: <http://localhost:5000/doi/10.1234/dataset4>. Tags: tag1, tag2. Buttons: View dataset, Download (1.21 KB).
- Sample dataset 3**: January 10, 2025 at 03:25 PM. Description for dataset 3. Author 3 (Affiliation 3) (0000-0000-0000-0002). URL: <http://localhost:5000/doi/10.1234/dataset3>. Tags: tag1, tag2. Buttons: View dataset, Download (1.21 KB).
- Sample dataset 2**: January 10, 2025 at 03:25 PM.

Ejercicio Git

Apartado 3

```
practica@pc-14-67: ~/Descargas/examen/EGC-2425
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ git switch feature/init-bug
rama 'feature/init-bug' configurada para rastrear 'origin/feature/init-bug'.
cambiado a nueva rama 'feature/init-bug'
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ flask run --port=5001 --host=0.0.0.0 --reload --debug
Traceback (most recent call last):
  File "/home/practica/Descargas/examen/EGC-2425/venv/bin/flask", line 8, in <module>
    sys.exit(main())
    ~~~~~
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/flask/cli.py", line 1105, in main
    cli.main()
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/click/core.py", line 1078, in main
    rv = self.invoke(ctx)
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/click/core.py", line 1688, in invoke
    return _process_result(sub_ctx.command.invoke(sub_ctx))
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/click/core.py", line 1434, in invoke
    return ctx.invoke(self.callback, **ctx.params)
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/click/core.py", line 783, in invoke
    return __callback(*args, **kwargs)
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/click/decorators.py", line 92, in new_func
    return ctx.invoke(f, obj, *args, **kwargs)
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/click/core.py", line 783, in invoke
    return __callback(*args, **kwargs)
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/flask/cli.py", line 937, in run_command
    raise e from None
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/flask/cli.py", line 937, in run_command
    app: WSGIApplication = info.load_app()
    ~~~~~
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/flask/cli.py", line 339, in load_app
    app = locate_app(import_name, None, raise_if_not_found=False)
  File "/home/practica/Descargas/examen/EGC-2425/venv/lib/python3.12/site-packages/flask/cli.py", line 245, in locate_app
    __import__(module_name)
  File "/home/practica/Descargas/examen/EGC-2425/app/__init__.py", line 70, in <module>
    app = create_app()
    ~~~~~
NameError: name 'create_app' is not defined
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$
```

Ejercicio Git

Apartado 5

Me equivoque y no
añadí la issue id la
cual correspondía con
#1 con un
git commit --amend -m
“arreglado” se podría
haber solucionado

```
venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git branch fix/app-init
venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git add app/__init__.py
venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git commit -m "Fix [issue-id]: modify app/__init__.py that works"
[fix/app-init 3f03f17] Fix [issue-id]: modify app/__init__.py that works
1 file changed, 1 insertion(+), 2 deletions(-)
venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git push
fatal: La rama actual fix/app-init no tiene una rama upstream.
Para empujar la rama actual y configurar el remoto como upstream, usa

    git push --set-upstream origin fix/app-init

Para hacer que esto pase automáticamente para las ramas que no rastrean
un upstream, mira 'push.autoSetupRemote' en 'git help config'.

venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ ^C
venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git push --set-upstream origin fix/app-init
Enumerando objetos: 7, listo.
Contando objetos: 100% (7/7), listo.
Compresión delta usando hasta 20 hilos
Comprimiendo objetos: 100% (4/4), listo.
Escribiendo objetos: 100% (4/4), 497 bytes | 497.00 KiB/s, listo.
Total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
Remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
Remote:
Remote: Create a pull request for 'fix/app-init' on GitHub by visiting:
Remote:   https://github.com/franciiscocg/EGC-2425/pull/new/fix/app-init
Remote:
To github.com:franciiscocg/EGC-2425.git
 * [new branch]      fix/app-init -> fix/app-init
Rama 'fix/app-init' configurada para rastrear 'origin/fix/app-init'.
venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$
```

Ejercicio Git

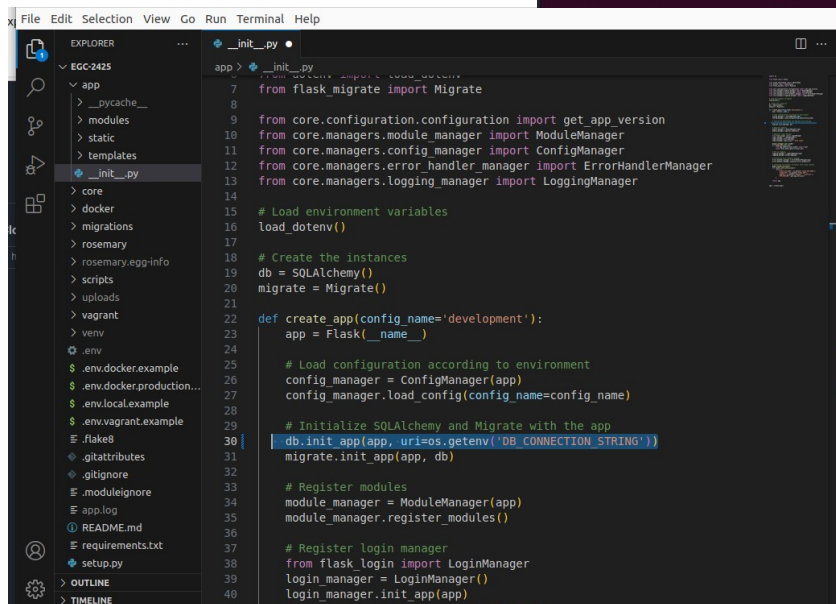
Apartado 7

```
total 4 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
emote: Resolving deltas: 100% (2/2), completed with 2 local objects.
emote:
emote: Create a pull request for 'fix/app-init' on GitHub by visiting:
emote:   https://github.com/franciiscocg/EGC-2425/pull/new/fix/app-init
emote:
o github.com:franciiscocg/EGC-2425.git
* [new branch]    fix/app-init -> fix/app-init
ama 'fix/app-init' configurada para rastrear 'origin/fix/app-init'.
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ flask run --port=5001 --host=0.0.0.0 --reload --debug
* Debug mode: on
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on all addresses (0.0.0.0)
* Running on http://127.0.0.1:5001
* Running on http://10.1.14.67:5001
Press CTRL+C to quit
* Restarting with stat
* Debugger is active!
* Debugger PIN: 319-790-640
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ git branch feature/conflicto
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ git status
En la rama fix/app-init
La rama está actualizada con 'origin/fix/app-init'.

nada para hacer commit, el árbol de trabajo está limpio
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ git branch
feature/conflicto
feature/init-bug
* fix/app-init
main
origin
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$
```

```
nada para hacer commit, el árbol de trabajo está limpio
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ git branch
feature/conflicto
feature/init-bug
* fix/app-init
main
origin
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ git switch feature/conflicto
M      app/__init__.py
Cambiado a rama 'feature/conflicto'
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ git commit -m "Feature: modify app/__init__.py"
En la rama feature/conflicto
Cambios no rastreados para el commit:
  (usa "git add <archivo>..." para actualizar lo que será confirmado)
  (usa "git restore <archivo>..." para descartar los cambios en el directorio de trabajo)
modificados:   app/__init__.py

sin cambios agregados al commit (usa "git add" y/o "git commit -a")
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ git add app/__init__.py
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$ git commit -m "Feature: modify app/__init__.py"
[feature/conflicto 9a709bd] Feature: modify app/__init__.py
1 file changed, 1 insertion(+), 1 deletion(-)
(venv) practica@pc-14-67: ~/Descargas/examen/EGC-2425$
```



```
__init__.py
7
8 from flask import Flask, jsonify
9 from flask_migrate import Migrate
10
11 from core.configuration.configuration import get_app_version
12 from core.managers.module_manager import ModuleManager
13 from core.managers.config_manager import ConfigManager
14 from core.managers.error_handler_manager import ErrorHandlerManager
15 from core.managers.logging_manager import LoggingManager
16
17 # Load environment variables
18 load_dotenv()
19
20 # Create the instances
21 db = SQLAlchemy()
22 migrate = Migrate()
23
24 def create_app(config_name='development'):
25     app = Flask(__name__)
26
27     # Load configuration according to environment
28     config_manager = ConfigManager(app)
29     config_manager.load_config(config_name=config_name)
30
31     # Initialize SQLAlchemy and Migrate with the app
32     db.init_app(app, uri=os.getenv('DB_CONNECTION_STRING'))
33     migrate.init_app(app, db)
34
35     # Register modules
36     module_manager = ModuleManager(app)
37     module_manager.register_modules()
38
39     # Register login manager
40     from flask_login import LoginManager
41     login_manager = LoginManager()
42     login_manager.init_app(app)
```


Ejercicio Git

Apartado 7

```
M      app/__init__.py
Cambiado a rama 'feature/conflicto'
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git commit -m "Feature: modify app/__init__.py"
En la rama feature/conflicto
Cambios no rastreados para el commit:
  (usa "git add <archivo>..." para actualizar lo que será confirmado)
  (usa "git restore <archivo>..." para descartar los cambios en el directorio de trabajo)
      modificados:   app/__init__.py

sin cambios agregados al commit (usa "git add" y/o "git commit -a")
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git add app/__init__.py
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git commit -m "Feature: modify app/__init__.py"
[feature/conflicto 9a709bd] Feature: modify app/__init__.py
 1 file changed, 1 insertion(+), 1 deletion(-)
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git switch fix/
fix/app-init      fix/bug-atomic
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git switch fix/app-init
Cambiado a rama 'fix/app-init'
Tu rama está actualizada con 'origin/fix/app-init'.
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git add app/__init__.py
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git commit -m "Feature: modify app/__init__.py"
[fix/app-init db9c632] Feature: modify app/__init__.py
 1 file changed, 1 insertion(+), 1 deletion(-)
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$
```

```
Fusión automática falló; arregle los conflictos y luego realice un commit con el resultado.
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git add app/__init__.py
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git commit -m "Conflict: resolve app/__init__.py"
[fix/app-init e4b41bc] Conflict: resolve app/__init__.py
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git merge feature/conflicto
Ya está actualizado.
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git push
Enumerando objetos: 15, listo.
Contando objetos: 100% (15/15), listo.
Compresión delta usando hasta 20 hilos
Comprimiendo objetos: 100% (12/12), listo.
Escribiendo objetos: 100% (12/12), 1.30 KiB | 664.00 KiB/s, listo.
Total 12 (delta 7), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (7/7), completed with 2 local objects.
To github.com:franciiscocg/EGC-2425.git
   3f03f17..e4b41bc  fix/app-init -> fix/app-init
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$
```

```
[fix/app-init db9c632] Feature: modify app/__init__.py
 1 file changed, 1 insertion(+), 1 deletion(-)
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git merge feature/conflicto
Auto-fusionando app/__init__.py
CONFLICTO (contenido): Conflicto de fusión en app/__init__.py
Fusión automática falló; arregle los conflictos y luego realice un commit con el resultado.
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$
```

Ejercicio Git

Apartado 8

```
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git switch hotfix/bug-critical
rama 'hotfix/bug-critical' configurada para rastrear 'origin/hotfix/bug-critical'.
Cambiado a nueva rama 'hotfix/bug-critical'
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git branch
  feature/conflicto
  feature/init-bug
  fix/app-init
* hotfix/bug-critical
  main
  origin
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git log
commit 678e7dc6853fb1e1b1b64c5116e6b44e4a5054ab (HEAD -> hotfix/bug-critical, origin/hotfix/bug-critical)
Author: Belen Ramos <brgutierrez@us.es>
Date:   Wed Jan 8 09:29:03 2025 +0100

    Fix the bug in the view_dataset card by uncommenting the card section, restoring the dataset view functionality

commit 7260a34ef4f445bc39c57aad9b8aecb4de15fd39 (origin/main, origin/HEAD, origin, main)
Author: Belen Ramos <brgutierrez@us.es>
Date:   Wed Jan 8 09:17:58 2025 +0100

    Introduce a bug in the view_dataset card for the exam by commenting out the card section to simulate an error

commit 546eea4205ef86c27030f720ac6521d7495c3452
Author: Belen Ramos <brgutierrez@us.es>
Date:   Wed Jan 8 09:16:01 2025 +0100

    Initialise base project
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$
```


Ejercicio Git

Apartado 9

```
origin
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git log
commit 678e7dc6853fb1e1b1b64c5116e6b44e4a5054ab (HEAD -> hotfix/bug-critical, origin/hotfix/bug-critical)
Author: Belen Ramos <brgutierrez@us.es>
Date:   Wed Jan 8 09:29:03 2025 +0100

    Fix the bug in the view_dataset card by uncommenting the card section, restoring the dataset view
    functionality

commit 7260a34ef4f445bc39c57aad9b8aecb4de15fd39 (origin/main, origin/HEAD, origin/main)
Author: Belen Ramos <brgutierrez@us.es>
Date:   Wed Jan 8 09:17:58 2025 +0100

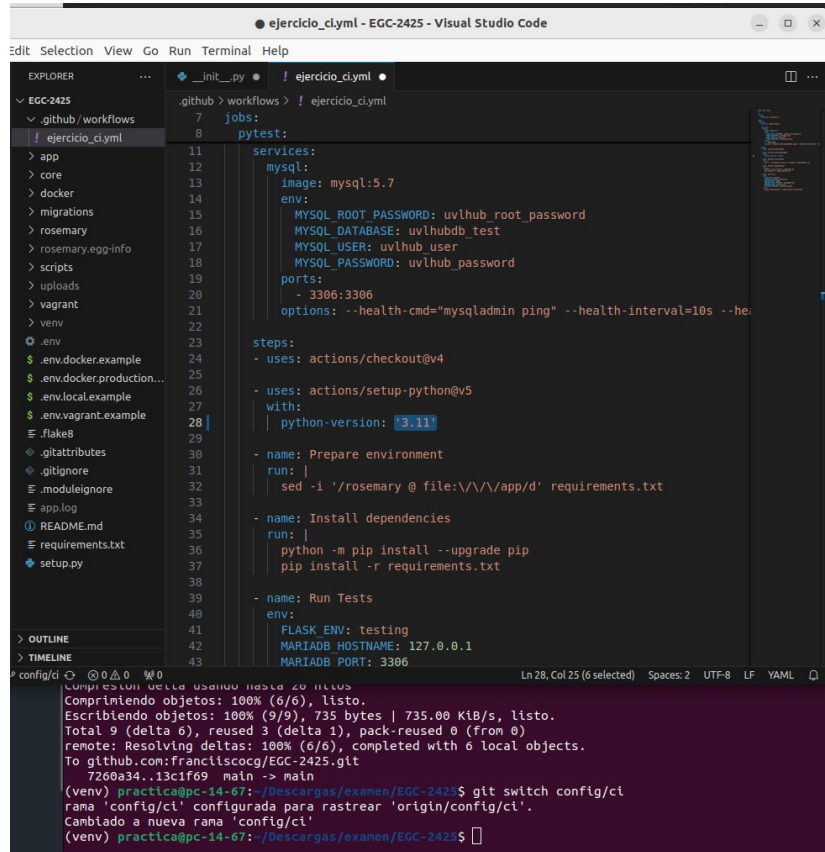
    Introduce a bug in the view_dataset card for the exam by commenting out the card section to simul
    ate an error

commit 546eea4205ef86c27030f720ac6521d7495c3452
Author: Belen Ramos <brgutierrez@us.es>
Date:   Wed Jan 8 09:16:01 2025 +0100

    Initialise base project
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git switch main
Cambiado a rama 'main'
Tu rama está actualizada con 'origin/main'.
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git cherry-pick 678e7dc6853fb1e1b1b64c5116e6b44
e4a5054ab
[main 13c1f69] Fix the bug in the view_dataset card by uncommenting the card section, restoring the d
ataset view functionality
Author: Belen Ramos <brgutierrez@us.es>
Date: Wed Jan 8 09:29:03 2025 +0100
    2 files changed, 3 insertions(+), 2 deletions(-)
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git push
Enumerando objetos: 17, listo.
Contando objetos: 100% (17/17), listo.
Compresión delta usando hasta 20 hilos
Comprimiendo objetos: 100% (6/6), listo.
Escribiendo objetos: 100% (9/9), 735 bytes | 735.00 KiB/s, listo.
Total 9 (delta 6), reused 3 (delta 1), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (6/6), completed with 6 local objects.
To github.com:franciiscocg/EGC-2425.git
   7260a34..13c1f69  main -> main
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$
```

Ejercicio GitHub Actions

Apartado 1



The screenshot shows the Visual Studio Code editor with a file named `ejercicio_ci.yml` open. The file is a GitHub Actions workflow for a CI pipeline. The left sidebar shows the Explorer view with the file structure of the repository, including `.github/workflows` and `ejercicio_ci.yml`. The main editor area shows the content of `ejercicio_ci.yml`, which defines a workflow with a single job named `pytest`. The job uses a Docker container with a MySQL database and runs a Python test suite using `pytest`. The workflow includes steps for checking out the code, setting up Python, and running the tests. The terminal window at the bottom shows the output of the workflow, indicating that the tests passed successfully.

```
ejercicio_ci.yml - EGC-2425 - Visual Studio Code
Edit Selection View Go Run Terminal Help

EXPLORER
  EGC-2425
    .github/workflows
      ! ejercicio_ci.yml
    > app
    > core
    > docker
    > migrations
    > rosemary
    > rosemary.egg-info
    > scripts
    > uploads
    > vagrant
    > venv
    > .env
    $ .env.docker.example
    $ .env.docker.production...
    $ .env.local.example
    $ .env.vagrant.example
    E .flake8
    > .gitattributes
    > .gitignore
    E .moduleignore
    E app.log
    ① README.md
    E requirements.txt
    > setup.py

> OUTLINE
> TIMELINE

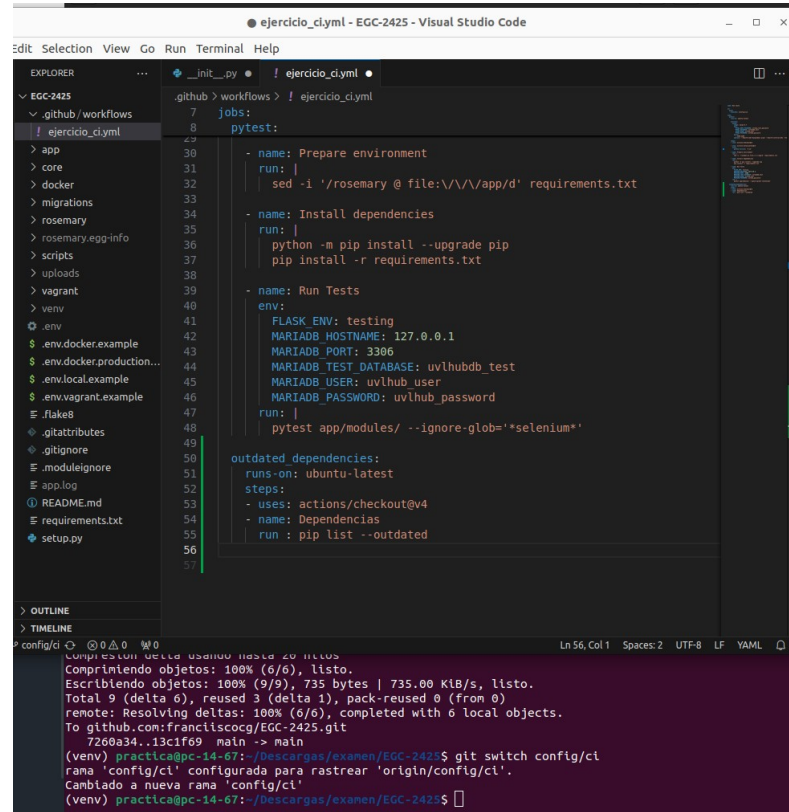
ejercicio_ci.yml
7 jobs:
8   pytest:
11     services:
12       mysql:
13         image: mysql:5.7
14         env:
15           MYSQL_ROOT_PASSWORD: uvlhub_root_password
16           MYSQL_DATABASE: uvlhubdb_test
17           MYSQL_USER: uvlhub_user
18           MYSQL_PASSWORD: uvlhub_password
19         ports:
20           - 3306:3306
21         options: --health-cmd="mysqladmin ping" --health-interval=10s --he...
22
23     steps:
24       - uses: actions/checkout@v4
25
26       - uses: actions/setup-python@v5
27         with:
28           python-version: 3.11
29
30       - name: Prepare environment
31         run: |
32           sed -i 'rosemary @ file:\\\\app\\d' requirements.txt
33
34       - name: Install dependencies
35         run: |
36           python -m pip install --upgrade pip
37           pip install -r requirements.txt
38
39       - name: Run Tests
40         env:
41           FLASK_ENV: testing
42           MARIADB_HOSTNAME: 127.0.0.1
43           MARIADB_PORT: 3306

Ln 28, Col 25 (6 selected) Spaces: 2 UTF-8 LF YAML
```

```
config/G 0 0 0 0 0 0
Comprimiendo objetos: 100% (6/6), listo.
Comprimiendo objetos: 100% (9/9), 735 bytes | 735.00 KiB/s, listo.
Total 9 (delta 6), reused 3 (delta 1), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (6/6), completed with 6 local objects.
To github.com:franciscocg/EGC-2425.git
  7260a34..13c1f69 main -> main
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git switch config/ci
rama 'config/ci' configurada para rastrear 'origin/config/ci'.
Cambiado a nueva rama 'config/ci'
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$
```

Ejercicio GitHub Actions

Apartado 2



The screenshot shows a Visual Studio Code editor window titled 'ejercicio_ci.yml - EGC-2425 - Visual Studio Code'. The Explorer panel on the left shows the file structure of the 'EGC-2425' repository, with 'ejercicio_ci.yml' selected under the '.github/workflows' directory. The main editor displays the content of 'ejercicio_ci.yml', which is a GitHub Actions workflow for running tests. The workflow includes jobs for preparing the environment, installing dependencies, and running tests. The terminal at the bottom shows the output of a 'git switch' command and a 'pip list --outdated' command.

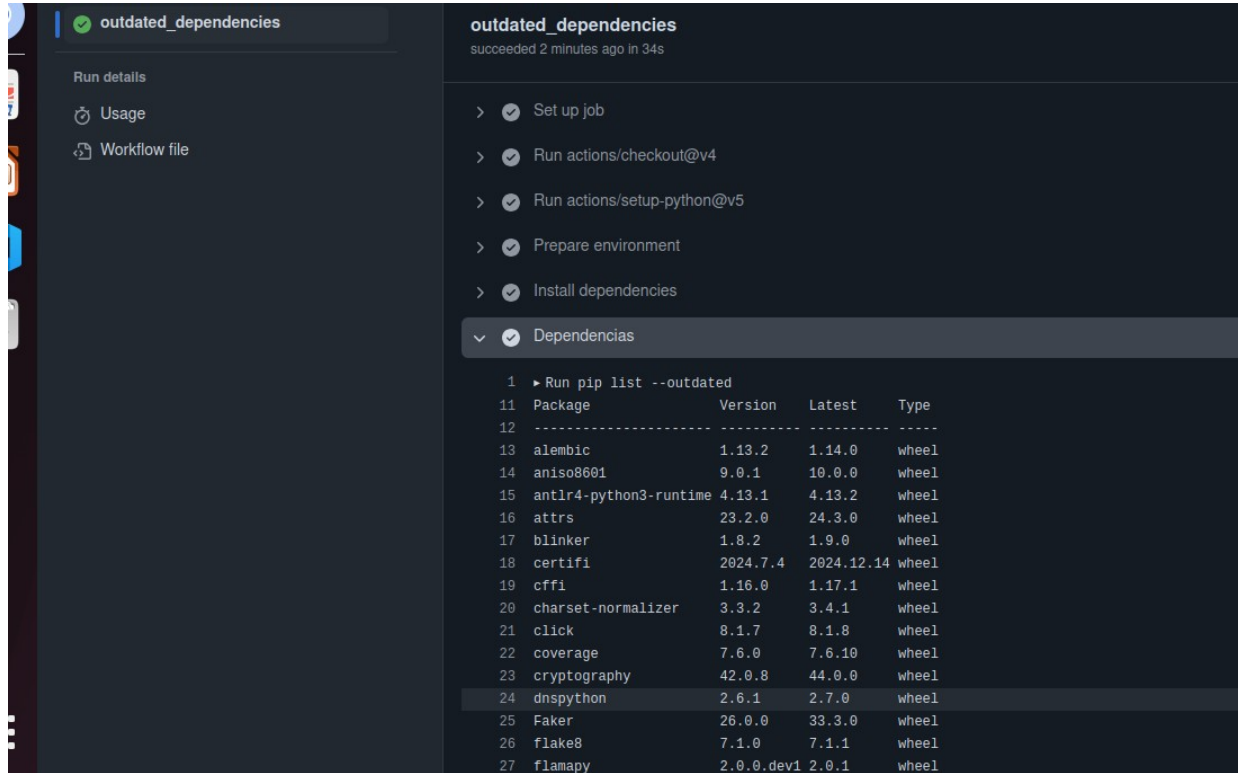
```
ejercicio_ci.yml
7 jobs:
8   pytest:
9     - name: Prepare environment
10       run: |
11         sed -i '/rosemary @ file:\V\/\V\/app/d' requirements.txt
12     - name: Install dependencies
13       run: |
14         python -m pip install --upgrade pip
15         pip install -r requirements.txt
16     - name: Run Tests
17       env:
18         FLASK_ENV: testing
19         MARIADB_HOSTNAME: 127.0.0.1
20         MARIADB_PORT: 3306
21         MARIADB_TEST_DATABASE: uvlhubdb_test
22         MARIADB_USER: uvlhub_user
23         MARIADB_PASSWORD: uvlhub_password
24       run: |
25         pytest app/modules/ --ignore-glob='*selenium*'
26
27 outdated_dependencies:
28   runs-on: ubuntu-latest
29   steps:
30     - uses: actions/checkout@v4
31     - name: Dependencias
32       run: pip list --outdated
```

Ln 56, Col 1 Spaces: 2 UTF-8 LF YAML

```
config/ci
Comprimiendo delta usando hasta 20 hilos
Comprimiendo objetos: 100% (6/6), listo.
Escribiendo objetos: 100% (9/9), 735 bytes | 735.00 KiB/s, listo.
Total 9 (delta 6), reused 3 (delta 1), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (6/6), completed with 6 local objects.
To github.com:franciscocg/EGC-2425.git
7268a34..13c1f69 main -> main
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$ git switch config/ci
rama 'config/ci' configurada para rastrear 'origin/config/ci'.
Cambiado a nueva rama 'config/ci'
(venv) practica@pc-14-67:~/Descargas/examen/EGC-2425$
```

Ejercicio GitHub Actions

Apartado 3



The screenshot shows a GitHub Actions workflow run for the job `outdated_dependencies`. The workflow has completed successfully, as indicated by the green checkmark and the status "succeeded 2 minutes ago in 34s".

The left sidebar shows the workflow file and the run details. The main panel displays the steps of the workflow:

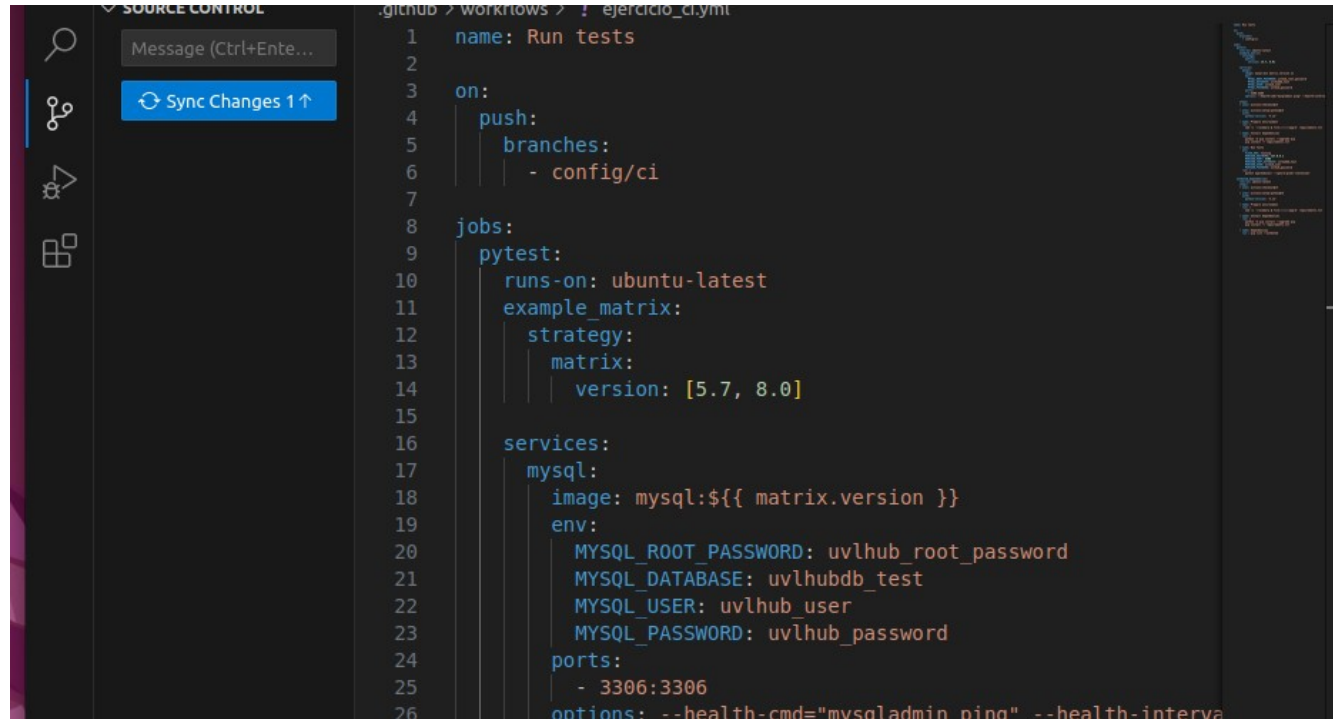
- Set up job
- Run actions/checkout@v4
- Run actions/setup-python@v5
- Prepare environment
- Install dependencies
- Dependencias

The `Dependencias` step is expanded, showing the output of the command `Run pip list --outdated`. The output is a table listing outdated packages:

Package	Version	Latest	Type
alembic	1.13.2	1.14.0	wheel
aniso8601	9.0.1	10.0.0	wheel
antlr4-python3-runtime	4.13.1	4.13.2	wheel
attrs	23.2.0	24.3.0	wheel
blinker	1.8.2	1.9.0	wheel
certifi	2024.7.4	2024.12.14	wheel
cffi	1.16.0	1.17.1	wheel
charset-normalizer	3.3.2	3.4.1	wheel
click	8.1.7	8.1.8	wheel
coverage	7.6.0	7.6.10	wheel
cryptography	42.0.8	44.0.0	wheel
dnspython	2.6.1	2.7.0	wheel
Faker	26.0.0	33.3.0	wheel
flake8	7.1.0	7.1.1	wheel
flamapy	2.0.0.dev1	2.0.1	wheel

Ejercicio GitHub Actions

Apartado 4



The screenshot shows a code editor with a dark theme. On the left, there is a sidebar with icons for Source Control, Search, and a button labeled 'Sync Changes 1 ↑'. The main editor area displays a YAML file named '.github > workflows > ejercicio_ci.yml'. The file content is as follows:

```
1  name: Run tests
2
3  on:
4    push:
5      branches:
6        - config/ci
7
8  jobs:
9    pytest:
10     runs-on: ubuntu-latest
11     example_matrix:
12       strategy:
13         matrix:
14           version: [5.7, 8.0]
15
16     services:
17       mysql:
18         image: mysql:${{ matrix.version }}
19         env:
20           MYSQL_ROOT_PASSWORD: uvlhub_root_password
21           MYSQL_DATABASE: uvlhubdb_test
22           MYSQL_USER: uvlhub_user
23           MYSQL_PASSWORD: uvlhub_password
24         ports:
25           - 3306:3306
26         options: --health-cmd="mysqladmin ping" --health-interva
```

Ejercicio GitHub Actions

Apartado 5

Ejercicio Docker

Apartado 1

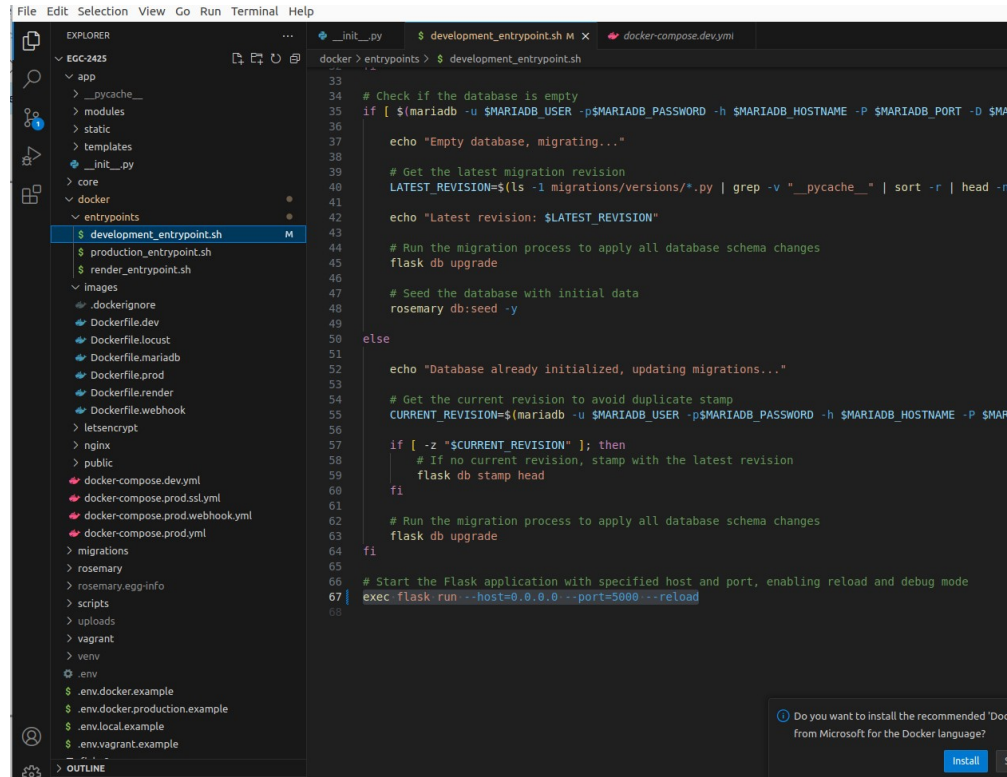
```
practica@pc-14-67:~$ docker system prune
WARNING! This will remove:
- all stopped containers
- all networks not used by at least one container
- all dangling images
- unused build cache

Are you sure you want to continue? [y/N] y
Deleted Containers:
a607225eba4f9178ca15d758d5d473e6dc97d8428fb7aec34f86a63bfa7e67
aca361968a14a5ce92f35a1a7f196ff23054bacc8d1eead87bd6d69a4de17ea6
06afd9f50236f1d6b6000f953ff506dd439f2393cc6b9b3606ae53a32a54384d
22440c72309544a67be649db37be492b3ee4279a45f5fad4362f7891c1409ec3
6ab911ebfc79f156c158b18462efe511fccf20c0a8f8226896c7395f2ac9a1fa
c2a8113dadf94015e5a9b4806498c93503e5a85b6a5ae4c8d851f1e9c6b9ea40
325cc3096a3805df709cf0dea1b4acfbe013615251037d93e255829aafb3547f
4250d1f169cefeee316ef608dc9b2ba4d7567ebc4a3ab48cfa39e89951494611

Total reclaimed space: 0B
practica@pc-14-67:~$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
practica@pc-14-67:~$ cd Descargas/
practica@pc-14-67:~/Descargas$ cd examen/EGC-2425
practica@pc-14-67:~/Descargas/examen/EGC-2425$ docker compose -f docker/docker-compose.dev.yml up -d
[+] Running 2/2
! web Warning toomanyrequests: You have reached your pull rate limit. You may increase the limit by authenticating and upgrading: https://www.docker.com/increase-rate-limit 1.2s
X nginx Error toomanyrequests: You have reached your pull rate limit. You may increase the limit by authenticating and upgrading: https://www.docker.com/increase-rate-limit 1.2s
Error response from daemon: toomanyrequests: You have reached your pull rate limit. You may increase the limit by authenticating and upgrading: https://www.docker.com/increase-rate-limit
practica@pc-14-67:~/Descargas/examen/EGC-2425$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
practica@pc-14-67:~/Descargas/examen/EGC-2425$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS              NAMES
practica@pc-14-67:~/Descargas/examen/EGC-2425$ docker compose -f docker/docker-compose.dev.yml up -d
[+] Running 2/2
X nginx Error toomanyrequests: You have reached your pull rate limit. You may increase the limit by authenticating and upgrading: https://www.docker.com/increase-rate-limit 1.2s
! web Warning toomanyrequests: You have reached your pull rate limit. You may increase the limit by authenticating and upgrading: https://www.docker.com/increase-rate-limit 1.1s
Error response from daemon: toomanyrequests: You have reached your pull rate limit. You may increase the limit by authenticating and upgrading: https://www.docker.com/increase-rate-limit
practica@pc-14-67:~/Descargas/examen/EGC-2425$
```


Ejercicio Docker

Apartado 2



```
File Edit Selection View Go Run Terminal Help
EXPLORER
EGC-2425
├── app
│   ├── __pycache__
│   ├── modules
│   ├── static
│   ├── templates
│   ├── __init__.py
│   ├── core
│   └── docker
│       ├── entrypoints
│       │   ├── $ development_entrypoint.sh M
│       │   ├── $ production_entrypoint.sh
│       │   └── $ render_entrypoint.sh
│       ├── images
│       ├── .dockerignore
│       ├── Dockerfile.dev
│       ├── Dockerfile.locust
│       ├── Dockerfile.mariadb
│       ├── Dockerfile.prod
│       ├── Dockerfile.render
│       ├── Dockerfile.webhook
│       ├── letsencrypt
│       ├── nginx
│       ├── public
│       ├── docker-compose.dev.yml
│       ├── docker-compose.prod.ssl.yml
│       ├── docker-compose.prod.webhook.yml
│       ├── docker-compose.prod.yml
│       ├── migrations
│       ├── rosemary
│       ├── rosemary.egg-info
│       ├── scripts
│       ├── uploads
│       ├── vagrant
│       ├── venv
│       ├── .env
│       ├── .env.docker.example
│       ├── .env.docker.production.example
│       ├── .env.local.example
│       ├── .env.vagrant.example
│       └── ...
└── OUTLINE

development_entrypoint.sh
33
34 # Check if the database is empty
35 if [ $(mariadb -u $MARIADB_USER -p$MARIADB_PASSWORD -h $MARIADB_HOSTNAME -P $MARIADB_PORT -D $MARIADB_DATABASE -e "SELECT 1") ]; then
36
37     echo "Empty database, migrating..."
38
39     # Get the latest migration revision
40     LATEST_REVISION=$(ls -l migrations/versions/*.py | grep -v "__pycache__" | sort -r | head -n 1 | awk '{print $9}')
41
42     echo "Latest revision: $LATEST_REVISION"
43
44     # Run the migration process to apply all database schema changes
45     flask db upgrade
46
47     # Seed the database with initial data
48     rosemary db:seed -y
49
50 else
51
52     echo "Database already initialized, updating migrations..."
53
54     # Get the current revision to avoid duplicate stamp
55     CURRENT_REVISION=$(mariadb -u $MARIADB_USER -p$MARIADB_PASSWORD -h $MARIADB_HOSTNAME -P $MARIADB_PORT -D $MARIADB_DATABASE -e "SELECT CURRENT_REVISION")
56
57     if [ -z "$CURRENT_REVISION" ]; then
58         # If no current revision, stamp with the latest revision
59         flask db stamp head
60     fi
61
62     # Run the migration process to apply all database schema changes
63     flask db upgrade
64 fi
65
66 # Start the Flask application with specified host and port, enabling reload and debug mode
67 exec flask run --host=0.0.0.0 --port=5000 --reload
68
```

Do you want to install the recommended 'Docker Desktop' from Microsoft for the Docker language?

Install

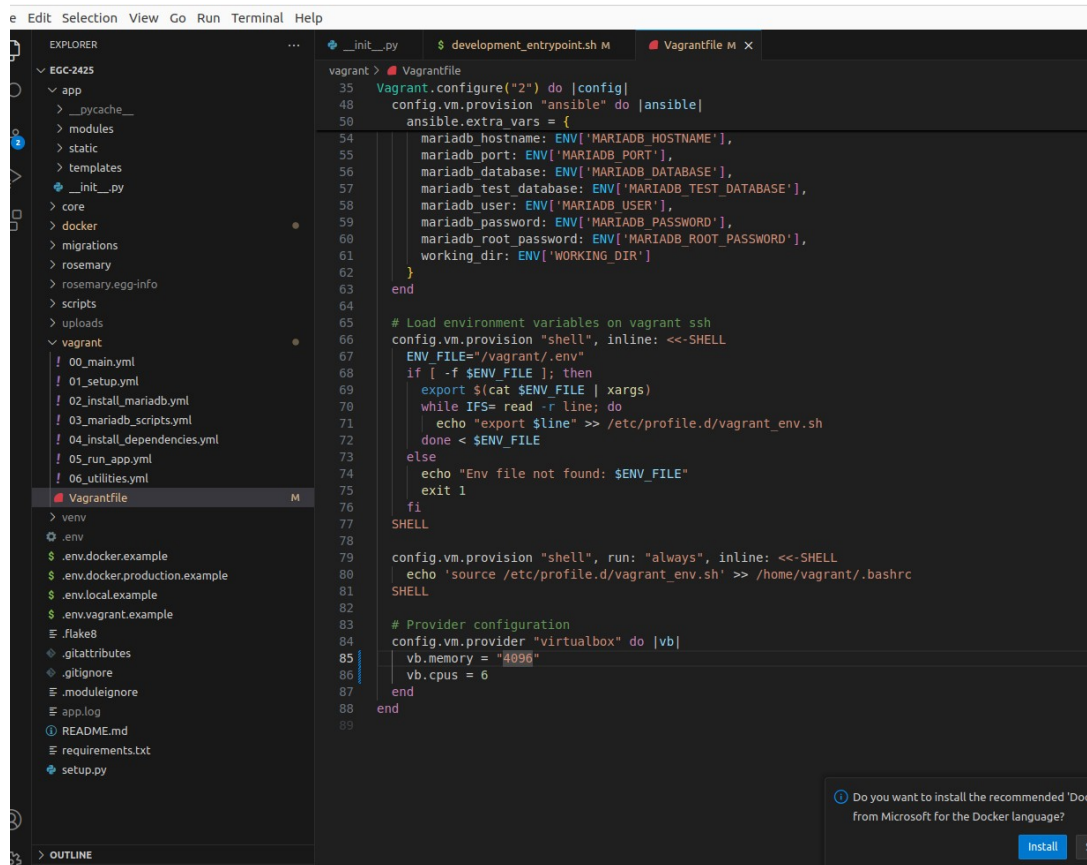
Ejercicio Docker

Apartado 3

No se puede comprobar debido a la problema de los pulls, profesor b1.31

Ejercicio Vagrant

Apartado 1



The screenshot shows a VS Code editor with a Vagrantfile open. The file explorer on the left shows a project structure with a 'vagrant' directory. The Vagrantfile content is as follows:

```
vagrant > Vagrantfile
35 Vagrant.configure("2") do |config|
48   config.vm.provision "ansible" do |ansible|
50     ansible.extra_vars = {
54       mariadb_hostname: ENV['MARIADB_HOSTNAME'],
55       mariadb_port: ENV['MARIADB_PORT'],
56       mariadb_database: ENV['MARIADB_DATABASE'],
57       mariadb_test_database: ENV['MARIADB_TEST_DATABASE'],
58       mariadb_user: ENV['MARIADB_USER'],
59       mariadb_password: ENV['MARIADB_PASSWORD'],
60       mariadb_root_password: ENV['MARIADB_ROOT_PASSWORD'],
61       working_dir: ENV['WORKING_DIR']
62     }
63   end
64
65   # Load environment variables on vagrant ssh
66   config.vm.provision "shell", inline: <<-SHELL
67     ENV_FILE="/vagrant/.env"
68     if [ -f $ENV_FILE ]; then
69       export $(cat $ENV_FILE | xargs)
70       while IFS= read -r line; do
71         echo "export $line" >> /etc/profile.d/vagrant_env.sh
72       done < $ENV_FILE
73     else
74       echo "Env file not found: $ENV_FILE"
75       exit 1
76     fi
77   SHELL
78
79   config.vm.provision "shell", run: "always", inline: <<-SHELL
80     echo 'source /etc/profile.d/vagrant_env.sh' >> /home/vagrant/.bashrc
81   SHELL
82
83   # Provider configuration
84   config.vm.provider "virtualbox" do |vb|
85     vb.memory = "4096"
86     vb.cpus = 6
87   end
88 end
```

A notification in the bottom right corner asks: "Do you want to install the recommended 'Docker' from Microsoft for the Docker language?" with "Install" and "Skip" buttons.

Ejercicio Vagrant

Apartado 2

Git add .

Git commit -m " VAggrant"

Git push

```
practica@pc-14-67:~/Descargas/examen/EGC-2425$ git switch chore/
chore/docker
practica@pc-14-67:~/Descargas/examen/EGC-2425$ git switch chore/vagrant
M
docker/entrypoints/development_entrypoint.sh
rama 'chore/vagrant' configurada para rastrear 'origin/chore/vagrant'.
Cambiado a nueva rama 'chore/vagrant'
practica@pc-14-67:~/Descargas/examen/EGC-2425$ vagrant up
A Vagrant environment or target machine is required to run this
command. Run 'vagrant init' to create a new Vagrant environment. Or,
get an ID of a target machine from 'vagrant global-status' to run
this command on. A final option is to change to a directory with a
Vagrantfile and to try again.
practica@pc-14-67:~/Descargas/examen/EGC-2425$ cd
app/ .git/ rosemary.egg-info/ vagrant/
core/ migrations/ scripts/ venv/
docker/ rosemary/ uploads/
practica@pc-14-67:~/Descargas/examen/EGC-2425$ cd v
vagrant/ venv/
practica@pc-14-67:~/Descargas/examen/EGC-2425$ cd vagrant/
practica@pc-14-67:~/Descargas/examen/EGC-2425/vagrant$ vagrant up
Loading .env file from: /home/practica/Descargas/examen/EGC-2425/.env
FLASK_APP_NAME: "UVLHUB.10(dev)"
FLASK_ENV: development
DOMAIN: localhost
MARIADB_HOSTNAME: db
MARIADB_PORT: 3306
MARIADB_DATABASE: uvlhubdb
MARIADB_TEST_DATABASE: uvlhubdb_test
MARIADB_USER: uvlhubdb_user
MARIADB_PASSWORD: uvlhubdb_password
MARIADB_ROOT_PASSWORD: uvlhubdb_root_password
WORKING_DIR: /app/
Bringing machine 'default' up with 'virtualbox' provider...
==> default: Box 'ubuntu/jammy64' could not be found. Attempting to find and install...
default: Box Provider: virtualbox
default: Box Version: >= 0
==> default: Loading metadata for box 'ubuntu/jammy64'
default: URL: https://vagrantcloud.com/api/v2/vagrant/ubuntu/jammy64
==> default: Adding box 'ubuntu/jammy64' (v20241002.0.0) for provider: virtualbox
default: Downloading: https://vagrantcloud.com/ubuntu/boxes/jammy64/versions/20241002.0.0/provide
rs/virtualbox/unknown/vagrant.box
The box failed to unpack properly. Please verify that the box
file you're trying to add is not corrupted and that enough disk space
is available and then try again.
The output from attempting to unpack (if any):
bsdtar: Error opening archive: Unrecognized archive format
practica@pc-14-67:~/Descargas/examen/EGC-2425/vagrant$
```

Ejercicio GitHub A

1. Cambie a la rama con para usar Python 3.11.
2. Añada un nuevo job para comprobar depend
3. Verifique el correcto fun
4. Configure el workflow p
5. Verifique el correcto fun

Ejercicio Docker (2

1. Cambie a la rama cho en el equipo.
2. Configure uvlhub par despliegue con Docker.
3. Compruebe su correct debug. No olvide hacer co

Ejercicio Vagrant (2

1. Cambie a la rama cho la máquina virtual creada
2. Despliegue el sistema rama chore/vagrant .

2

chore/vagrant

This branch is 1 commit ahead of EGCETSII/EGC-2425:chore/vagrant .

franciiscogc Vagrant: change cpu and ram 1dfa3ab · now

app	Initialise base project	2 days ago
core	Initialise base project	2 days ago
docker	Initialise base project	2 days ago
migrations	Initialise base project	2 days ago
rosemary	Initialise base project	2 days ago
scripts	Initialise base project	2 days ago
vagrant	Vagrant: change cpu and ram	now
.env.docker.example	Initialise base project	2 days ago