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Video Searching

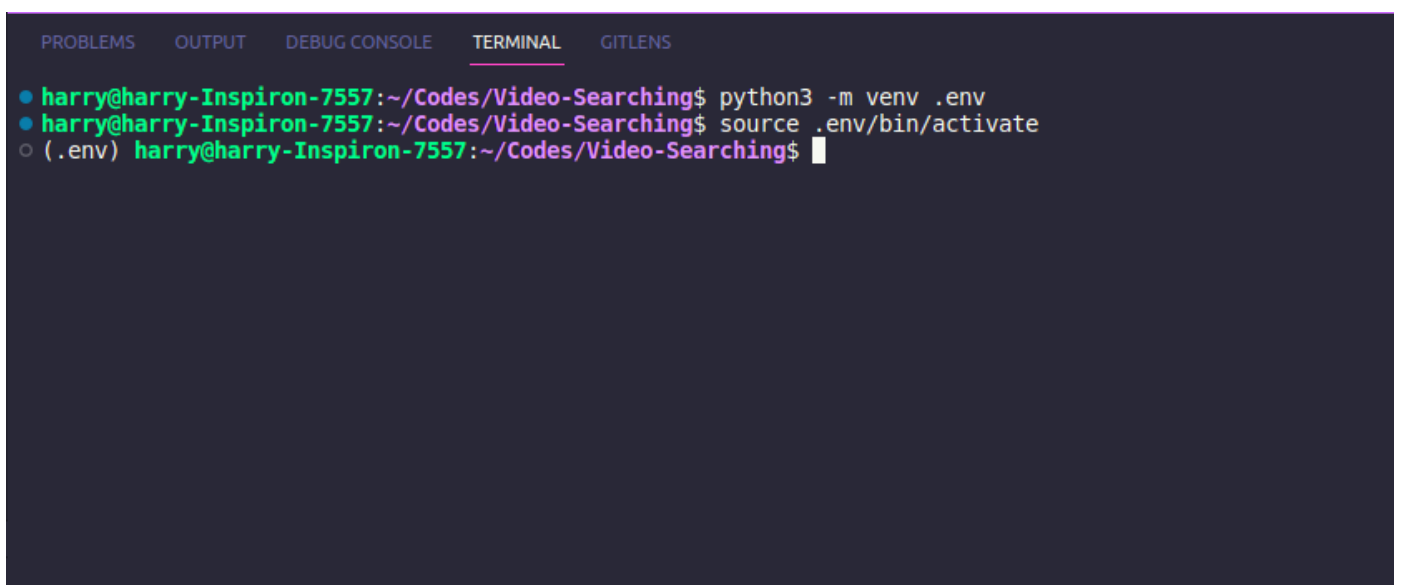
1. Cài đặt môi trường

- Tạo môi trường python
 - Với Linux

```
python3 -m venv .env  
source .env/bin/activate
```

- Với Window

```
python -m venv .env  
.\.env\Scripts\activate
```



The screenshot shows a VS Code interface with a terminal window open. The terminal has tabs for PROBLEMS, OUTPUT, DEBUG CONSOLE, TERMINAL (which is active), and GITLENS. The terminal output shows the following commands and their execution:

```
harry@harry-Inspiron-7557:~/Codes/Video-Searching$ python3 -m venv .env  
harry@harry-Inspiron-7557:~/Codes/Video-Searching$ source .env/bin/activate  
(.env) harry@harry-Inspiron-7557:~/Codes/Video-Searching$
```

- Cài đặt thư viện

```
pip install -r requirements.txt
```

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL GITLENS
• harry@harry-Inspiron-7557:~/Codes/Video-Searching$ python3 -m venv .env
• harry@harry-Inspiron-7557:~/Codes/Video-Searching$ source .env/bin/activate
○ (.env) harry@harry-Inspiron-7557:~/Codes/Video-Searching$ pip install -r requirements.txt
Collecting blinker==1.6.2
  Using cached blinker-1.6.2-py3-none-any.whl (13 kB)
Collecting click==8.1.3
  Using cached click-8.1.3-py3-none-any.whl (96 kB)
Collecting colorama==0.4.6
  Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Collecting Flask==2.3.2
  Using cached Flask-2.3.2-py3-none-any.whl (96 kB)
Collecting Flask-Cors==3.0.10
  Using cached Flask_Cors-3.0.10-py2.py3-none-any.whl (14 kB)
Collecting Flask-SQLAlchemy==3.0.3
  Using cached Flask_SQLAlchemy-3.0.3-py3-none-any.whl (24 kB)
Collecting greenlet==2.0.2
  Using cached greenlet-2.0.2-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (618 kB)
Collecting imageio==2.31.0
  Using cached imageio-2.31.0-py3-none-any.whl (313 kB)
Collecting itsdangerous==2.1.2
  Using cached itsdangerous-2.1.2-py3-none-any.whl (15 kB)
Collecting Jinja2==3.1.2
  Using cached Jinja2-3.1.2-py3-none-any.whl (133 kB)
Collecting joblib==1.2.0
  Using cached joblib-1.2.0-py3-none-any.whl (297 kB)
Collecting lazy_loader==0.2
  Using cached lazy_loader-0.2-py3-none-any.whl (8.6 kB)
Collecting MarkupSafe==2.1.3
  Using cached MarkupSafe-2.1.3-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (25 kB)
Collecting networkx==3.1
  Using cached networkx-3.1-py3-none-any.whl (2.1 MB)
Collecting numpy==1.24.3
  Using cached numpy-1.24.3-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (17.3 MB)
Collecting opencv-python==4.7.0.72
  Using cached opencv_python-4.7.0.72-cp37-abi3-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (61.8 MB)
Collecting packaging==23.1
  Using cached packaging-23.1-py3-none-any.whl (48 kB)
Collecting Pillow==9.5.0
  Using cached Pillow-9.5.0-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (3.3 MB)
Collecting PyWavelets==1.4.1
  Using cached PyWavelets-1.4.1-cp38-cp38-manylinux_2_17_x86_64.manylinux2014_x86_64.whl (6.9 MB)
```

- Cài đặt thư viện cho Frontend

```
cd frontend/
npm install
```

```
• (.env) harry@harry-Inspiron-7557:~/Codes/Video-Searching$ cd frontend/
• (.env) harry@harry-Inspiron-7557:~/Codes/Video-Searching/frontend$ npm install
npm WARN deprecated stable@0.1.8: Modern JS already guarantees Array#sort() is a stable sort, s
zilla.org/en-US/docs/Web/JavaScript/Reference/Global_Objects/Array/sort#browser_compatibility
npm WARN deprecated rollup-plugin-terser@7.0.2: This package has been deprecated and is no long
npm WARN deprecated w3c-hr-time@1.0.2: Use your platform's native performance.now() and perform
npm WARN deprecated sourcemap-codec@1.4.8: Please use @jridgewell/sourcemap-codec instead
npm WARN deprecated workbox-cacheable-response@6.6.0: workbox-background-sync@6.6.0
npm WARN deprecated svgo@1.3.2: This SVGO version is no longer supported. Upgrade to v2.x.x.

added 1504 packages, and audited 1505 packages in 44s

234 packages are looking for funding
  run `npm fund` for details

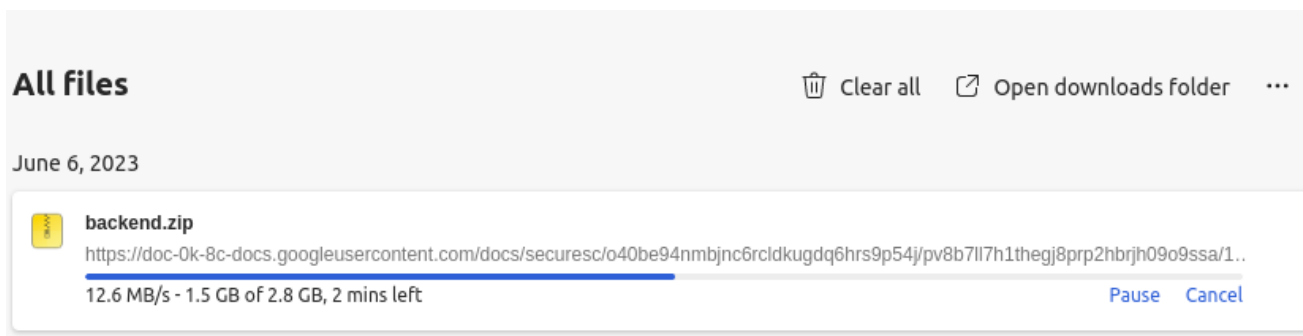
6 high severity vulnerabilities

To address all issues (including breaking changes), run:
  npm audit fix --force

Run `npm audit` for details.
○ (.env) harry@harry-Inspiron-7557:~/Codes/Video-Searching/frontend$
```

2. Lấy dữ liệu

- Tải dữ liệu về từ [Link](#) và giải nén vào folder backend

A screenshot of a file explorer window showing the contents of a folder named "backend". The window has a dark theme and a search bar. The file list is as follows:

Name	Size	Modified
api.http	388 bytes	15:27
app.py	4,6 kB	15:27
backend.zip	3,0 GB	15:52
instance	2 items	11:20
public	1 item	11:26
README.md	38 bytes	15:27
trim_video.py	3,6 kB	15:27
utils.py	1,0 kB	15:27
.gitignore	95 bytes	15:27

3. Chạy project

- Chạy backend

```
cd backend/  
python app.py
```

```

source /home/harry/Codes/Video-Searching/.env/bin/activate
● harry@harry-Inspiron-7557:~/Codes/Video-Searching$ source /home/harry/Codes/Video-Searching/.env/bin/activate
● (.env) harry@harry-Inspiron-7557:~/Codes/Video-Searching$ cd backend/
○ (.env) harry@harry-Inspiron-7557:~/Codes/Video-Searching/backend$ python app.py
  * Serving Flask app 'app'
  * 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 http://localhost:3003
Press CTRL+C to quit
  * Restarting with stat
  * Debugger is active!
  * Debugger PIN: 117-988-008

```

- Chạy frontend

```

cd frontend/
npm start

```

```

source /home/harry/Codes/Video-Searching/.env/bin/activate
● harry@harry-Inspiron-7557:~/Codes/Video-Searching$ source /home/harry/Codes/Video-Searching/.env/bin/activate
● (.env) harry@harry-Inspiron-7557:~/Codes/Video-Searching$ cd frontend/
○ (.env) harry@harry-Inspiron-7557:~/Codes/Video-Searching/frontend$ npm start

```

Compiled successfully!

You can now view `find_videos_based_on_image` in the browser.

Local: `http://localhost:3000`
On Your Network: `http://192.168.0.138:3000`

Note that the development build is not optimized.
 To create a production build, use `npm run build`.

webpack compiled **successfully**

- Giao diện hệ thống sẽ hiện lên

