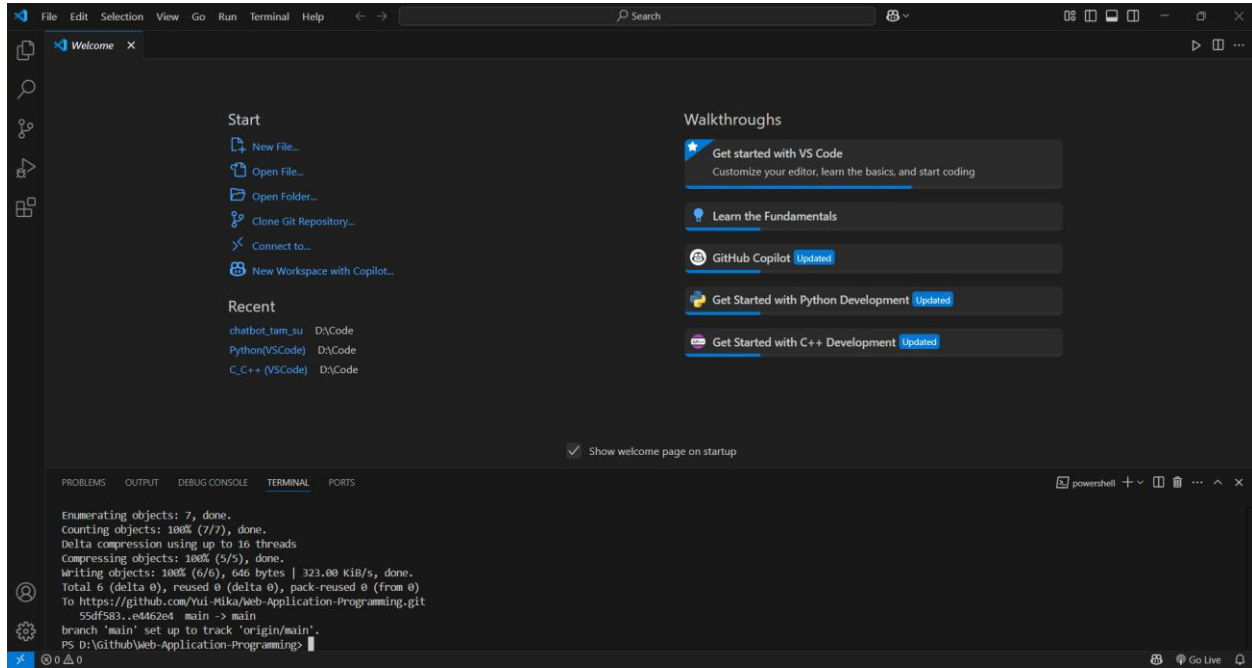


Dương Ngọc Linh Đan - 2374802010091

2. Setting up the code editing environment:

2.1 Installing Visual Studio Code:

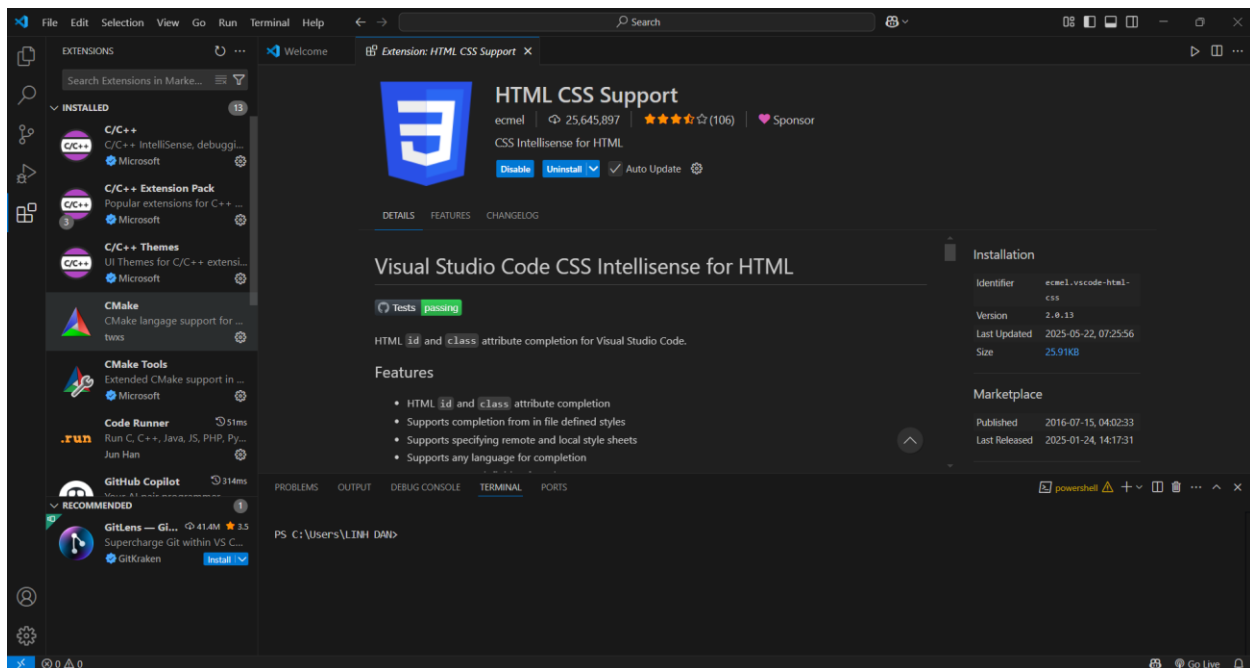


2.2 Extensions to Support Programming and Libraries:

- Install Python:

```
C:\Users\LINH DAN>python --version
Python 3.13.2
```

- Install HTML CSS Support:



2.3 Required Libraries:

```
C:\Users\LINH DAN>flask --version
Python 3.13.2
Flask 3.1.1
Werkzeug 3.1.3
```

```
Microsoft Windows [Version 10.0.26100.4061]
(c) Microsoft Corporation. All rights reserved.

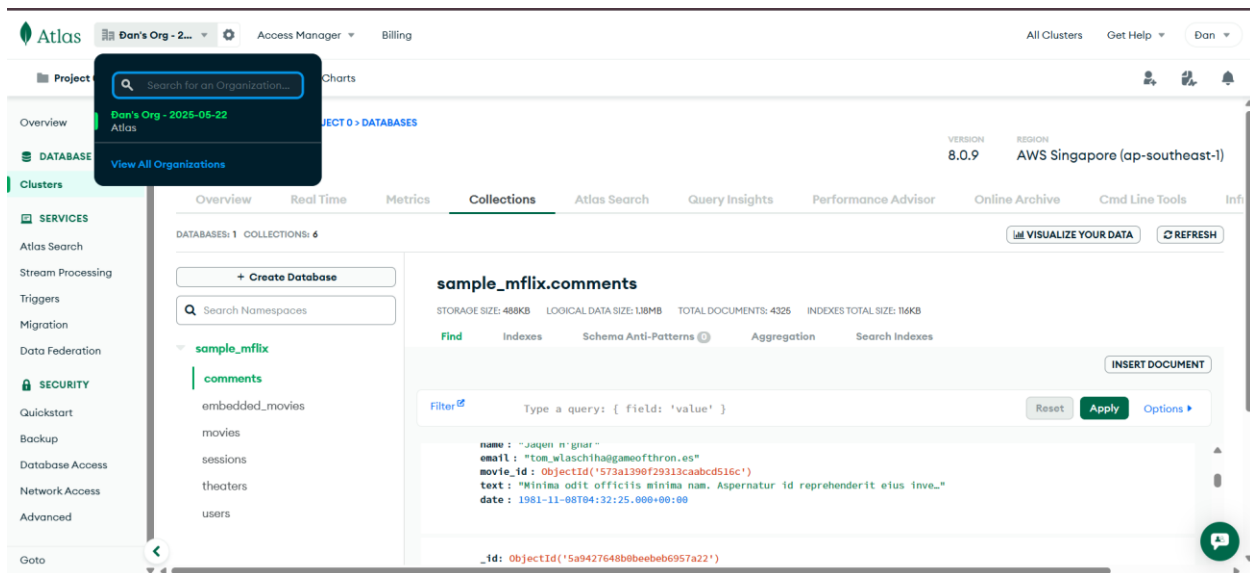
C:\Users\LINH DAN>pip install pymongo
Collecting pymongo
  Downloading pymongo-4.13.0-cp313-cp313-win_amd64.whl.metadata (22 kB)
Collecting dnspython<3.0.0,>=1.16.0 (from pymongo)
  Downloading dnspython-2.7.0-py3-none-any.whl.metadata (5.8 kB)
  Downloading pymongo-4.13.0-cp313-cp313-win_amd64.whl (949 kB)
    949.4/949.4 kB 949.2 kB/s eta 0:00:00
  Downloading dnspython-2.7.0-py3-none-any.whl (313 kB)
Installing collected packages: dnspython, pymongo
Successfully installed dnspython-2.7.0 pymongo-4.13.0

C:\Users\LINH DAN>pip install dnspython
Requirement already satisfied: dnspython in c:\users\linh dan\appdata\local\programs\python\python313\lib\site-packages (2.7.0)

C:\Users\LINH DAN>pip install python-dotenv
Collecting python-dotenv
  Downloading python_dotenv-1.1.0-py3-none-any.whl.metadata (24 kB)
  Downloading python_dotenv-1.1.0-py3-none-any.whl (20 kB)
Installing collected packages: python-dotenv
Successfully installed python-dotenv-1.1.0

C:\Users\LINH DAN>
```

3. Connecting to MongoDB Atlas:



4. Uploading and Downloading Data from GitHub:

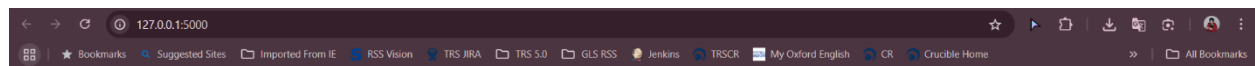
```
PS D:\Github\Web-Application-Programming> git add .
PS D:\Github\Web-Application-Programming> git commit -m "Add exercises Ex 6.1, Ex 6.2, Ex 6.3"
>>
[main 4d9d1e7] Add exercises Ex 6.1, Ex 6.2, Ex 6.3
9 files changed, 373 insertions(+)
create mode 100644 Lab1/Ex 6.1/app.py
create mode 100644 Lab1/Ex 6.1/static/style.css
create mode 100644 Lab1/Ex 6.1/templates/index.html
create mode 100644 Lab1/Ex 6.2/app.py
create mode 100644 Lab1/Ex 6.2/static/style.css
create mode 100644 Lab1/Ex 6.2/templates/student.html
create mode 100644 Lab1/Ex 6.3/app.py
create mode 100644 Lab1/Ex 6.3/static/style.css
create mode 100644 Lab1/Ex 6.3/templates/form.html
PS D:\Github\Web-Application-Programming> git push
Enumerating objects: 23, done.
Counting objects: 100% (23/23), done.
```

```
Delta compression using up to 16 threads
Compressing objects: 100% (15/15), done.
Writing objects: 100% (21/21), 5.13 KiB | 2.57 MiB/s, done.
Total 21 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/Yui-Mika/Web-Application-Programming.git
   e4462e4..4d9d1e7  main -> main
PS D:\Github\Web-Application-Programming> git add .
PS D:\Github\Web-Application-Programming> git commit -m "First commit"
[main ff52671] First commit
   1 file changed, 0 insertions(+), 0 deletions(-)
   create mode 100644 Lab1/README.md
PS D:\Github\Web-Application-Programming> git push
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 16 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (4/4), 376 bytes | 376.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/Yui-Mika/Web-Application-Programming.git
```

5. Developing Your First Flask Application:

```
app.py ×
Lab1 > app.py > ...
1  from flask import Flask, render_template
2  app = Flask(__name__)
3
4  @app.route('/')
5  def hello():
6      return render_template('hello.html')
7
8  if __name__ == '__main__':
9      app.run(debug=True)
```

```
hello.html X
Lab1 > templates > hello.html > ...
1  <!DOCTYPE html>
2  <html>
3  <head>
4  |   <title>Hello</title>
5  </head>
6  <body>
7  |   <h1>Hello, World!</h1>
8  </body>
9  </html>
```



Hello, World!