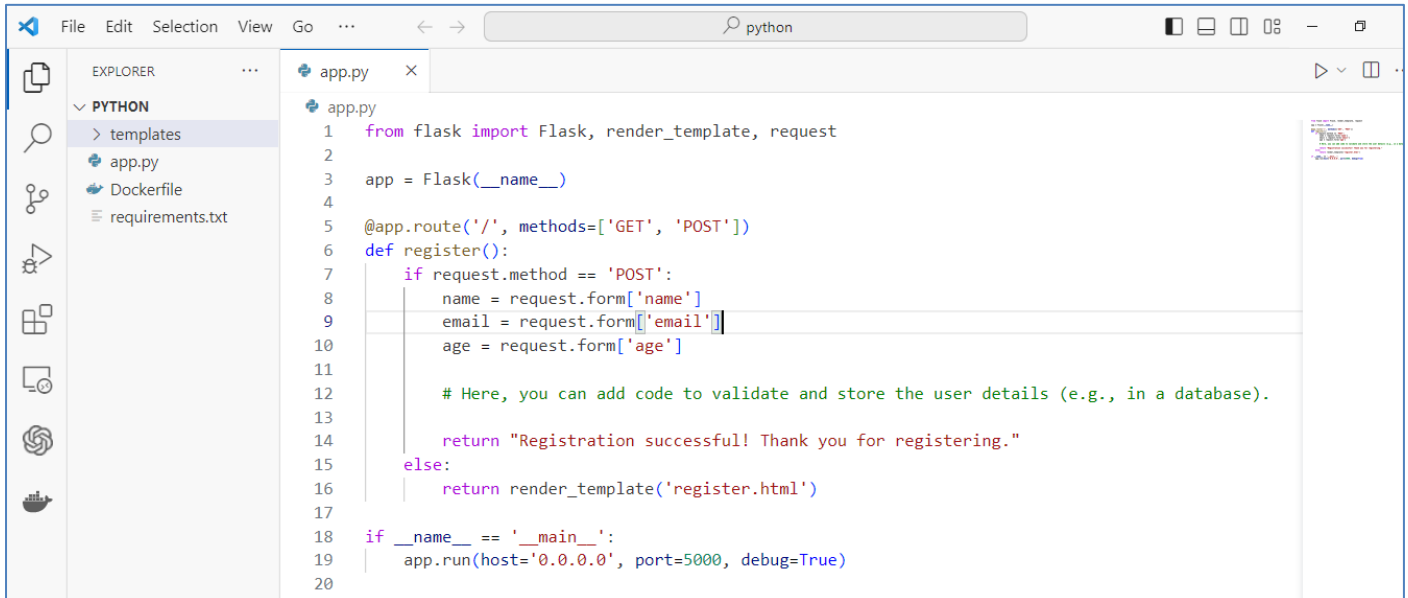


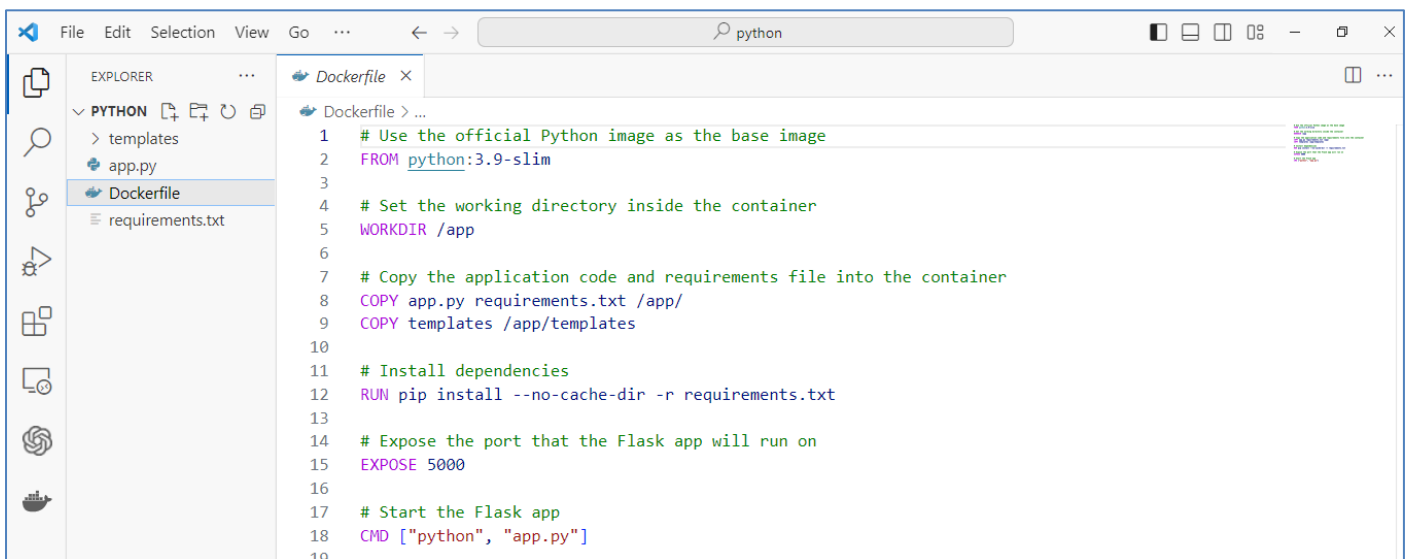
## EXPERMINT: 01

● **Aim:** Write code for a Simple User registration for an event.

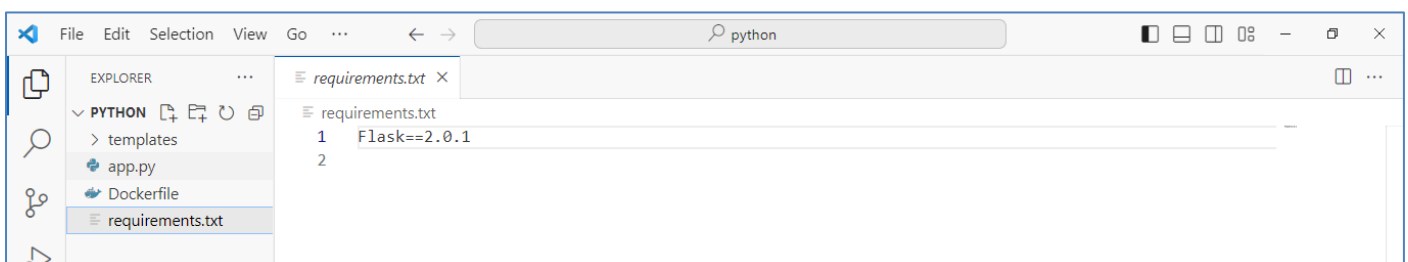
● **Input:**



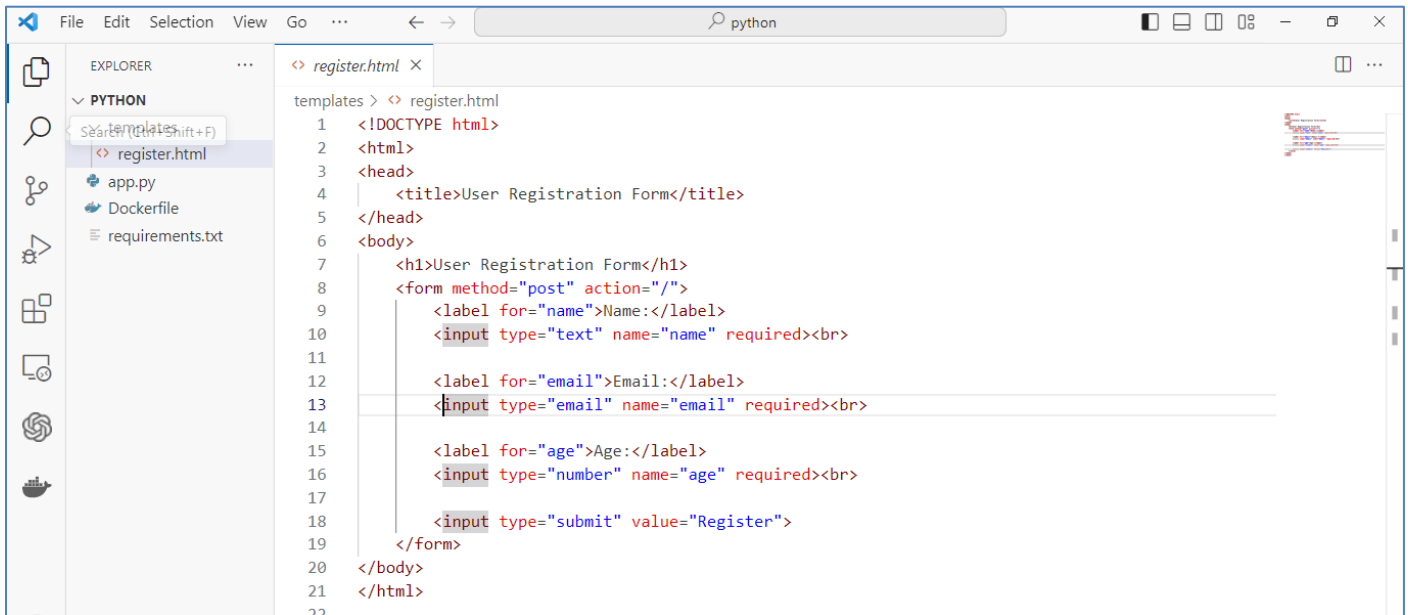
```
1 from flask import Flask, render_template, request
2
3 app = Flask(__name__)
4
5 @app.route('/', methods=['GET', 'POST'])
6 def register():
7     if request.method == 'POST':
8         name = request.form['name']
9         email = request.form['email']
10        age = request.form['age']
11
12        # Here, you can add code to validate and store the user details (e.g., in a database).
13
14        return "Registration successful! Thank you for registering."
15    else:
16        return render_template('register.html')
17
18 if __name__ == '__main__':
19     app.run(host='0.0.0.0', port=5000, debug=True)
20
```



```
1 # Use the official Python image as the base image
2 FROM python:3.9-slim
3
4 # Set the working directory inside the container
5 WORKDIR /app
6
7 # Copy the application code and requirements file into the container
8 COPY app.py requirements.txt /app/
9 COPY templates /app/templates
10
11 # Install dependencies
12 RUN pip install --no-cache-dir -r requirements.txt
13
14 # Expose the port that the Flask app will run on
15 EXPOSE 5000
16
17 # Start the Flask app
18 CMD ["python", "app.py"]
19
```



```
1 Flask==2.0.1
2
```



The screenshot shows a web browser window displaying a user registration form. The form has fields for Name, Email, and Age, each with a corresponding label and a required input field. There is a 'Register' button at the bottom. The file explorer on the left shows the project structure with files like app.py, Dockerfile, and requirements.txt.

## ● Output:

```
PS C:\Users\priyush\Downloads\python> docker build -t python .
[+] Building 60.9s (10/10) FINISHED
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 511B
=> [internal] load metadata for docker.io/library/python:3.9-slim
=> [internal] load build context
=> => transferring context: 1.31kB
=> [1/5] FROM docker.io/library/python:3.9-slim@sha256:8450dc652621a10cdd0428ba02527bca009013f343a9262996c 41.6s
=> => resolve docker.io/library/python:3.9-slim@sha256:8450dc652621a10cdd0428ba02527bca009013f343a9262996c 0.0s
=> => sha256:8450dc652621a10cdd0428ba02527bca009013f343a9262996cac76a52123611 1.86kB / 1.86kB
=> => sha256:2adc70122c1c77b4ce149129c27ae427e119578c28bc6fc9e8909866c582bd21 1.37kB / 1.37kB
=> => sha256:bf997dc3a626e62a534049a67c7fb755e0583be8c3758aafa98d32489f3c71cc9 6.91kB / 6.91kB
=> => sha256:648e0aadf75ac2ef63c5390adc6dc14fde37a5ad88c2870ea604df0a9c0eb4e5 29.12MB / 29.12MB
=> => sha256:81f178b24f84998e2b94c64ab8d52a8bab34bce568876b405c5aa1cacb757465 3.50MB / 3.50MB
=> => sha256:8aedb91b29331a6e5c70d13f1ab8690871276de36737cb3c3ecf6f683ee24f86 16.94MB / 16.94MB
=> => sha256:b0a28292637aebfcd7c1f9f4ebbbd53b8831185b5a5379ddb9371183694cfa6c 246B / 246B
=> => sha256:e3aec7e12830791d8bcd2e78876338ab7b6e0e62a23f45781c9d232894473690 3.13MB / 3.13MB
=> => extracting sha256:648e0aadf75ac2ef63c5390adc6dc14fde37a5ad88c2870ea604df0a9c0eb4e5 8.1s
=> => extracting sha256:81f178b24f84998e2b94c64ab8d52a8bab34bce568876b405c5aa1cacb757465 0.6s
=> => extracting sha256:8aedb91b29331a6e5c70d13f1ab8690871276de36737cb3c3ecf6f683ee24f86 3.9s
=> => extracting sha256:e3aec7e12830791d8bcd2e78876338ab7b6e0e62a23f45781c9d232894473690 1.1s
=> [3/5] COPY app.py requirements.txt /app/
=> [4/5] COPY templates /app/templates
=> [5/5] RUN pip install --no-cache-dir -r requirements.txt
=> exporting to image
=> => exporting layers
=> => writing image sha256:7cfad6ada9f0256dbc3dae4d0bf3f9be0656555fb7e11014e9323be9377882fc
=> => naming to docker.io/library/python
```

### What's Next?

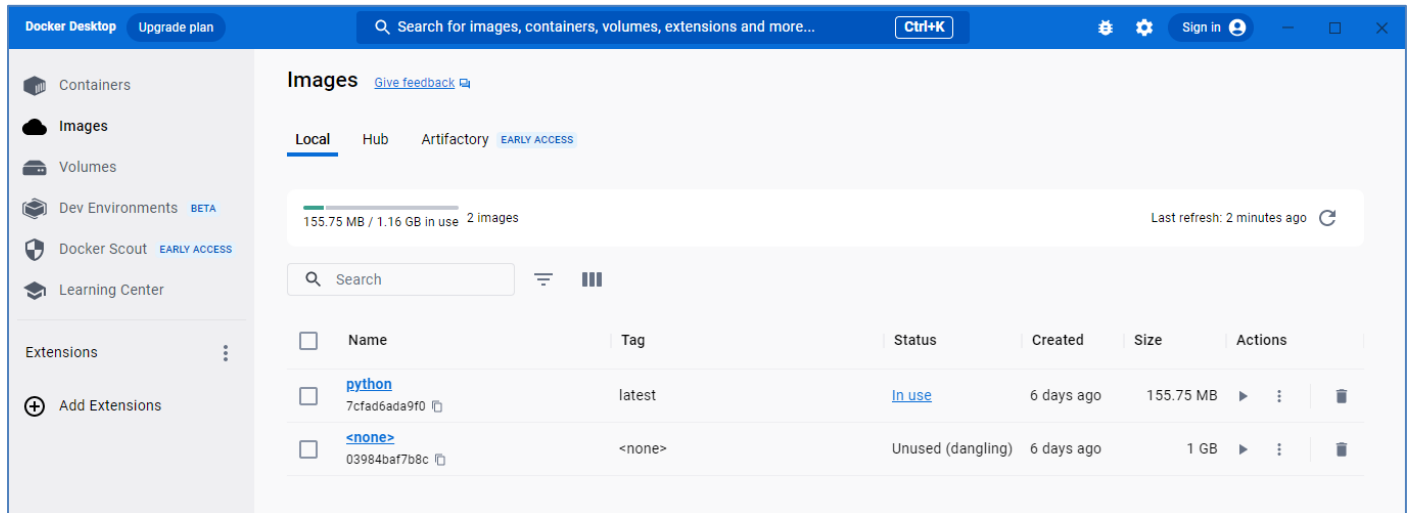
View summary of image vulnerabilities and recommendations → `docker scout quickview`

```
PS C:\Users\priyush\Downloads\python> docker run -d -p 5000:5000 python:latest
a387ba5ece0d4c9269f58684b780256e596be75e05e1bc5d6b27002654c3f570
```

```
PS C:\Users\priyush\Downloads\python> docker ps
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
a387ba5ece0d	python:latest	"python app.py"	9 seconds ago	Up 5 seconds	0.0.0.0:5000->5000/tcp	intelligent_germain

```
PS C:\Users\priyush\Downloads\python>
```



Docker Desktop Upgrade plan

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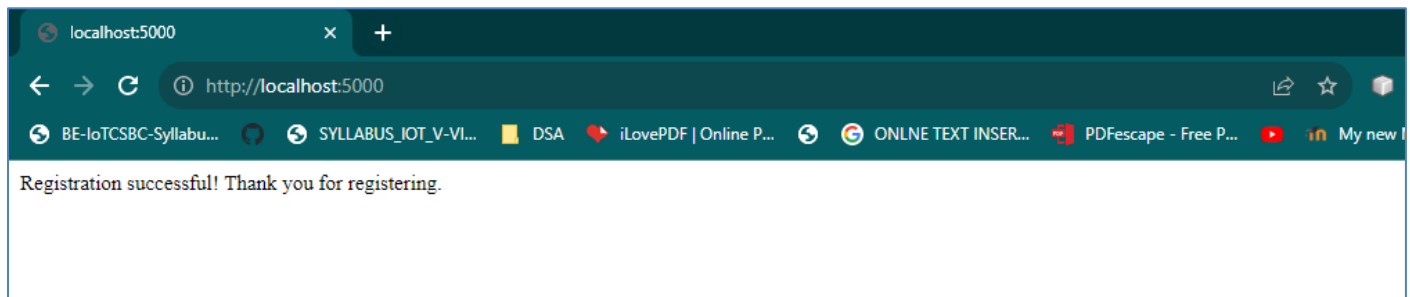
<input type="checkbox"/>	Name	Tag	Status	Created	Size	Actions
<input type="checkbox"/>	<a href="#">python</a> 7cfad6ada9f0	latest	<a href="#">In use</a>	6 days ago	155.75 MB	<a href="#">▶</a> <a href="#">⋮</a> <a href="#">🗑</a>
<input type="checkbox"/>	<a href="#">&lt;none&gt;</a> 03984baf7b8c	<none>	Unused (dangling)	6 days ago	1 GB	<a href="#">▶</a> <a href="#">⋮</a> <a href="#">🗑</a>

## User Registration Form

Name:

Email:

Age:



localhost:5000

http://localhost:5000

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Registration successful! Thank you for registering.