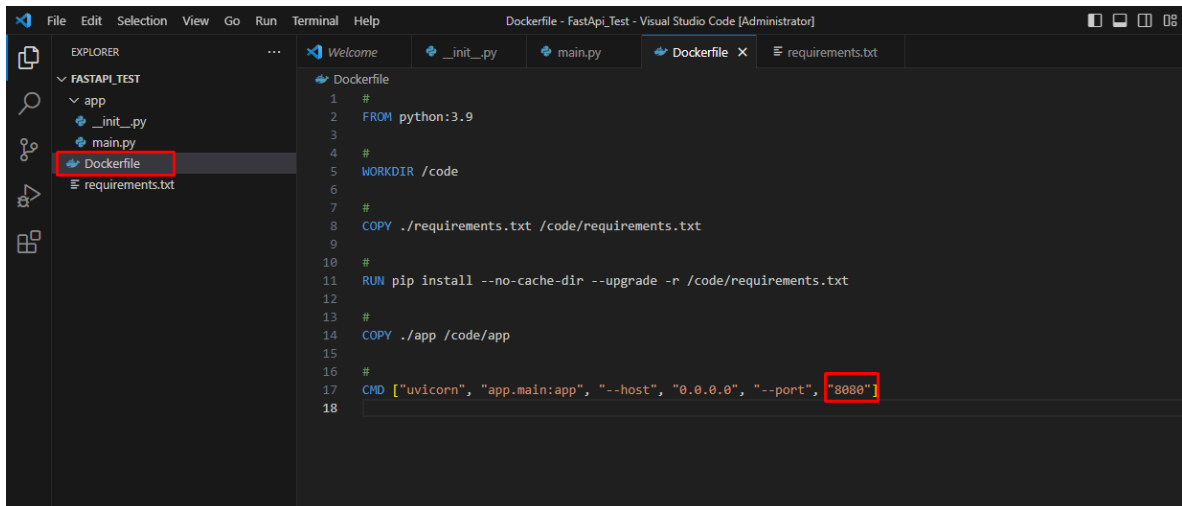


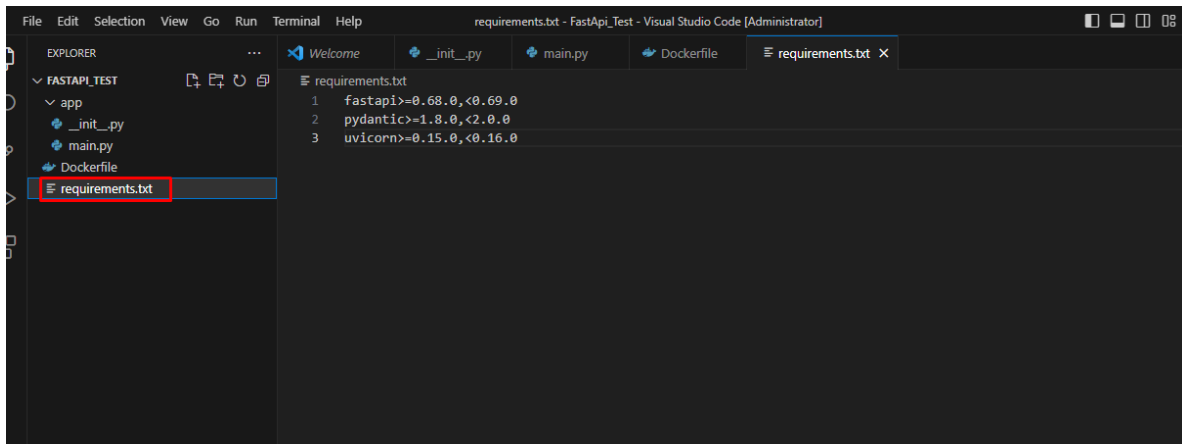
This screenshot shows the Visual Studio Code editor with the 'main.py' file open. The Explorer sidebar on the left shows the project structure: 'FASTAPI\_TEST' containing 'app', which contains '\_init\_.py', 'main.py', 'Dockerfile', and 'requirements.txt'. The 'main.py' file is selected in the Explorer and its content is displayed in the editor. The code is a FastAPI application with two endpoints: a root endpoint returning 'Hello: World' and an items endpoint returning item details.

```
1 from typing import Union
2
3 from fastapi import FastAPI
4
5 app = FastAPI()
6
7
8 @app.get("/")
9 def read_root():
10     return {"Hello": "World"}
11
12
13 @app.get("/items/{item_id}")
14 def read_item(item_id: int, q: Union[str, None] = None):
15     return {"item_id": item_id, "q": q}
16
```



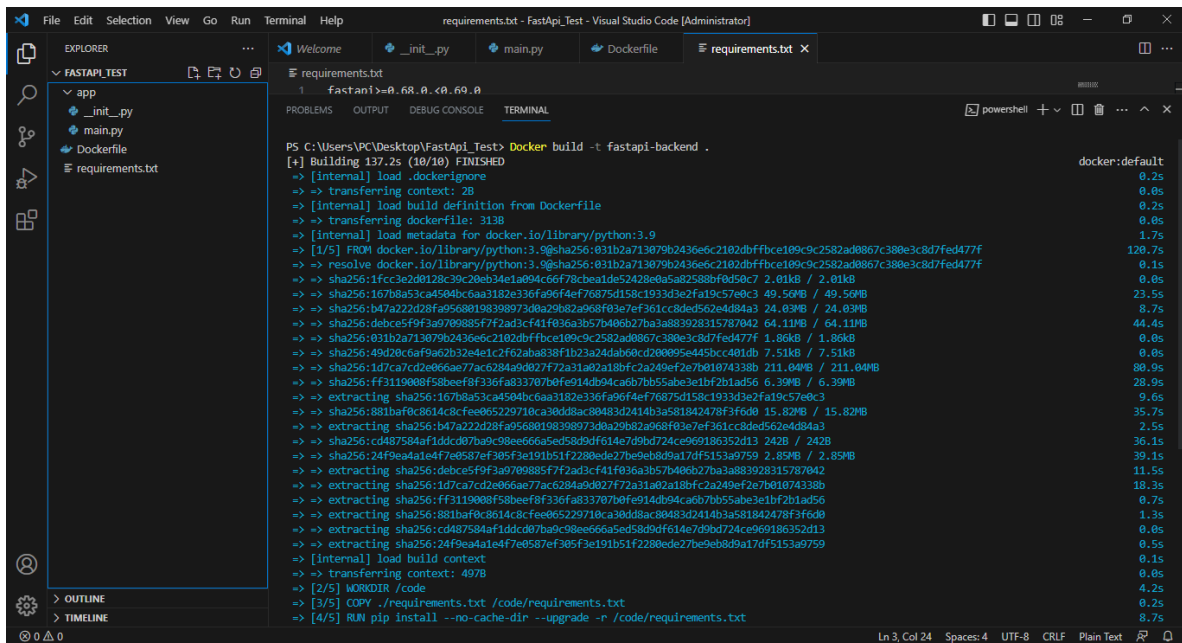
This screenshot shows the Visual Studio Code editor with the 'Dockerfile' file open. The Explorer sidebar on the left shows the project structure, with 'Dockerfile' selected. The Dockerfile content is displayed in the editor, showing the configuration for a Docker container, including the base image (python:3.9), working directory, requirements file, and the command to run the application using uvicorn. The port '8080' is highlighted in the CMD instruction.

```
1 #
2 FROM python:3.9
3
4 #
5 WORKDIR /code
6
7 #
8 COPY ./requirements.txt /code/requirements.txt
9
10 #
11 RUN pip install --no-cache-dir --upgrade -r /code/requirements.txt
12
13 #
14 COPY ./app /code/app
15
16 #
17 CMD ["uvicorn", "app.main:app", "--host", "0.0.0.0", "--port", "8080"]
18
```



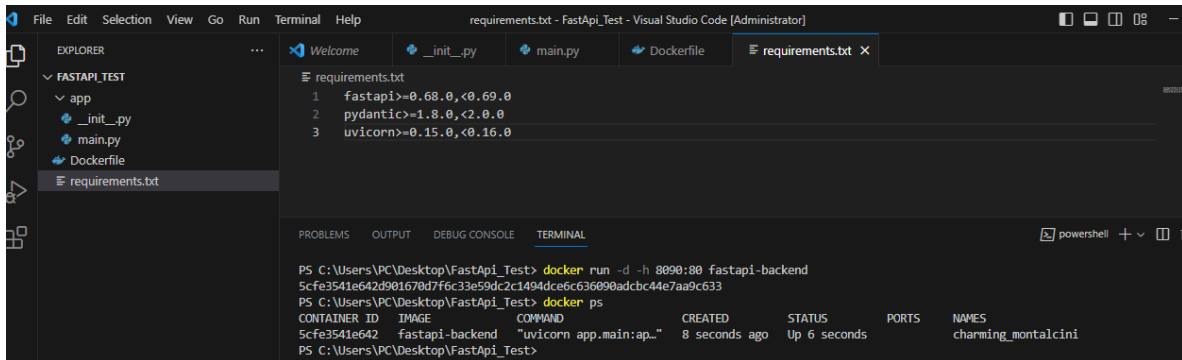
This screenshot shows the Visual Studio Code editor with the 'requirements.txt' file open. The Explorer sidebar on the left shows the project structure, with 'requirements.txt' selected. The requirements.txt content is displayed in the editor, listing the dependencies for the application: fastapi, pydantic, and uvicorn with their respective version constraints.

```
1 fastapi>=0.68.0,<0.69.0
2 pydantic>=1.8.0,<2.0.0
3 uvicorn>=0.15.0,<0.16.0
```



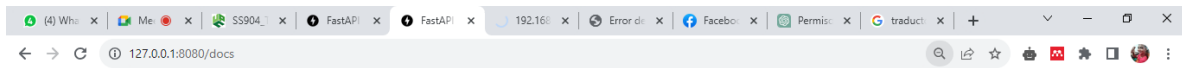
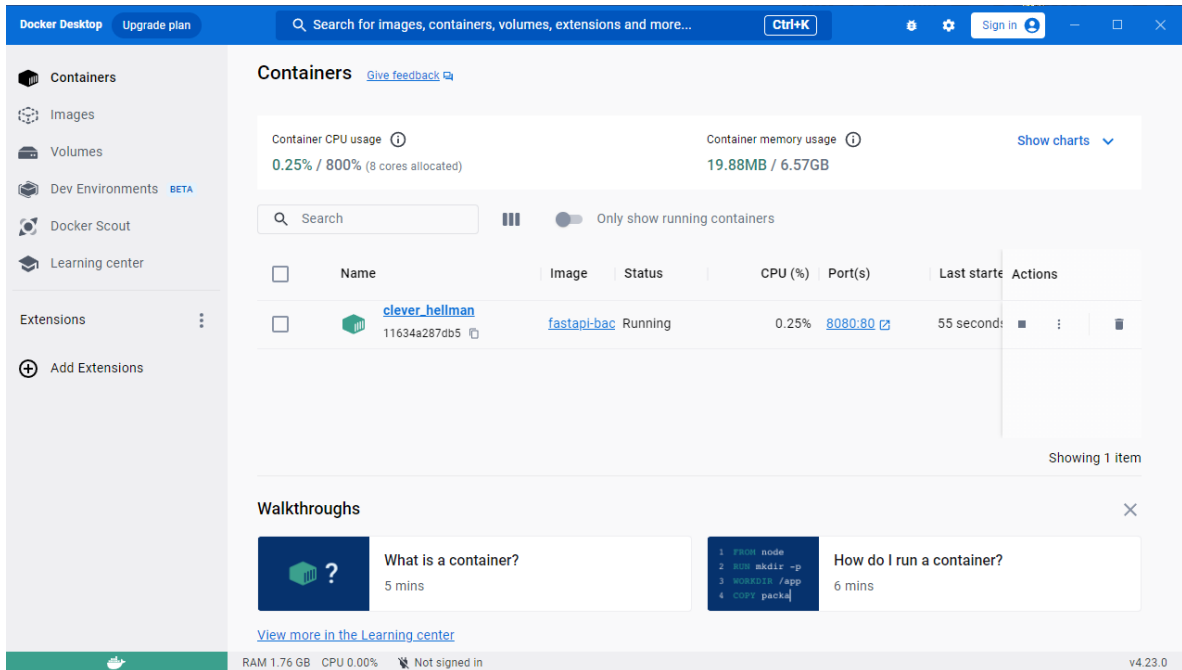
The screenshot shows the Visual Studio Code interface with the Explorer, Search, and Run and Debug panels. The Explorer panel shows the project structure for 'FASTAPI\_TEST', including 'app', 'requirements.txt', and 'Dockerfile'. The Search panel shows the contents of 'requirements.txt'. The Run and Debug panel shows the Docker build process for the 'fastapi-backend' service. The terminal output shows the build progress, including the installation of dependencies and the creation of the Docker image.

```
PS C:\Users\PC\Desktop\FastApi_Test> Docker build -t fastapi-backend .
[+] Building 137.2s (10/10) FINISHED
=> [internal] load .dockerignore
=> transferring context: 2B
=> [internal] load build definition from Dockerfile
=> transferring dockerfile: 313B
=> [internal] load metadata for docker.io/library/python:3.9
[1/5] FROM docker.io/library/python:3.9sha256:031b2a713079b2436e6c2102dbffbc109c9c2582ad0867c380e3c8d7fed477f 120.7s
=> resolve docker.io/library/python:3.9sha256:031b2a713079b2436e6c2102dbffbc109c9c2582ad0867c380e3c8d7fed477f 0.1s
=> sha256:1fcc3e2d0128c30c20eb34e1a094c6f78cbe1de52428e0a5a82588bf0d50c7 2.01kB / 2.01kB 0.0s
=> sha256:167b8a53ca4594bc6aa3182e336fa96f4ef76875d158c1933d3e2fa19c57e0c3 40.50MB / 49.50MB 23.5s
=> sha256:b47a22d28fa956801983989730ba2982a968f03e7ef361cc8ded562e4d84a3 24.03MB / 24.03MB 8.7s
=> sha256:debce5f9f3a9709885f7f2ad3cf41f036a3b57b406b27ba3a883928315787042 64.11MB / 64.11MB 44.4s
=> sha256:031b2a713079b2436e6c2102dbffbc109c9c2582ad0867c380e3c8d7fed477f 1.86kB / 1.86kB 0.0s
=> sha256:49d20c6af9a62b32e4e1c2fe2aba838f1b23a24ab60cd280095e445bcc481db 7.51kB / 7.51kB 0.0s
=> sha256:1d7ca7cd2e066ae77ac6284a9d027f72a31a02a18bf32a249ef2e7b01074338b 211.04MB / 211.04MB 80.9s
=> sha256:ff311908f58bee8f336fa833707b0fe914db94ca6b7b55abe3e1bf2b1ad56 6.39MB / 6.39MB 28.9s
=> extracting sha256:167b8a53ca4594bc6aa3182e336fa96f4ef76875d158c1933d3e2fa19c57e0c3 9.6s
=> sha256:a81ba90c614c8cfe065229710ca30d8ac80483d9414b3a581842478f3f6d0 15.82MB / 15.82MB 35.7s
=> extracting sha256:b47a22d28fa956801983989730ba2982a968f03e7ef361cc8ded562e4d84a3 2.5s
=> sha256:cd487584af1ddcd07ba9c98ee66a5ed58d9df614e7d9bd724ce969186352d13 242B / 242B 36.1s
=> sha256:24f9ea4a1e4f7e0587ef305f3e191b51f228ede27be9eb8d9a17df5153a9759 2.85MB / 2.85MB 39.1s
=> extracting sha256:debce5f9f3a9709885f7f2ad3cf41f036a3b57b406b27ba3a883928315787042 11.5s
=> sha256:1d7ca7cd2e066ae77ac6284a9d027f72a31a02a18bf32a249ef2e7b01074338b 10.3s
=> extracting sha256:ff311908f58bee8f336fa833707b0fe914db94ca6b7b55abe3e1bf2b1ad56 0.7s
=> extracting sha256:881ba90c614c8cfe065229710ca30d8ac80483d9414b3a581842478f3f6d0 1.3s
=> extracting sha256:cd487584af1ddcd07ba9c98ee66a5ed58d9df614e7d9bd724ce969186352d13 0.0s
=> extracting sha256:24f9ea4a1e4f7e0587ef305f3e191b51f228ede27be9eb8d9a17df5153a9759 0.5s
=> [internal] load build context
=> transferring context: 497B
=> [2/5] WORKDIR /code
[3/5] COPY ./requirements.txt /code/requirements.txt
[4/5] RUN pip install --no-cache-dir --upgrade -r /code/requirements.txt
```



The screenshot shows the Visual Studio Code interface with the Explorer, Search, and Run and Debug panels. The Explorer panel shows the project structure for 'FASTAPI\_TEST', including 'app', 'requirements.txt', and 'Dockerfile'. The Search panel shows the contents of 'requirements.txt'. The Run and Debug panel shows the Docker run command and the resulting container information.

```
PS C:\Users\PC\Desktop\FastApi_Test> docker run -d -h 8090:80 fastapi-backend
5cfe3541e642d901670d7f6c33e59dc2c1494dce6c636090adcb44e7aa9c633
PS C:\Users\PC\Desktop\FastApi_Test> docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS      PORTS      NAMES
5cfe3541e642   fastapi-backend   "uvicorn app.main:ap..."   8 seconds ago   Up 6 seconds   8090->8090   charming_montalcini
PS C:\Users\PC\Desktop\FastApi_Test>
```



## FastAPI 0.100.0 (OAS3)

OpenAPI JSON

### default

GET	/	Read Root
GET	/items/{item_id}	Read Item

### Schemas

HTTPValidationError >

ValidationError >