

```
(venv) akash_k@MSI:~$ ls
docker-fastapi-test
(venv) akash_k@MSI:~$ cd docker-fastapi-test
(venv) akash_k@MSI:~/docker-fastapi-test$ ls
Dockerfile  README.md  app  docker-compose.yml  requirements.txt  venv
(venv) akash_k@MSI:~/docker-fastapi-test$ cat Dockerfile
# Use official Python image
FROM python:3.9-slim

# Set working directory
WORKDIR /app

# Copy requirements first (for caching)
COPY requirements.txt .

# Install dependencies
RUN pip install --no-cache-dir -r requirements.txt

# Copy application code
COPY . .

# Expose the FastAPI port
EXPOSE 8000

# Command to run the application
CMD ["uvicorn", "app.main:app", "--host", "0.0.0.0", "--port", "8000"]
(venv) akash_k@MSI:~/docker-fastapi-test$ |
```

```
akash_k@MSI: ~/docker-fastapi-test$ ls
Dockerfile  README.md  app  docker-compose.yml  requirements.txt  venv
(venv) akash_k@MSI:~/docker-fastapi-test$ cat Dockerfile
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# Command to run the application
CMD ["uvicorn", "app.main:app", "--host", "0.0.0.0", "--port", "8000"]
(venv) akash_k@MSI:~/docker-fastapi-test$ cat docker-compose.yml
version: '3.8'

services:
  fastapi:
    build:
      context: .
      dockerfile: Dockerfile
    ports:
      - "8000:8000"
    volumes:
      - fastapi-data:/app/app/data
    container_name: fastapi-app

volumes:
  fastapi-data:
    name: fastapi-data
(venv) akash_k@MSI:~/docker-fastapi-test$ |
```

```
(venv) akash_k@MSI:~/docker-fastapi-test$ docker-compose up --build
WARN[0000] /home/akash_k/docker-fastapi-test/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
#1 [internal] load local bake definitions
#1 reading from stdin 547B done
#1 DONE 0.0s

#2 [internal] load build definition from Dockerfile
#2 transferring dockerfile: 448B done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/library/python:3.9-slim
#3 ...

#4 [auth] library/python:pull token for registry-1.docker.io
#4 DONE 0.0s

#3 [internal] load metadata for docker.io/library/python:3.9-slim
#3 DONE 2.1s

#5 [internal] load .dockerignore
#5 transferring context: 2B done
#5 DONE 0.0s

#6 [1/5] FROM docker.io/library/python:3.9-slim@sha256:914169c7c8398b1b90c0b0ff921c8027445e39d7c25dc440337e56ce0f2566e6
#6 resolve docker.io/library/python:3.9-slim@sha256:914169c7c8398b1b90c0b0ff921c8027445e39d7c25dc440337e56ce0f2566e6 0.0s done
#6 DONE 0.0s

#7 [internal] load build context
#7 transferring context: 198.09kB 0.1s done
#7 DONE 0.1s

#8 [2/5] WORKDIR /app
#8 CACHED
```

#10 CACHED

#11 [5/5] COPY . .

#11 DONE 0.5s

#12 exporting to image

#12 exporting layers

#12 exporting layers 1.3s done

#12 exporting manifest sha256:110e555f69f95326d1fe4c3468de58e50cc67267eb4fff668f436001e16022ce0 0.0s done

#12 exporting config sha256:9320051f30a8842f28bab6d61d9b2c95d7ee5187a19c85df8ec45c7ca0c768de 0.0s done

#12 exporting attestation manifest sha256:3928df9509e1a09cc001f56dde3e0f948ed08f4793c9da0255dfe6dc322722f0 0.0s done

#12 exporting manifest list sha256:9e567af63e9889b7dc18ab73bb4bbdf77f27635bd38185dd25836f57c5bad8ae 0.0s done

#12 naming to docker.io/library/docker-fastapi-test-fastapi:latest done

#12 unpacking to docker.io/library/docker-fastapi-test-fastapi:latest

#12 unpacking to docker.io/library/docker-fastapi-test-fastapi:latest 0.4s done

#12 DONE 1.9s

#13 resolving provenance for metadata file

#13 DONE 0.0s

[+] Running 2/2

✓docker-fastapi-test-fastapi Built

0.0s

✓Container fastapi-app Recreated

0.3s

Attaching to fastapi-app

fastapi-app | INFO: Started server process [1]

fastapi-app | INFO: Waiting for application startup.

fastapi-app | INFO: Application startup complete.

fastapi-app | INFO: Started server process [1]

fastapi-app | INFO: Waiting for application startup.

fastapi-app | INFO: Application startup complete.

fastapi-app | INFO: Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)

FastAPI

0.1.0

OAS3

/openapi.json

default

GET	/	Index	✓
GET	/users	Get Users	✓
POST	/users	User Create	✓

Schemas

BaseResponse	>
HTTPValidationError	>
UserIn	>

default

GET / Index

Index route for our application

Parameters

No parameters

Execute Clear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:8000/' \
-H 'accept: application/json'
```

Request URL

```
http://localhost:8000/
```

Server response

Code

Details

200

Response body

```
{
  "message": "Hello from FastAPI ;)"
}
```

Download

Response headers

POST **/users** User Create

Add user data to json file

Parameters

No parameters

Cancel

Reset

Request body required

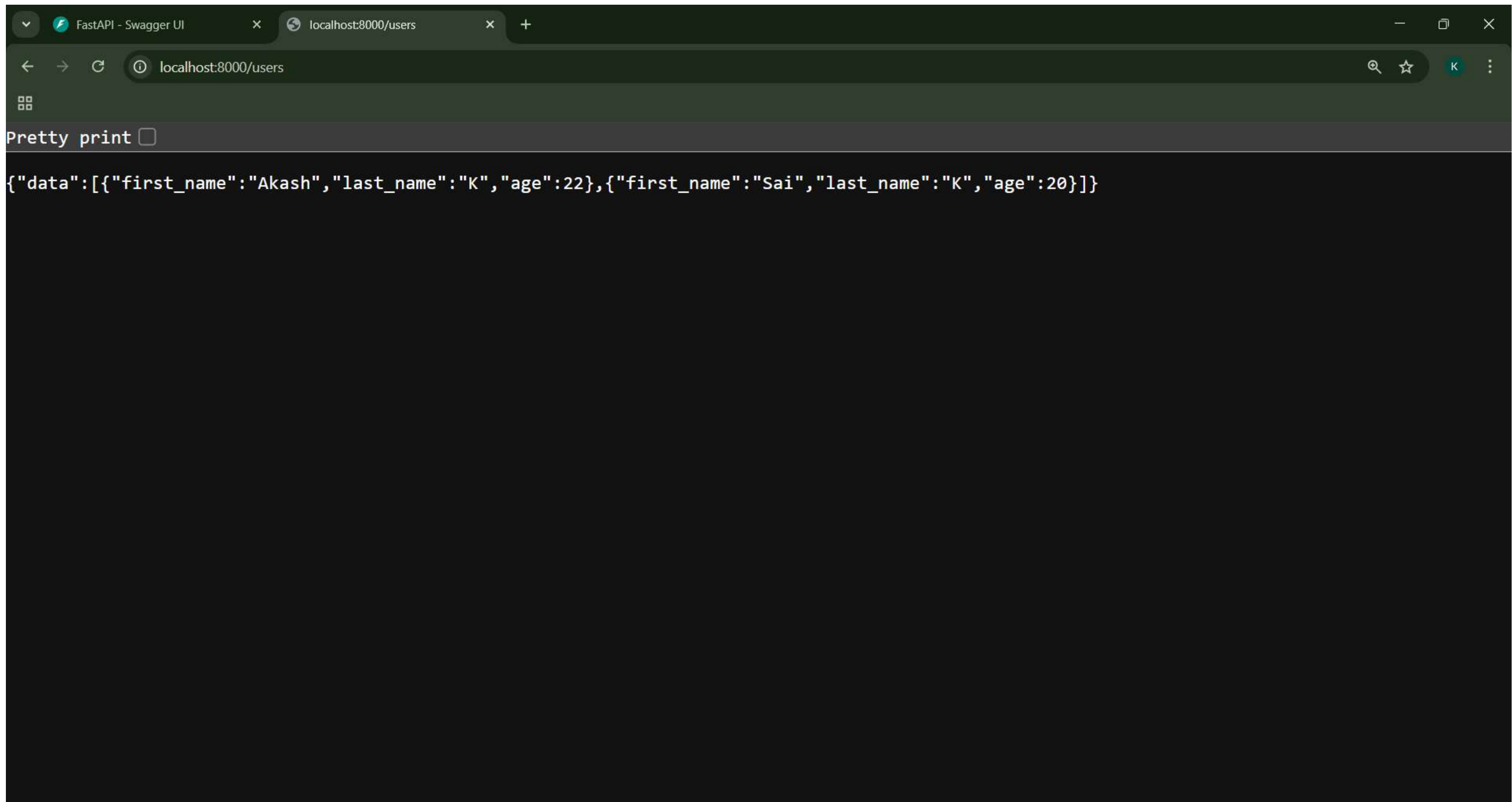
application/json

```
{
  "first_name": "Sai",
  "last_name": "K",
  "age": 20
}
```

Execute

Clear

Responses



✓ Container fastapi-app Recreated
0.3s

Attaching to fastapi-app

```
fastapi-app | INFO:      Started server process [1]
fastapi-app | INFO:      Waiting for application startup.
fastapi-app | INFO:      Application startup complete.
fastapi-app | INFO:      Started server process [1]
fastapi-app | INFO:      Waiting for application startup.

fastapi-app | INFO:      Application startup complete.
fastapi-app | INFO:      Uvicorn running on http://0.0.0.0:8000 (Press CTRL+C to quit)
fastapi-app | INFO:      172.18.0.1:48128 - "GET /docs HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:48128 - "GET /docs HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:48128 - "GET /openapi.json HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:48128 - "GET /openapi.json HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:48132 - "GET /docs HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:48132 - "GET /docs HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:48132 - "GET /openapi.json HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:48132 - "GET /openapi.json HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:52208 - "GET /docs HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:52208 - "GET /docs HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:52208 - "GET /openapi.json HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:52208 - "GET /openapi.json HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:52210 - "GET / HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:48100 - "POST /users HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:48100 - "POST /users HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:44558 - "GET /user HTTP/1.1" 404 Not Found
fastapi-app | INFO:      172.18.0.1:44558 - "GET /user HTTP/1.1" 404 Not Found
fastapi-app | INFO:      172.18.0.1:44558 - "GET /favicon.ico HTTP/1.1" 404 Not Found
fastapi-app | INFO:      172.18.0.1:44558 - "GET /favicon.ico HTTP/1.1" 404 Not Found
fastapi-app | INFO:      172.18.0.1:44558 - "GET /users HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:44558 - "GET /users HTTP/1.1" 200 OK
```

```
akash_k@MSI: ~/docker-fastapi$ docker-compose down
fastapi-app | INFO:      172.18.0.1:44558 - "GET /users HTTP/1.1" 200 OK
fastapi-app | INFO:      172.18.0.1:44558 - "GET /users HTTP/1.1" 200 OK
Gracefully Stopping... press Ctrl+C again to force
Container fastapi-app Stopping
fastapi-app | INFO:      Shutting down
fastapi-app | INFO:      Shutting down
fastapi-app | INFO:      Waiting for application shutdown.
fastapi-app | INFO:      Application shutdown complete.
fastapi-app | INFO:      Waiting for application shutdown.
fastapi-app | INFO:      Application shutdown complete.
fastapi-app | INFO:      Finished server process [1]
fastapi-app | INFO:      Finished server process [1]
Container fastapi-app Stopped
(venv) akash_k@MSI:~/docker-fastapi-test$ docker-compose down
WARN[0000] /home/akash_k/docker-fastapi-test/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
[+] Running 2/2
  ✓ Container fastapi-app Removed 0.0s
  ✓ Network docker-fastapi-test_default Removed 0.4s
(venv) akash_k@MSI:~/docker-fastapi-test$ docker-compose up --build
WARN[0000] /home/akash_k/docker-fastapi-test/docker-compose.yml: the attribute `version` is obsolete, it will be ignored, please remove it to avoid potential confusion
#1 [internal] load local bake definitions
#1 reading from stdin 547B done
#1 DONE 0.0s

#2 [internal] load build definition from Dockerfile
#2 transferring dockerfile: 448B 0.0s done
#2 DONE 0.0s

#3 [internal] load metadata for docker.io/library/python:3.9-slim
#3 ...

#4 [auth] library/python:pull token for registry-1.docker.io
#4 DONE 0.0s

#3 [internal] load metadata for docker.io/library/python:3.9-slim
#3 DONE 2.0s

#5 [internal] load .dockerignore
#5 transferring context: 2B done
```

```
}  
  ]  
}
```

POST /users User Create

Add user data to json file

Parameters

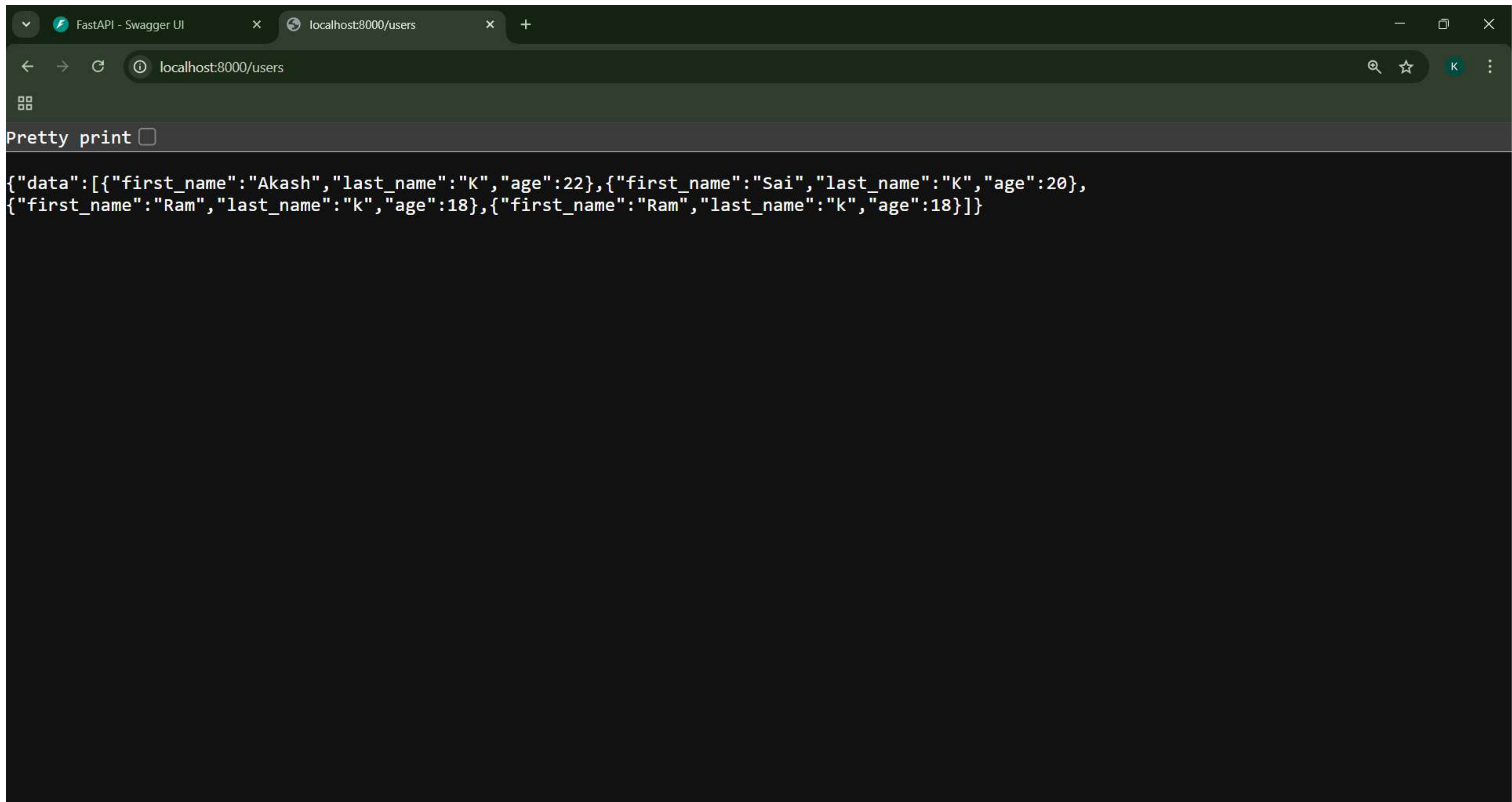
CancelReset

No parameters

Request body required

application/json

```
{  
  "first_name": "Ram",  
  "last_name": "k",  
  "age": 18  
}
```





akash5507

▼



Ask Gordon

BETA



Containers



Images



Volumes



Builds



Models

BETA



MCP Toolkit

BETA



Docker Hub



Docker Scout



Extensions

Containers

Give feedback

↗

View all your running containers and applications.

Learn more

↗

Container CPU usage

i

0.24%

/

1600%

(16 CPUs available)

Container memory usage

i

21.92MB

/

7.43GB

Show charts



Search



Only show running containers

Delete



Name

Container ID

Image

Port(s)

CPU (%)

Last started

Actions



docker-fastapi-test

-

-

-

0.24%

10 minutes ago



Selected 1 of 1

Walkthroughs



Multi-container applications

8 mins

\$ docker init

Containerize your application

3 mins

View more in the Learning center



Engine running



RAM 1.65 GB

CPU 0.06%


Disk: 1.99 GB used (limit 1006.85 GB)

>_ Terminal





v4.44.2





 akash5507


 Ask Gordon BETA


 Containers

 Images

 Volumes

 Builds

 Models BETA

 MCP Toolkit BETA

 Docker Hub

 Docker Scout

 Extensions


Images [Give feedback](#)


View and manage your local and Docker Hub images. [Learn more](#)

Local

My Hub

200.42 MB / 839 MB in use 1 images

Last refresh: 53 minutes ago 

 Search



Name

Tag

Image ID

Created

Size

Actions



docker-fastapi-test-fastapi

latest

3ea865591407

15 minutes ag

263.57 MB



Walkthroughs



1 FROM node
2 RUN mkdir -p
3 WORKDIR /app
4 COPY packa

How do I run a container?

6 mins



Run Docker Hub images

5 mins

[View more in the Learning center](#)



Engine running




RAM 1.66 GB CPU 0.63% Disk: 1.99 GB used (limit 1006.85 GB)

>_ Terminal




v4.44.2





 akash5507


 Ask Gordon BETA

 Containers


 Images


 **Volumes**


 Builds

 Models BETA



 MCP Toolkit BETA

 Docker Hub

 Docker Scout

 Extensions

Volumes / fastapi-data

 **fastapi-data** 

In use

Created

2 hours ago



Import



Stored data

Container in-use

Exports

Name 

Size

Last modified

Mode

 info.txt

36 Bytes

17 hours ago

-rw-r--r--

 users.json

340 Bytes

9 minutes ago

-rw-r--r--

