

CRUD



Create

POST

/posts

```
@app.post("/posts")
```

Read

GET

GET

/posts/:id

```
@app.get("/posts/{id}")
```

/posts

```
@app.get("/posts")
```

Update

PUT/PATCH

/posts/:id

```
@app.put("/posts/{id}")
```

Delete

DELETE

/posts/:id

```
@app.delete("/posts/{id}")
```



CRUD



Create

POST

always plural

/posts

```
@app.post("/posts")
```

Read

GET

GET

/posts/:id

```
@app.get("/posts/{id}")
```

/posts

```
@app.get("/posts")
```

→ For all posts

Update

PUT/PATCH

parse whole content

DELETE

/posts/:id

```
@app.put("/posts/{id}")
```

/posts/:id

```
@app.delete("/posts/{id}")
```

Delete



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EXPLORER ... main.py M .gitignore

OPEN EDITORS 1 UNSAVED main.py > get_posts

main.py M .gitignore

FASTAPI

- > __pycache__
- venv
- > Include
- > Lib
- > Scripts
- pyenv.cfg
- .gitignore

main.py M

```
10     title: str
11     content: str
12     published: bool = True
13     rating: Optional[int] = None
14
15
16 my_posts = [{"title": "title of post 1", "content": "content of post 1", "id": 1}, {
17     "title": "favorite foods", "content": "I like pizza", "id": 2}]
18
19
20 @app.get("/")
21 def root():
22     return {"message": "Hello World"}
23
24
25 @app.get("/posts")
26 def get_posts():
27     return {"data": my_posts}
28
29
30 @app.post("/posts")
31 def create_posts(post: Post):
32     print(post)
33     print(post.dict())
34     return {"data": post}
```

Ln 27, Col 29 (8 selected) Spaces: 4 UTF-8 CRLF Python

main* Python 3.9.5 64-bit ('venv': venv) 0 0 Connect

OUTLINE

TIMELINE

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EXPLORER ... main.py M .gitignore

Postman File Edit View Help

Home Workspaces Reports Explore Search Postman Invite Upgrade

My Workspace New Import GET http://127.0.0.1:8... POST http://127.0.0.1:8... + ... No Environment Save

Collections APIs Environments Mock Servers Monitors History

You don't have any collections Collections let you group related requests, making them easier to access and run.

Create Collection

http://127.0.0.1:8000/posts

GET http://127.0.0.1:8000/posts Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (4) Test Results Status: 200 OK Time: 12 ms Size: 260 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {  
2   "data": [  
3     {  
4       "title": "title of post 1",  
5       "content": "content of post 1",  
6       "id": 1  
7     },  
8     {  
9       "title": "favorite foods",  
10      "content": "I like pizza",  
11      "id": 2  
12    }  
13  ]  
14}  
15
```

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EXPLORER ... main.py M .gitignore

OPEN EDITORS 1 UNSAVED main.py > ...

main.py M .gitignore

FASTAPI _pycache_ venv Include Lib Scripts pyenv.cfg .gitignore main.py M

```
1 from typing import Optional
2 from fastapi import FastAPI
3 from fastapi.params import Body
4 from pydantic import BaseModel
5 from random import randrange
6
7 app = FastAPI()
8
9
10 class Post(BaseModel):
11     title: str
12     content: str
13     published: bool = True
14     rating: Optional[int] = None
15
16
17 my_posts = [{"title": "title of post 1", "content": "content of post 1", "id": 1}, {"title": "favorite foods", "content": "I like pizza", "id": 2}
18
19
20
21 @app.get("/")
22 def root():
23     return {"message": "Hello World"}
```

randrange: (start: int, stop: int | None = ..., step: int = ...) -> int

Choose a random item from range(start, stop[, step]).

This fixes the problem with randint() which includes the endpoint; in Python this is usually not what you want.

OUTLINE

TIMELINE

main* Python 3.9.5 64-bit ('venv': venv) 0 0 Connect

Ln 5, Col 29 Spaces: 4 UTF-8 CRLF Python

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```
23     return {"message": "Hello World"}  
24  
25  
26 @app.get("/posts")  
27 def get_posts():  
28     return {"data": my_posts}  
29  
30  
31 @app.post("/posts")  
32 def create_posts(post: Post):  
33     post_dict = post.dict()  
34     post_dict['id'] = randrange(0, 1000000)  
35     my_posts.append(post_dict)  
36     return {"data": post_dict}  
37
```

```
TERMINAL SQL CONSOLE PROBLEMS OUTPUT DEBUG CONSOLE

TypeError: list.append() takes exactly one argument (0 given)
WARNING: WatchGodReload detected file change in '['C:\\Users\\sanje\\Documents\\Courses\\fastapi\\main.py.4d1dca43f362bd42d8b85c486f089f1c.tmp']'. Reloading...
WARNING: WatchGodReload detected file change in '['C:\\Users\\sanje\\Documents\\Courses\\fastapi\\main.py.4d1dca43f362bd42d8b85c486f089f1c.tmp', 'C:\\Users\\sanje\\Documents\\Courses\\fastapi\\main.py']'. Reloading...
INFO:     Started server process [27040]
INFO:     Waiting for application startup.
INFO: Application startup complete.
```

cmd
Python

Ln 35, Col 31 Spaces: 4 UTF-8 CRLF Python

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My Workspace New Import GET http://127.0.0.1:8... POST http://127.0.0.1:8... + ... No Environment Save Send

Collections APIs Environments Mock Servers Monitors History

You don't have any collections Collections let you group related requests, making them easier to access and run.

Create Collection

POST http://127.0.0.1:8000/posts Params Authorization Headers (9) Body Pre-request Script Tests Settings Cookies Beautify

Body (Pretty, Raw, Preview, Visualize, JSON) Status: 200 OK Time: 16 ms Size: 249 B Save Response

Body (Pretty, Raw, Preview, Visualize, JSON) Status: 200 OK Time: 16 ms Size: 249 B Save Response

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EXPLORER Postman File Edit View Help

Home Workspaces Reports Explore Search Postman Invite Upgrade

My Workspace New Import GET http://127.0.0.1:8... POST http://127.0.0.1:8... + ... No Environment Save Send

Collections APIs Environments Mock Servers Monitors History

You don't have any collections Collections let you group related requests, making them easier to access and run.

Create Collection

http://127.0.0.1:8000/posts

GET http://127.0.0.1:8000/posts

Params Authorization Headers (7) Body Pre-request Script Tests Settings Cookies

Query Params

KEY	VALUE	DESCRIPTION	...	Bulk Edit
Key	Value	Description		

Body Cookies Headers (4) Test Results Status: 200 OK Time: 11 ms Size: 375 B Save Response

Pretty Raw Preview Visualize JSON

```
10     "content": "I like pizza",
11     "id": 2
12   },
13   {
14     "title": "top beaches in florida",
15     "content": "something something beaches",
16     "published": true,
17     "rating": 4,
18   }
19 ]
20 ]
```

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