

Step-by-Step **pythonApi** Project– python fastapi

1. Create the Project Folder

```
mkdir pythonApi  
cd pythonApi
```

2. Create an Empty **requirements.txt** (Initial)

```
touch requirements.txt
```

At this point, it's empty.

3. Install Required Libraries for FastAPI

Install FastAPI and Uvicorn globally using pip3:

```
pip3 install fastapi uvicorn[standard]
```

4. Freeze Installed Packages into **requirements.txt**

Now generate the list of installed packages and versions used:

```
pip3 freeze > requirements.txt
```

This will automatically write all your installed packages (like FastAPI, Uvicorn, etc.) to **requirements.txt**.

This ensures **anyone installing your project** later can just run:

```
pip3 install -r requirements.txt
```

and get the exact environment.

5. Create Your **main.py**

Still inside **pythonApi** folder:

Create a file called
`main.py`

Paste this FastAPI code:

```
from fastapi import FastAPI

app = FastAPI()

@app.get("/")
def read_root():
    return {"message": "Hello from pythonApi"}
```

Save and exit.

6. Run the API

```
uvicorn main:app --reload
```

Visit in browser:

- <http://127.0.0.1:8000>
- <http://127.0.0.1:8000/docs>