FastAPI Setup Guide

0. Install Python

Make sure Python is installed on your system before starting. You can check it with:
```
python --version
```

1. Create a Project Folder

Make a new folder anywhere on your system and open CMD inside it.

2. Create Virtual Environment

```
python -m venv venv_name
```

3. Create Project Files

Inside your environment/project folder, create two files:

- main.py

- requirements.txt

4. Add Dependencies to requirements.txt

```
fastapi==0.115.0
uvicorn==0.30.0
pydantic==2.9.0
```

5. Activate Virtual Environment

```
Scripts\activate
```

6. Install Required Packages

```
pip install -r requirements.txt
```

7. Write Code in main.py

```python
from fastapi import FastAPI

# Create FastAPI instance
app = FastAPI()

# Create a simple route
@app.get("/")
def read_root():
    return {"message": "Hello, FastAPI is working!"}
```

8. Run the FastAPI Application

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

9. Open in Browser

Go to http://127.0.0.1:8000 to see your API running.

Go to http://127.0.0.1:8000/docs for interactive API documentation.