

FastAPI Introduction

Is a web framework built on top of Starlette and Pydantic. It is supposed to be the fastest python web framework.

Docs: <https://fastapi.tiangolo.com/>

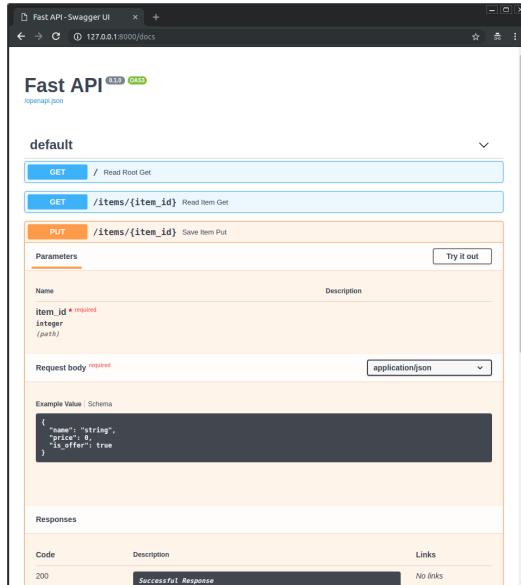
Github: [git@github.com:smamirov/fast-api-research.git](https://github.com/smamirov/fast-api-research.git)

Requirements

Python 3.7+ and an ASGI server such as Uvicorn or Hypercorn

Features

- Automatic docs to call and test APIs directly from the web browser



- Based on the Python 3.6 type declarations
- Editor support / Type hints
- Validation for data types

Installation

```
pip install fastapi
pip install "uvicorn[standard]"
```

Flask vs. FastAPI

	Flask	FastAPI
HTTP methods	<code>@app.route("/", methods = ["GET"])</code> <code>@app.route("/", methods = ["POST"])</code>	<code>@app.get("/")</code> <code>@app.post("/")</code>
Data validation	No data validation	In-built data validation feature
Error message display	Error messages displayed in HTML pages	Error messages displayed in JSON format
Asynchronous task support	No	Yes
Performance	Constrained in WSGI applications	Implements ASGI specifications
Documentation support	Manual	Automatic
Community support	Rich community support	Smaller community support