



Introduction to FastAPI

What is FastAPI

A Python framework to build APIs.

It is fast as it supports async programming.

It was launched in 2018, hence relatively new.

You need to use Python 3.6 and above to use Fast API.

Performance

You can say that it is a speed oriented framework, performance is priority.

Its speed is on par with NodeJS and GO.

It is a lot more performant as compared to DjangoRestFramework and Flask.

Flexibility

It is also more flexible as compare to DRF, as in DRF things need to be done in a certain way.

Fast API on the other hand is flexible, it does not restrict user to a particular code layout.

Other features

Fast API validates developers data type even in a deeply nested JSON requests.

Which means, when you are creating a schema for your API, you can also define the data types of every field if that field should be a string, integer or other data type.

We can also build GraphQL API using Fast API.

Fast API is built on standards like JSON, OAuth and Open API.

JSON standard means, the API by defaults returns data in JSON format which is the most recommended and popular way data representation in an API.

OAuth is the industry standard protocol for authorisation.

This makes open API more secure and robust.

OpenAPI is a standard to create REST APIs.

It is a set of documents which define how an API should be.

Faster to code and intuitive.

Much faster to build/develop an API as compared to other frameworks.

Intuitive because it has a great editor support, provides code completion so that it becomes easier to write code and errors are avoided during development.

Fast API provides editor support for VS code as well as PyCharm.

Production ready.

Can be used to create production ready APIs which could be deployed instantly.

Also has automatic interactive documentation so you do not have to write documentation manually. That saves a lot of time.