

How FastAPI Works

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1. FastAPI uses Python's type hints and Pydantic to automatically validate incoming data.
2. Routes are defined using decorators like `@app.get()`, `@app.post()`, etc.
3. It auto-generates Swagger UI and ReDoc for testing APIs.
4. Asynchronous support makes it suitable for high-concurrency systems.
5. FastAPI is built on Starlette (for web layer) and Pydantic (for data validation).
6. It supports dependency injection, background tasks, file uploads, and more.

Example:

```
from fastapi import FastAPI
```

```
app = FastAPI()
```

```
@app.get('/')
```

```
def read_root():
```

```
    return {'Hello': 'World'}
```