



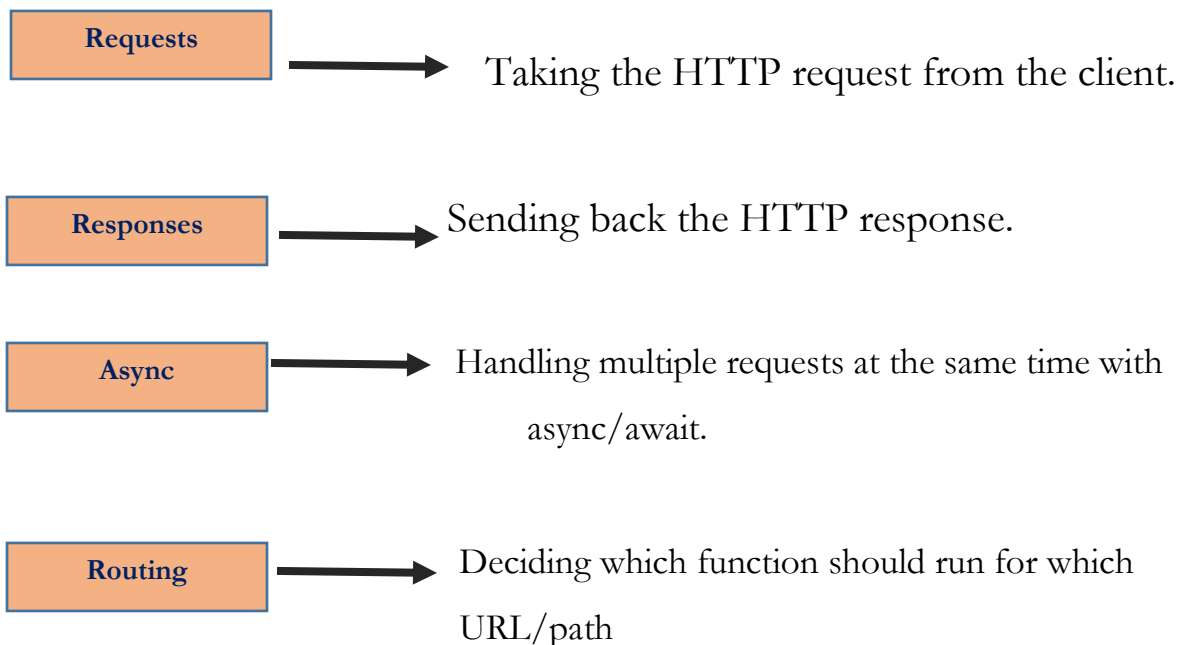
FastAPI is a modern, fast (high-performance), web framework for building APIs with Python based on standard Python type hints.

FastAPI framework, high performance, easy to learn, fast to code, ready for production

Test **passing** coverage **100%** pypi package **v0.116.1** python **3.8 | 3.9 | 3.10 | 3.11 | 3.12 | 3.13**



★ **starlette** handles the **core web stuff**
(requests, responses, async, routing, WebSockets).



```
from fastapi import FastAPI

app = FastAPI()

@app.get("/home")
def homepage():
    return {"message": "Welcome to Home!"}

@app.get("/about")
def aboutpage():
    return {"message": "This is About Page"}
```

WebSockets



Managing real-time communication (like chat apps).



Pydantic

Bringing schema and sanity to your data

Pydantic is the most widely used data validation library for Python.

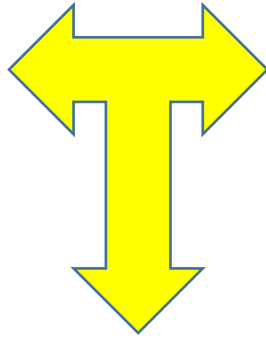
Pydantic handles the **core Validation, Conversion, Error Messages, Data Models**

Validation

Conversion

Error Messages

Data Models



Uvicorn

HOW WORK AND PIPELINE



SGI

ASGI>Starlette



```
POST/predict HTTP/1.1
Host: api.example./com
Content-Type :ML/json
Content-Length:45

{
  "feature1" :234.44
  "feature2":344.44
}
```

```
Request.method --->"POST"
Request.url      ---> "/predict"
Request.json()   ---> {"feature1 ":234.44
,"feature2":344.44}
```

"Prediction": YES

```
@app.post("/predict")
async def predict(data: InputData):
    result = await predict_async(data)
    return result
```

```
HTTP/1.1 2003 OK
Content-Type:ML/json
{ "prediction":YES}
```

