

First Steps with FastAPI



Reindert-Jan Ekker

@rjekker www.codesensei.nl



Overview



Create a FastAPI app

- Explore
- Run

Check result in browser

- REST Api
- Auto-generated documentation

Common Problems

FastAPI code execution

- Async



Demo



- Start a PyCharm project
- Install FastAPI
- Create a FastAPI app
- Run
- Inspect the result





Control flow is dictated by incoming HTTP Requests

An operation is only called if its URL is
requested.



```
python -m pip install "fastapi[all]"
```

Install FastAPI

Extra dependencies are installed using [all]

This includes the uvicorn server

Make sure to install in an active virtual environment

```
from fastapi import FastAPI
```

```
app = FastAPI()
```

Creating a FastAPI Application Object

The app object represents our REST service

```
@app.get("/date")  
  
def date():  
    """Return the current date/time."""  
    return {'date': datetime.now() }
```

Add an Operation

URLs should start with a slash

There is no connection between URL and function name

When a GET request comes in for /date, the function will be called

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from fastapi import FastAPI
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```
uvicorn my_project:app --reload
```

Running FastAPI Project

uvicorn is the HTTP server

my_project is the name of the python file containing the application object

app is the name of the application object inside that file

Resources



FastAPI documentation: <https://fastapi.tiangolo.com/>



Demo code: github.com/codesensei-courses/fastapi-fundamentals



Summary



Install FastAPI

Create and run a FastAPI app

Autogenerated documentation

Common Problems

FastAPI code execution



Up Next:
Serving Data with FastAPI

