Chapter 01: Getting Started with Fast API

- FastAPI-Book git:(main) x git add hello.txt
- FastAPI-Book git:(main) x git commit -m "Initial commit"
[main (root-commit) eda7e6c] Initial commit
  1 file changed, 0 insertions(+), 0 deletions(-)
  create mode 100644 hello.txt
- FastAPI-Book git:(main) echo "This is a new addition to the file" > hello.txt
- FastAPI-Book git:(main) x git status
On branch main
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
    modified:   hello.txt

no changes added to commit (use "git add" and/or "git commit -a")
- FastAPI-Book git:(main) x git diff hello.txt
- FastAPI-Book git:(main) x
diff --git a/hello.txt b/hello.txt
index e69de29..910b351 100644
--- a/hello.txt
+++ b/hello.txt
@@ -0,0 +1 @@
+This is a new addition to the file
(END)
<table>
<thead>
<tr>
<th>Package</th>
<th>Version</th>
</tr>
</thead>
<tbody>
<tr>
<td>cachetools</td>
<td>4.2.2</td>
</tr>
<tr>
<td>certifi</td>
<td>2021.5.30</td>
</tr>
<tr>
<td>chardet</td>
<td>4.0.0</td>
</tr>
<tr>
<td>google-auth</td>
<td>1.32.0</td>
</tr>
<tr>
<td>googleapis-common-protos</td>
<td>1.53.0</td>
</tr>
<tr>
<td>httplib2</td>
<td>0.19.1</td>
</tr>
<tr>
<td>idna</td>
<td>2.10</td>
</tr>
<tr>
<td>packaging</td>
<td>20.9</td>
</tr>
<tr>
<td>pip</td>
<td>21.1.2</td>
</tr>
<tr>
<td>protobuf</td>
<td>3.17.3</td>
</tr>
<tr>
<td>pyasn1</td>
<td>0.4.8</td>
</tr>
<tr>
<td>pyasn1-modules</td>
<td>0.2.8</td>
</tr>
<tr>
<td>pyparsing</td>
<td>2.4.7</td>
</tr>
<tr>
<td>pytz</td>
<td>2021.1</td>
</tr>
<tr>
<td>requests</td>
<td>2.25.1</td>
</tr>
<tr>
<td>rsa</td>
<td>4.7.2</td>
</tr>
<tr>
<td>setuptools</td>
<td>41.2.0</td>
</tr>
<tr>
<td>six</td>
<td>1.15.0</td>
</tr>
<tr>
<td>urllib3</td>
<td>1.26.5</td>
</tr>
<tr>
<td>wheel</td>
<td>0.33.1</td>
</tr>
</tbody>
</table>

WARNING: You are using pip version 21.1.2; however, version 21.2.4 is available.
todos source venv/bin/activate
(venv) → todos
(venv) → todos deactivate
→ todos
Chapter 02: Routing in FastAPI
### Parameters

No parameters

### Request body

Required

```json
{
  "id": 1,
  "item": "We're testing the interactive documentation!"
}
```

### Responses

**Curl**

```
Curl -X "POST" \\
'\http://127.0.0.1:8000/todo' \\
-H 'accept: application/json' \\
-H 'Content-Type: application/json' \\
-d '{
  "id": 1,
  "item": "We\'re testing the interactive documentation!"
}'
```

**Request URL**

`http://127.0.0.1:8000/todo`

**Server response**

<table>
<thead>
<tr>
<th>Code</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>201</td>
<td>Response body</td>
</tr>
</tbody>
</table>

```json
{
  "message": "Todo added successfully."
}
```
default

GET  / Welcome

GET  /todo  Retrieve Todo

POST  /todo  Add Todo

Parameters

No parameters

Request body  required

Example Value

```
{
  "id": 1,
  "text": "Example schema"
}
```

Responses

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Links</th>
</tr>
</thead>
<tbody>
<tr>
<td>200</td>
<td>Successful Response</td>
<td>No link</td>
</tr>
</tbody>
</table>
Chapter 03: Response Models and Error Handling

**Requests**

Curl
```
curl -X 'GET' \
  'http://127.0.0.1:8000/todo/12' \
  -H 'accept: application/json'
```

Request URL
```
http://127.0.0.1:8000/todo/12
```

Server response

<table>
<thead>
<tr>
<th>Code</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>404</td>
<td>Error: Not Found</td>
</tr>
</tbody>
</table>

Response body
```
{
  "detail": "Todo with supplied ID doesn't exist"
}
```

Response headers
# Chapter 04: Templating in FastAPI

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>loop.index</td>
<td>The current iteration of the loop (1 indexed)</td>
</tr>
<tr>
<td>loop.index0</td>
<td>The current iteration of the loop (0 indexed)</td>
</tr>
<tr>
<td>loop.revindex</td>
<td>The number of iterations from the end of the loop (1 indexed)</td>
</tr>
<tr>
<td>loop.revindex0</td>
<td>The number of iterations from the end of the loop (0 indexed)</td>
</tr>
<tr>
<td>loop.first</td>
<td>True if first iteration</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Variable</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>loop.last</td>
<td>True if last iteration</td>
</tr>
<tr>
<td>loop.length</td>
<td>The number of items in the sequence</td>
</tr>
<tr>
<td>loop.cycle</td>
<td>A helper function to cycle between a list of sequences</td>
</tr>
<tr>
<td>loop.depth</td>
<td>Indicates how deep in a recursive loop the rendering currently is; starts at level 1</td>
</tr>
<tr>
<td>loop.depth0</td>
<td>Indicates how deep in a recursive loop the rendering currently is; starts at level 0</td>
</tr>
<tr>
<td>loop.previtem</td>
<td>The item from the previous iteration of the loop; undefined during the first iteration</td>
</tr>
<tr>
<td>loop.nextitem</td>
<td>The item from the following iteration of the loop; undefined during the last iteration</td>
</tr>
<tr>
<td>loop.changed(*val)</td>
<td>True if previously called with a different value (or not called at all)</td>
</tr>
</tbody>
</table>
Packt Todo Application

Todos

1. Checkout Packt’s course portal.
2. Practice my learnings from this book
Chapter 05: Structuring FastAPI Applications

[Diagram showing user and event structures with endpoints and actions]
User

POST /user/signup  Sign User Up

POST /user/signin  Sign User In

Schemas

Body_sign_user_in_user_signin_post

Body_sign_user_up_user_signup_post
Chapter 06: Connecting to a Database

```python
INFO: Will watch for changes in these directories: ['/Users/youngestdev/Work/Building-Web-APIs-with-FastAPI-and-Python/ch06/planner']
INFO: Unicorn running on http://0.0.0.0:8080 (Press CTRL+c to quit)
INFO: Started reloader process [5663] using statreload
INFO: Started server process [5671]
INFO: Waiting for application startup.
2022-04-06 16:25:36,230 INFO sqlalchemy.engine.Engine PRAGMA main.table_info("event")
2022-04-06 16:25:36,230 INFO sqlalchemy.engine.Engine PRAGMA temp.table_info("event")
CREATE TABLE event (  
    tags JSON,  
    id INTEGER,  
    title VARCHAR NOT NULL,  
    image VARCHAR NOT NULL,  
    description VARCHAR NOT NULL,  
    location VARCHAR NOT NULL,  
    PRIMARY KEY (id)
)
2022-04-06 16:25:36,231 INFO sqlalchemy.engine.Engine [no key 0.00003s] ()
```
Chapter 07: Securing FastAPI Applications

---

The server generated these startup warnings when booting:
2022-04-24T14:45:42.677+01:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted.
2022-04-24T14:45:42.677+01:00: This server is bound to localhost. Remote systems will be unable to connect to this server.
2022-04-24T14:45:42.677+01:00: This server is bound to localhost. Remote systems will be unable to connect to this server.
2022-04-24T14:45:42.677+01:00: Soft limits for open file descriptors too low.
2022-04-24T14:45:42.677+01:00: recommendedMinimum: 64000
2022-04-24T14:45:42.677+01:00: currentValue: 10240

Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you and anyone you share the URL with. MongoDB may use this information to make product improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: `db.enableFreeMonitoring()`
To permanently disable this reminder, run the following command: `db.disableFreeMonitoring()`

---

mongo --port 27017

> use planner
> switched to db planner
> `db.users.find()`

```javascript
{ "_id" : ObjectId("6255d404b9b3931b51b3d9f9"), "email" : "reader@packt.com", "password" : "52b512%5xcVXXy3970D3eg3346bncodakWv1Vlqj6P11U1V2j1NGPa", "events" : [] }"```
```
{
  "access_token": "eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiI1..."
}
```

<table>
<thead>
<tr>
<th>User</th>
<th>62655d4b52b6386b8b11b5fb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Expires</td>
<td>datetime.datetime(2022, 4, 24, 15, 39, 16, 630218)</td>
</tr>
</tbody>
</table>

**POST /user/signin**

Sign User In

**Parameters**

No parameters

**Request body**

```
grant_type
string
patterns: password

username • required
string

password • required
string

scope
string

client_id
string

client_secret
string
```

**Responses**
## User

### Events

<table>
<thead>
<tr>
<th>Method</th>
<th>Endpoint</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>GET</td>
<td>/event/</td>
<td>Retrieve All Events</td>
</tr>
<tr>
<td>GET</td>
<td>/event/{id}</td>
<td>Retrieve Event</td>
</tr>
<tr>
<td>PUT</td>
<td>/event/{id}</td>
<td>Update Event</td>
</tr>
<tr>
<td>DELETE</td>
<td>/event/{id}</td>
<td>Delete Event</td>
</tr>
<tr>
<td>POST</td>
<td>/event/new</td>
<td>Create Event</td>
</tr>
</tbody>
</table>

**default**

**Schemas**

### Available authorizations

- **OAuth2/PasswordBearer (OAuth2, password)**
  - **User**
    - POST /user/signup
    - POST /user/signin
  - **Events**
    - GET /event/
    - GET /event/{id}
    - PUT /event/{id}
    - DELETE /event/{id}
    - POST /event/new
Event: Event Name

- Location: Location

Request URL
https://api.example.com/events

Server response

Code 200

Response body

```
{
  "message": "Event created successfully"
}
```

Response headers

```
Content-Type: application/json
Date: Mon, 16 May 2023 10:30:00 GMT
Server: FastAPI
```

Responses
Chapter 08: Testing FastAPI Applications

Unit testing with Pytest

(venv) → **planner git:(main) x** pytest tests/test_arithmetic_operations.py

---

platform darwin -- Python 3.8.2, pytest-7.1.2, pluggy-1.0.0
plugins: asyncio-0.18.3, anyio-3.5.0
asyncio: mode-auto
collected 4 items

tests/test_arithmetic_operations.py .... [100%]

---

(venv) → **planner git:(main) x**

---

platform darwin -- Python 3.8.2, pytest-7.1.2, pluggy-1.0.0
plugins: asyncio-0.18.3, anyio-3.5.0, cov-3.0.0
asyncio: mode-auto
collected 4 items

test_arithmetic_operations.py F... [100%]

---

def test_add():
    assert add(1, 1) == 2
E    assert 2 == 11
E    + where 2 = add(1, 1)

---

Failed test_arithmetic_operations.py:18: AssertionError: short test summary info

---

(venv) → **tests git:(main) x**
platform darwin -- Python 3.8.2, pytest-7.1.2, pluggy-1.0.0
plugins: asyncio-0.18.3, anyio-3.5.0
asyncio: mode=auto
collected 2 items

tests/test_login.py .. 2 passed in 0.52s

(test) → planner git:(main) → pytest tests/test_login.py

platform darwin -- Python 3.8.2, pytest-7.1.2, pluggy-1.0.0
plugins: asyncio-0.18.3, anyio-3.5.0
asyncio: mode=auto
collected 1 item

tests/test_login.py .. 1 passed in 0.28s

(test) → planner git:(main) →
default_client = <http.AsyncClient object at 0x104e8f4f0>

@pytest.mark.asyncio
def test_sign_user_in(default_client: http.AsyncClient) -> None:
    payload = {
        "username": "wronguser@puckt.com",
        "password": "testpassword"
    }

    headers = {
        "accept": "application/json",
        "Content-Type": "application/x-www-form-urlencoded"
    }

    response = await default_client.post("/user/signin", data=payload, headers=headers)

    assert response.status_code == 200

    assert 404 == 200

    # where 404 = «Response [404 Not Found]».status_code

e tests/test_login.py:41: AssertionError

Failed tests/test_login.py::test_sign_user_in - assert 404 == 200
1 failed, 1 passed in 0.34s
pytest

platform darwin -- Python 3.8.2, pytest-7.1.2, pluggy-1.0.0
plugins: aiosio-0.18.3, asynio-3.5.0
asyncio: mode=auto

collected 3 items

tests/test_routes.py ...

============================================= 3 passed in 0.04s =============================================

pytest

platform darwin -- Python 3.8.2, pytest-7.1.2, pluggy-1.0.0
plugins: aiosio-0.18.3, asynio-3.5.0
asyncio: mode=auto

collected 4 items

tests/test_routes.py ....

============================================= 4 passed in 0.04s =============================================
pytest

platform darwin -- Python 3.8.2, pytest-7.1.2, pluggy-0.10.0
rootdir: /Users/yourwebsite/Work/Building Web-APIs with FastAPI and Python/ch8/planner, configfile: pytest.ini
plugins: asyncio-0.18.3, anyio-3.5.0
asyncio: mode=auto
collected 5 items

tests/test_routes.py ......

5 passed in 0.05s

---

pytest

test_payload = {
    "title": "Updated FastAPI event"
}

headers = {
    "Content-Type": "application/json",
    "Authorization": f"Bearer {access_token}"
}

url = f"/event/{str(mock_event.id)}"

response = await default_client.put(url, json=test_payload, headers=headers)

assert response.status_code == 200
assert response.json() == {'title': 'This test should fail'}

---

Failed tests/test_routes.py::test_update_event: AssertionError: assert 'Updated FastAPI event' == 'This test should fail'

- This test should fail
- Updated FastAPI event

tests/test_routes.py:103: AssertionError

1 failed, 4 passed in 0.05s
Failed tests/test_routes.py::test_get_event_again - assert 404 == 200

1 failed, 6 passed in 0.08s
The images show two command-line interfaces displaying the results of pytest tests. Here is the text extracted from the images:

```
(venv) ➜  planner git:(main) ➜  pytest
test session starts
platform darwin -- Python 3.8.2, pytest-7.1.2, plugy-1.0.0
plugins: asyncio-0.18.3, anyio-3.5.0
asyncio: mode=auto
collected 14 items

tests/test_arithmetic_operations.py ....
tests/test_fixture.py 

tests/test_login.py ..
tests/test_routes.py ......

(venv) ➜  planner git:(main) ➜  pytest
test session starts
platform darwin -- Python 3.8.2, pytest-7.1.2, plugy-1.0.0
plugins: asyncio-0.18.3, anyio-3.5.0
asyncio: mode=auto
collected 14 items

tests/test_arithmetic_operations.py ....
tests/test_fixture.py .
tests/test_login.py ...
tests/test_routes.py ......

14 passed in 0.57s
```
<table>
<thead>
<tr>
<th>Name</th>
<th>Total</th>
<th>Miss</th>
<th>Cover</th>
</tr>
</thead>
<tbody>
<tr>
<td>auth/_init___.py</td>
<td>0</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>auth/authenticate.py</td>
<td>9</td>
<td>1</td>
<td>85%</td>
</tr>
<tr>
<td>auth/hash_password.py</td>
<td>7</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>auth/jwt_handler.py</td>
<td>25</td>
<td>5</td>
<td>80%</td>
</tr>
<tr>
<td>database/_init___.py</td>
<td>0</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>database/database.py</td>
<td>44</td>
<td>2</td>
<td>95%</td>
</tr>
<tr>
<td>main.py</td>
<td>18</td>
<td>3</td>
<td>83%</td>
</tr>
<tr>
<td>models/_init___.py</td>
<td>0</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>models/events.py</td>
<td>22</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>models/users.py</td>
<td>12</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>routes/_init___.py</td>
<td>0</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>routes/events.py</td>
<td>41</td>
<td>4</td>
<td>90%</td>
</tr>
<tr>
<td>routes/users.py</td>
<td>27</td>
<td>3</td>
<td>89%</td>
</tr>
<tr>
<td>tests/conf_test.py</td>
<td>23</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>tests/test_arithmetic_operations.py</td>
<td>16</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>tests/test_fixture.py</td>
<td>7</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>tests/test_login.py</td>
<td>27</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>tests/test_routes.py</td>
<td>59</td>
<td>0</td>
<td>100%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>327</td>
<td>18</td>
<td>94%</td>
</tr>
<tr>
<td>Module</td>
<td>statements</td>
<td>missing</td>
<td>excluded</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>------------</td>
<td>---------</td>
<td>----------</td>
</tr>
<tr>
<td>auth-init...py</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>auth/authenticate.py</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>auth/hash_password.py</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>auth/jwt_handler.py</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>database/<strong>init</strong>.py</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>database/connection.py</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>main.py</td>
<td>21</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>models/<strong>init</strong>.py</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>models/events.py</td>
<td>22</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>models/users.py</td>
<td>12</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>routes/<strong>init</strong>.py</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>routes/events.py</td>
<td>41</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>routes/users.py</td>
<td>27</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>tests/<strong>init</strong>.py</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>tests/conf/test.py</td>
<td>23</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>tests/test_arithmetic_operations.py</td>
<td>16</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>tests/test_fixture.py</td>
<td>7</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>tests/test_login.py</td>
<td>17</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>tests/test_routes.py</td>
<td>59</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>330</td>
<td>18</td>
<td>0</td>
</tr>
</tbody>
</table>

Coverage for routes/events.py: 90%

```python
1 | from typing import List
2 | from auth.authenticate import authenticate
3 | from beanie import PydanticObjectId
4 | from database.connection import Database
5 | from fastapi import APIRouter, Depends, HTTPException, status
6 | from models.events import Event, EventUpdate
7 |
8 | event_router = APIRouter(
9 |     tags=['Events'])
10 |
11 |
12 | event_database = Database(Event)
13 |
14 |
15 | @event_router.get('/', response_model=List[Event])
16 | async def retrieve_all_events() -> List[Event]:
17 |     events = await event_database.get_all()
18 |     return events
19 |
20 |
21 | @event_router.get('/{id}'), response_model=Event)
22 | async def retrieve_event(id: PydanticObjectId) -> Event:
23 |     event = await event_database.get(id)
24 |     if not event:
25 |         raise HTTPException(
26 |             status_code=status.HTTP_404_NOT_FOUND,
27 |             detail='Event with supplied ID does not exist'
28 |         )
29 |     return event
30 |
31 |
32 | @event_router.post('/new')
```
Chapter 09: Deploying FastAPI Applications

```
planner git:(main) $ docker build -t event-planner-api .
```

```bash
[+] Building 10.7s (10/10) FINISHED
  => [internal] load build definition from Dockerfile 0.0s
  => [internal] transferring dockerfile: 2448 0.0s
  => [internal] load .dockerignore 0.0s
  => [internal] transferring context: 348 0.0s
  => [internal] load metadata for docker.io/library/python:3.10 3.0s
  => [1/5] FROM docker.io/library/python:3.10 @sha256:bef6fd726fb8825d5cf26933d8477505b
  => [2/5] RUN python3 --version
test: [1/1]
```

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  => [2/5] RUN python3 --version
test: [1/1]
```
```bash
$ docker pull mongo
Using default tag: latest
latest: Pulling from library/mongo
d4be87bb7858: Pull complete
cbd852bdaae7: Pull complete
cb5f3933e42: Pull complete
98a226c0d9830: Pull complete
8c0e3e4d38c: Pull complete
e106719865e3: Pull complete
6009d4b7e928: Pull complete
01122994b031: Pull complete
8eb28d827063: Pull complete
Digest: sha256:58d89187e7b07f6e4ce9ba3ee264af5f67f4b4aaf8f97949f3b9de92cdca79c2
Status: Downloaded newer image for mongo:latest
docker.io/library/mongo:latest
$ docker-compose up -d
```

```bash
$ planner git:(main)
```

```bash
$ docker-compose up -d
Creating network "planner_default" with the default driver
Creating planner_database_1 ... done
Creating planner_api_1 ... done
$ planner git:(main)
$ planner git:(main)
```
docker ps

CONTAINER ID   IMAGE              COMMAND                  CREATED       STATUS

84422100e0f3e  event-planner-api:latest  "python main.py"  2 minutes ago  Up 2 minutes
0.0.0.0:8080->8080/tcp, :::8080->8080/tcp  planner_api_1
016f6e18fbb2    mongo             "docker-entrypoint.s"  2 minutes ago  Up 2 minutes
0.0.0.0:58879->27017/tcp   planner_database_1

docker-compose down

Stopping planner_api_1 ... done
Stopping planner_database_1 ... done
Removing planner_api_1 ... done
Removing planner_database_1 ... done
Removing network planner_default

planner git:(main)

planner git:(main)