

FastAPI

0. Quelle

<https://realpython.com/api-integration-in-python/#django-rest-framework>

1. FastAPI und Uvicorn installieren

- `pip install fastapi`
- `pip install uvicorn[standard]`

2. Quellcode: Datei app.py

```
# app.py
from fastapi import FastAPI
from pydantic import BaseModel, Field

app = FastAPI()

def _find_next_id():
    return max(country.country_id for country in countries) + 1

class Country(BaseModel):
    country_id: int = Field(default_factory=_find_next_id, alias="id")
    name: str
    capital: str
    area: int

countries = [
    Country(id=1, name="Thailand", capital="Bangkok", area=513120),
    Country(id=2, name="Australia", capital="Canberra", area=7617930),
    Country(id=3, name="Egypt", capital="Cairo", area=1010408),
]

@app.get("/countries")
async def get_countries():
    return countries

@app.post("/countries", status_code=201)
async def add_country(country: Country):
    countries.append(country)
    return country
```

3. Server starten

```
uvicorn app:app --reload
```

4. Server testen

Daten

<http://127.0.0.1:8000/countries>

Dokumentationen

- OpenAPI (Swagger): <http://127.0.0.1:8000/docs>
- Redoc: <http://127.0.0.1:8000/redoc>