FastAPI - Day 2: Installation & First Steps

1. Folder Setup & Installation

```
    Create a new folder for your FastAPI project.
    Install FastAPI and Uvicorn:
        pip install fastapi uvicorn
    Uvicorn is the server that runs FastAPI apps.
```

2. First Endpoint

```
Example:
from fastapi import FastAPI

app = FastAPI()

@app.get("/")
def read_root():
    return {"message": "Hello, FastAPI!"}

- Run: uvicorn main:app --reload
    Visit: http://127.0.0.1:8000/
```

3. Multiple Endpoints

```
Example:
@app.get("/hello")
def say_hello():
    return {"message": "Hello World"}
@app.get("/goodbye")
def say_goodbye():
    return {"message": "Goodbye!"}
```

4. Path Parameters

```
Example:
@app.get("/restaurant/{name}")
def get_restaurant(name: str):
    return {"restaurant": name, "status": "open"}
```

5. Real-World Example: Restaurant Menu

6. Scalable Version with Dictionary