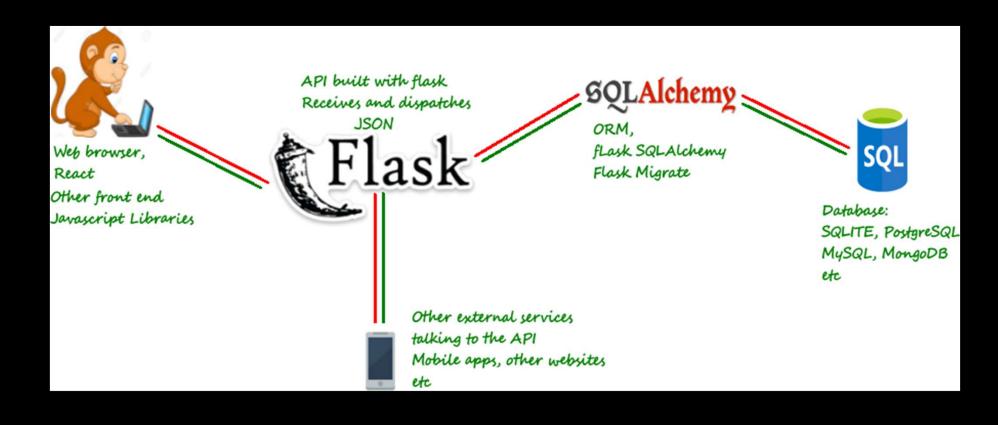


RECAP

APPLICATION TIER PYTHON FLASK



FLASK RESTAPI COMPLETE OVERVIEW

TYPICALL CLEINTS OFF APPLICATION TIER [FLASK REST API]

- WEB APPLICATION [EITHER FROM SELF PHONES OR PC'S]
- SELF PHONE APPLICATIONS
- OTHER APPLICATION TIERS [BACKEND APPLICATIONS]

BUT HOW TO TEST THE APPLICATION TIER DURING DEVELOPMENT?



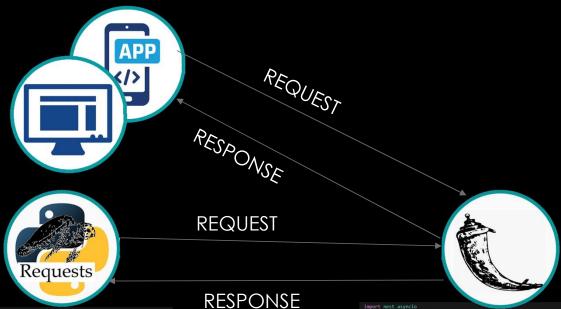
END TO END TESTING OF APPLICATION TIER [FLASK REST API]

- 1. PYTHON REQUESTS LIBRARY
- 2. SWAGGER
- 3. POSTMAN





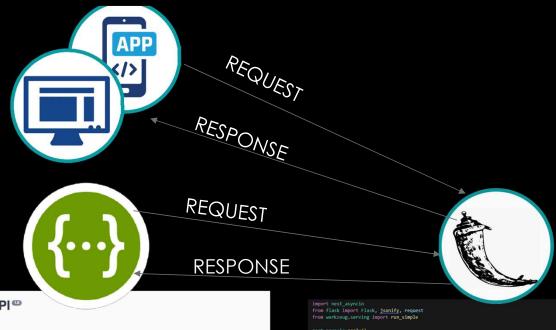
FLASK RESTAPI



```
comment_post_url = f"{BASE_URL}/comment"
comment_payload = {"id": 3, "content": "some", "post_id": 1}
status code = response.status code
if status code -- HTTPStatus.BAD REQUEST:
    display(response.json())
if status_code == HTTPStatus.CREATED:
    display(response.json())
 comment_id = 3
 comment_get_url = f"{BASE_URL}/comment/{comment_id}"
  response = requests.get(url=comment_get_url)
```

```
import nest_asyncio
from flask import Flask, jsonify, request
from werkzeug.serving import run_simple
#http://localhost:5000/hello
@App.route("/hello", methods=["GET"])
def hello_world():
    message_data - {"message": "Hello, World!"}
# http://localhost:5000/greet/adam => greet(name="adam") # we call this endpoint with path variable
@app.route("/greet/<string:name>", methods=["GET"])
 def greet(name: str):
    message_data = ("message": f"Hello, (name)!")
    return jointfy(message_data), 200# data = ("message": "Hello, Norld!") -> jointfy(data) = (\"message\": \"Hello, Adam!\")
# http://localhost:5000/query/
# http://localhost:5000/query/namo=adam
# http://localhost:5000/query/namo=adamAage=37
@app.routc/~/query*, methods=["GET"])
def query():
```

FLASK RESTX REST API



```
Swagger enabled API

I asso crat. / 1

Inspirit calmost 2000 the apper join

A simple Quotes API

quotes Quote CRUD operations

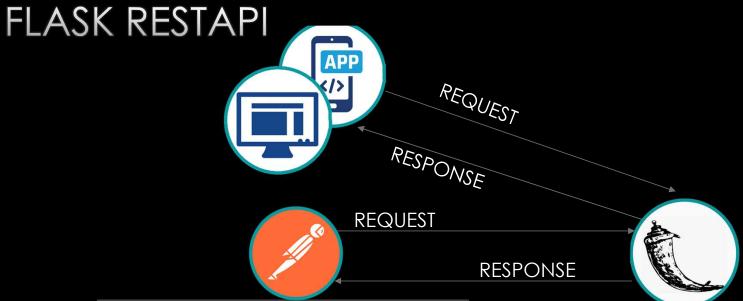
POST /quotes/ List all quotess

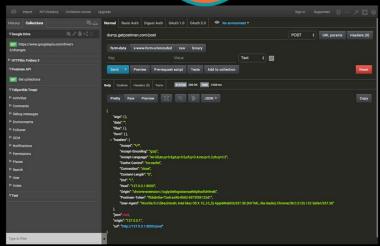
DELETE /quotes/ List all quotess

DELETE /quotes/ List all quote given its identifier

GET /quotes/ List all quote given its identifier

PUT /quotes/ (i.d.) Update a quote given its identifier
```





```
import nest_asynclo
from flank import Flank, joinfy, request
from werkzeug.seving import run_simple

nest_asynclo.apply()

app = flask(_name_) # Application Tier app

@http://localbostis000/helio
@mps.route('/helio', methios=['GET'])
def helio_world()
message_data = ("message": "Helio, Norld!")
    return joinfy(message_data), 200 # data = ("message": "Helio, Norld!") >> joinfy(data) = (\"message\": \"Helio, Norld!")

# http://localbostis000/greet/data= >> greet(name='adam') # we call this endpoint with path variable
@mps.route('greet/cstrign_mame>', methods=['GET'])
def greet(name: str):
    message_data = ("message": "Helio, (name)!")
    return joinfy(message_data), 2000 data = ("message": "Helio, Norld!") >> joinfy(data) = {\"message\": \"Helio, Adam!\"}

# http://localbostis000/qurety /mame_adam
# intity://localbostis000/qurety /mame_adam
# intity://localbostis000/qurety /mame_adam
# intity://localbostis000/qurety /mame_adamage=)?
# intity://localbostis000/qurety /mame_ad
```