**(FLASK) PYTHON**

**Membuat Hello World Dengan Python(FLASK)**

from flask import Flask

application = Flask(\_\_name\_\_)

@application.route('/')

def index():

return 'Hello World'

if \_\_name\_\_ == '\_\_main\_\_':

application.run(debug=True)

**Membuat array di python**

from flask import Flask

application = Flask(\_\_name\_\_)

@application.route('/home', methods=['GET'])

def home():

array\_data = ['rifky','edward','albert','robert','jhon']

print(array\_data)

if \_\_name\_\_ == '\_\_main\_\_':

application.run(debug=True)

**Membuat Template dengan flask python**

from flask import Flask , render\_template

application = Flask(\_\_name\_\_)

@application.route('/home', methods=['GET'])

def home():

array\_data = ['rifky','edward','albert','robert','jhon']

return render\_template('home.html', rows=array\_data)

if \_\_name\_\_ == '\_\_main\_\_':

application.run(debug=True)

**Membuat Json Data dari Array Atau API / Application Programming Interface**

from flask import Flask , jsonify

application = Flask(\_\_name\_\_)

@application.route('/')

def index():

return jsonify([

{"id": "1", "name": "rifqi", "preferences": "asdasd"},

{"id": "1", "name": "rifqi", "preferences": "asdasd"},

{"id": "1", "name": "rifqi", "preferences": "asdasd"}

])

if \_\_name\_\_ == '\_\_main\_\_':

application.run(debug=True)

**Menampilkan data dari API External**

from flask import Flask , jsonify

import requests

application = Flask(\_\_name\_\_)

@application.route('/list', methods=['GET'])

def lists():

api\_url = 'https://jsonplaceholder.typicode.com/todos'

try:

response = requests.get(api\_url)

response.raise\_for\_status()

data = response.json()

return jsonify(data)

except requests.exceptions.RequestException as e:

return jsonify({'error': str(e)}), 500

if \_\_name\_\_ == '\_\_main\_\_':

application.run(debug=True)

**Menampilkan Data Array ke HTML**

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>Home</title>**

**</head>**

**<body>**

**<h1>Ini Data Dari Array!</h1>**

**{% for value in rows %}**

**<p>{{ loop.index }} dengan Nama {{value | capitalize }} </p>**

**{% endfor %}**

**</body>**

**</html>**

**Menampilkan data dari JSON ke HTML (UPDATED)**

**from flask import Flask , jsonify , request, render\_template**

**import requests**

**from flask\_cors import CORS**

**application = Flask(\_\_name\_\_)**

**CORS(application)**

**@application.route('/list', methods=['GET'])**

**def lists():**

**api\_url = 'https://jsonplaceholder.typicode.com/todos'**

**try:**

**response = requests.get(api\_url)**

**response.raise\_for\_status()**

**data = response.json()**

**if isinstance(data, list):**

**return render\_template('bacajson.html', rows=data)**

**else :**

**return jsonify(data)**

**except requests.exceptions.RequestException as e:**

**return jsonify({'error': str(e)}), 500**

**if \_\_name\_\_ == '\_\_main\_\_':**

**application.run(debug=True)**

**NEXT()**

**<!DOCTYPE html>**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>Baca JSON Data</title>**

**</head>**

**<body>**

**<h1>Baca Dari Api !</h1>**

**{% for value in rows %}**

**<p>{{ loop.index }} dengan Nama {{value.title | capitalize }} </p>**

**{% endfor %}**

**</body>**

**</html>**

**Menampilkan Media/Image di HTML**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>Media</title>**

**</head>**

**<body>**

**<img src="{{ url\_for('static', filename='images/images.jpg') }}" alt="Deskripsi Gambar">**

**</body>**

**</html>**

**Membuat Logic di Python IF/ELSE**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<title>Logic</title>**

**</head>**

**<body>**

**{% set nama = "pattra" %}**

**{% if nama == "pattra" %}**

**<p> Hallo {{ nama }} </p>**

**{% else %}**

**<p> Tidak Ada Nama </p>**

**{% endif %}**

**</body>**

**</html>**

**Import Style.css dan Javascript di Python**

**<html lang="en">**

**<head>**

**<meta charset="UTF-8">**

**<meta name="viewport" content="width=device-width, initial-scale=1.0">**

**<link rel="stylesheet" type="text/css" href="{{url\_for('static', filename='asset/style.css')}}" />**

**<title>Logic</title>**

**</head>**

**<body>**

**{% set nama = "pattra" %}**

**{% if nama == "pattra" %}**

**<p> Hallo {{ nama }} </p>**

**{% else %}**

**<p> Tidak Ada Nama </p>**

**{% endif %}**

**<script src="{{url\_for('static', filename='asset/script.js')}}"></script>**

**</body>**

**</html>**

**SOAL**

1. **Buatlah layout dengan meunggunkana css dan javascript yang sudah kita perlajari sebelumnya, dengan model layout seperti materi sebelumnya**
2. **Buatlah Grafik dan Table dengan menggunakan data dari python dan grafik dari materi sebelumnya**