

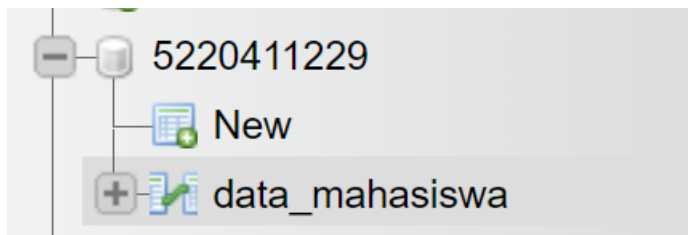
Hasil Kegiatan Praktikum	
Program Studi	Informatika
Mata Kuliah / Kelas	Pemrograman Berorientasi Objek Praktik / VII
Kelas	VI
NPM	5220411229
Nama	Alfito Juanda

Hari	jumat
Tanggal	-
Ruang	LK 2.3
Materi	Project Database

Link github:

[https://github.com/aljuan14/PBOVI\\_5220411229\\_Alfito-Juanda.git](https://github.com/aljuan14/PBOVI_5220411229_Alfito-Juanda.git)

1. Screenshot database dan table yang dibuat
  - a. database

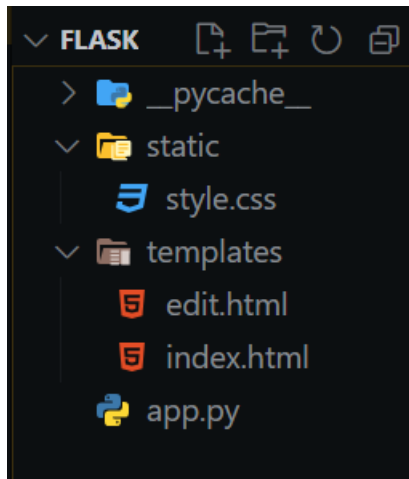


- b. table dan isinya

				npm	nama	jurusan
<input type="checkbox"/>		Edit		Copy		Delete
	229	Alfito Juanda	Informatika			
<input type="checkbox"/>		Edit		Copy		Delete
	230	Dinda Selyani	Tata Busana			
<input type="checkbox"/>		Edit		Copy		Delete
	231	Akbar	Informatika			
<input type="checkbox"/>		Edit		Copy		Delete
	232	Burhan	Teknik Industri			
<input type="checkbox"/>		Edit		Copy		Delete
	233	Cecep	Electro			
<input type="checkbox"/>		Edit		Copy		Delete
	234	Podovski	perkucingan			

## 2. kode program

### a. struktur folder



### b. isi dari app.py

```
from flask import Flask, render_template, request, redirect
import mysql.connector

app = Flask(__name__)

class Database:
    def __init__(self, host, user, password, database):
        self.connection = mysql.connector.connect(
            host=host,
            user=user,
            passwd=password,
            database=database
        )
        self.cursor = self.connection.cursor()

    def execute_query(self, query, data=None):
        self.cursor.execute(query, data)
        self.connection.commit()

    def fetch_all(self, query):
        self.cursor.execute(query)
        return self.cursor.fetchall()

    def fetch_one(self, query, data):
        self.cursor.execute(query, data)
        return self.cursor.fetchone()

class Mahasiswa:
```

```

def __init__(self, db):
    self.db = db

def add_data(self, npm, nama, jurusan):
    query = "INSERT INTO data_mahasiswa (npm, nama, jurusan) VALUES (%s, %s, %s)"
    data = (npm, nama, jurusan)
    self.db.execute_query(query, data)

def get_all_data(self):
    query = "SELECT * FROM data_mahasiswa"
    return self.db.fetch_all(query)

def get_data_by_npm(self, npm):
    query = "SELECT * FROM data_mahasiswa WHERE npm = %s"
    data = (npm,)
    return self.db.fetch_one(query, data)

def update_data(self, npm, nama, jurusan):
    query = "UPDATE data_mahasiswa SET nama=%s, jurusan=%s WHERE npm=%s"
    data = (nama, jurusan, npm)
    self.db.execute_query(query, data)

def delete_data(self, npm):
    query = "DELETE FROM data_mahasiswa WHERE npm=%s"
    data = (npm,)
    self.db.execute_query(query, data)

# Konfigurasi Database
db_config = {
    'host': 'localhost',
    'user': 'root',
    'password': '',
    'database': '5220411229'
}

# Inisialisasi Objek Database dan Mahasiswa
database = Database(**db_config)
mahasiswa_manager = Mahasiswa(database)

@app.route('/add', methods=['POST'])
def add_data():
    npm = request.form['npm']
    nama = request.form['nama']

```

```

        jurusan = request.form['jurusan']

        mahasiswa_manager.add_data(npm, nama, jurusan)

        return redirect('/')

@app.route('/')
def index():
    data_mahasiswa = mahasiswa_manager.get_all_data()
    return render_template('index.html', data_mahasiswa=data_mahasiswa)

@app.route('/edit/<int:npm>', methods=['GET'])
def edit_data(npm):
    mahasiswa = mahasiswa_manager.get_data_by_npm(npm)
    return render_template('edit.html', mahasiswa=mahasiswa)

@app.route('/update/<int:npm>', methods=['POST'])
def update_data(npm):
    nama = request.form['nama']
    jurusan = request.form['jurusan']

    mahasiswa_manager.update_data(npm, nama, jurusan)

    return redirect('/')

@app.route('/delete/<int:npm>')
def delete_data(npm):
    mahasiswa_manager.delete_data(npm)

    return redirect('/')

if __name__ == '__main__':
    app.run(debug=True)
c.

```

d. isi dari edit.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Edit Data Mahasiswa</title>
    <link rel="stylesheet" href="../static/style.css">
</head>
<body>

```

```

<h1>Edit Data Mahasiswa</h1>

<form action="/update/{{ mahasiswa[0] }}" method="post">
    <label for="nama">Nama:</label>
    <input type="text" id="nama" name="nama" value="{{ mahasiswa[1]
}}"><br><br>

    <label for="jurusan">Jurusan:</label>
    <input type="text" id="jurusan" name="jurusan" value="{{
mahasiswa[2] }}"><br><br>

    <input type="submit" value="Update">
</form>
</body>
</html>
e.

```

f. isi dari index.html

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Data Mahasiswa</title>
    <link rel="stylesheet" href="../static/style.css">
</head>
<body>
    <h1>Data Mahasiswa</h1>

    <form action="/add" method="post">
        <label for="nama">Nama:</label>
        <input type="text" id="nama" name="nama"><br><br>

        <label for="npm">NPM:</label>
        <input type="text" id="npm" name="npm"><br><br>

        <label for="jurusan">Jurusan:</label>
        <input type="text" id="jurusan" name="jurusan"><br><br>

        <input type="submit" value="Submit">
    </form>

    <table>
        <caption></caption>
        <tr>

```

```

        <th>NPM</th>
        <th>Nama</th>
        <th>Jurusan</th>
        <th>Action</th>
    </tr>
    {% for mahasiswa in data_mahasiswa %}
        <tr>
            <td>{{ mahasiswa[0] }}</td>
            <td>{{ mahasiswa[1] }}</td>
            <td>{{ mahasiswa[2] }}</td>
            <td>
                <a href="/edit/{{ mahasiswa[0] }}"><input
type="button1" value="Edit"></a>
                <a href="/delete/{{ mahasiswa[0] }}"><input
type="button" value="Delete"></a>
            </td>
        </tr>
    {% endfor %}
</table>
</body>
</html>
g.

```

h. isi dari style.css

```

body {
    font-family: Arial, sans-serif;
}

h1 {
    text-align: center;
}

table {
    width: 50%;
    border-collapse: collapse;
    margin: 20px auto;
    border-radius: 50%;
}

th, td {
    border: 1px solid #dddddd;
    text-align: left;
    padding: 8px;
}

```

```
th {
  background-color: #f2f2f2;
}

/* style.css */
body {
  font-family: Arial, sans-serif;
}

form {
  max-width: 400px;
  margin: 0 auto;
  background-color: #f9f9f9;
  padding: 20px;
  border-radius: 5px;
  box-shadow: 0 2px 4px rgba(0,0,0,0.1);
}

label {
  font-weight: bold;
}

input[type="text"] {
  width: 100%;
  padding: 8px;
  margin-bottom: 10px;
  border: 1px solid #ccc;
  border-radius: 4px;
}

input[type="submit"] {
  background-color: #4CAF50;
  color: white;
  padding: 10px 20px;
  border: none;
  border-radius: 4px;
  cursor: pointer;
}

input[type="submit"]:hover {
  background-color: #45a049;
}

input[type="button"] {
  background-color: #c72e5a;
```

```

        color: white;
        padding: 10px 20px;
        border: none;
        border-radius: 4px;
        cursor: pointer;
    }

    input[type="button"]:hover {
        background-color: #b91c48;
    }

    input[type="button1"] {
        background-color: #30d2d7;
        color: white;
        padding: 10px 20px;
        border: none;
        border-radius: 4px;
        cursor: pointer;
        width: 30px;
    }

    input[type="button1"]:hover {
        background-color: #0fb0b5;
    }
i.

```

### 3. Hasil running program

#### a. Tampilan diterminal

```

PROBLEMS 1 TERMINAL PORTS DEBUG CONSOLE OUTPUT flask +
PS D:\Folder Baru Juan\Duty Script\Semester 3\PBOP\Pertemuan 14\Flask> flask run
* Debug mode: off
WARNING: This is a development server. Do not use it in a production deployment. Use a production WSGI server instead.
* Running on http://127.0.0.1:5000
Press CTRL+C to quit
127.0.0.1 - - [14/Jan/2024 20:58:35] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [14/Jan/2024 20:58:35] "GET /static/style.css HTTP/1.1" 200 -
127.0.0.1 - - [14/Jan/2024 21:38:45] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [14/Jan/2024 21:38:45] "GET /static/style.css HTTP/1.1" 304 -
127.0.0.1 - - [14/Jan/2024 21:39:06] "POST /add HTTP/1.1" 302 -
127.0.0.1 - - [14/Jan/2024 21:39:06] "GET / HTTP/1.1" 200 -
127.0.0.1 - - [14/Jan/2024 21:39:06] "GET /static/style.css HTTP/1.1" 304 -

```



b. Tampilan web

[illegible]

Tampilan edit

The screenshot shows a web browser window with the address bar displaying '127.0.0.1:5000/edit/229'. The main content area features a form titled 'Edit Data Mahasiswa'. The form contains two labeled input fields: 'Nama:' with the text 'Afifo Juanda' and 'Jurusan:' with the text 'Informatika'. At the bottom of the form is a green button labeled 'Update'.