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### Tahapan membuat RESTful API


Businnes Flow ==> UI/UX Screen ==> API Documentation ==> Develop RESTful API

 Businnes Flow

Daftar	Login	Form Mahasiswa
Nama Email Username Password RePassword	Username Password	No BP Nama Lengkap Jurusan Prodi Tempat Tanggal Lahir Jenis Kelamin Agama No Telp Alamat

1. Halaman Daftar

# Daftar




**DAFTAR**

Sudah Mempunyai Akun? **LOGIN**

## 2. Halaman Login

# Login





[Lupa Kata Sandi?](#)

Belum Punya Akun?

[DAFTAR](#)

Login dengan:



3. Halaman Data Mahasiswa

## Masukan Data Diri

No BP

Nama Lengkap

Jurusan

Prodi

Tempat Tanggal Lahir

Jenis Kelamin

Agama

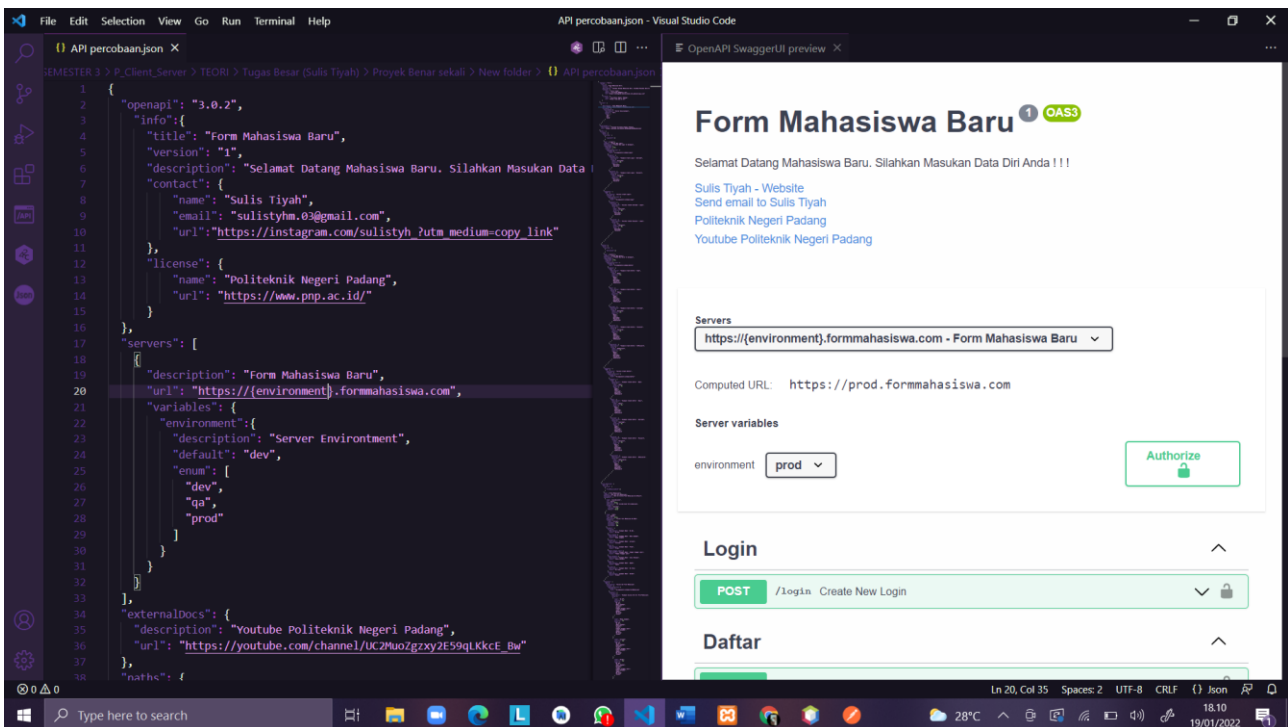
No Telp

Alamat

SIMPAN

## API Documentation

Daftar	Login	Form Mahasiswa
POST/daftar	POST/login	POST/form_mahasiswa GET/form_mahasiswa GET/form_mahasiswa/:no_bp PUT/form_mahasiswa/:no_bp DELETE/form_mahasiswa/:no_bp



The screenshot displays the Visual Studio Code editor with an OpenAPI specification file named `API percobaan.json` on the left and its SwaggerUI preview on the right.

**OpenAPI Specification (API percobaan.json):**

```
1 {
2   "openapi": "3.0.2",
3   "info": {
4     "title": "Form Mahasiswa Baru",
5     "version": "1",
6     "description": "Selamat Datang Mahasiswa Baru. Silahkan Masukan Data",
7     "contact": {
8       "name": "Sulis Tiyah",
9       "email": "sulistyhm.03@gmail.com",
10      "url": "https://instagram.com/sulistyh?utm_medium=copy_link"
11    },
12    "license": {
13      "name": "Politeknik Negeri Padang",
14      "url": "https://www.pnp.ac.id/"
15    }
16  },
17  "servers": [
18    {
19      "description": "Form Mahasiswa Baru",
20      "url": "https://{environment}.formmahasiswa.com",
21      "variables": {
22        "environment": {
23          "description": "Server Environment",
24          "default": "dev",
25          "enum": [
26            "dev",
27            "qa",
28            "prod"
29          ]
30        }
31      }
32    }
33  ],
34  "externalDocs": {
35    "description": "Youtube Politeknik Negeri Padang",
36    "url": "https://youtube.com/channel/UC2Muozgxy2E59qLkKcE_Bw"
37  },
38  "paths": {
```

**SwaggerUI Preview:**

### Form Mahasiswa Baru <sup>1</sup> OAS3

Selamat Datang Mahasiswa Baru. Silahkan Masukan Data Diri Anda !!!

[Sulis Tiyah - Website](#)  
[Send email to Sulis Tiyah](#)  
[Politeknik Negeri Padang](#)  
[Youtube Politeknik Negeri Padang](#)

**Servers**

`https://{environment}.formmahasiswa.com - Form Mahasiswa Baru`

Computed URL: `https://prod.formmahasiswa.com`

**Server variables**

environment: `prod` Authorize

**Login**

POST `/login` Create New Login

**Daftar**

Visual Studio Code interface showing an OpenAPI SwaggerUI preview of an API definition file named `API percobaan.json`.

The API definition file contains the following JSON structure:

```
{
  "openapi": "3.0.2",
  "info": {
    "title": "Form Mahasiswa Baru",
    "version": "1",
    "description": "Selamat Datang Mahasiswa Baru. Silahkan Masukan Data",
    "contact": {
      "name": "Sulis Tiyah",
      "email": "sulistyh.03@gmail.com",
      "url": "https://instagram.com/sulistyh?utm_medium=copy_link"
    },
    "license": {
      "name": "Politeknik Negeri Padang",
      "url": "https://www.pnp.ac.id/"
    }
  },
  "servers": [
    {
      "description": "Form Mahasiswa Baru",
      "url": "https://{environment}.formmahasiswa.com",
      "variables": {
        "environment": {
          "description": "Server Environment",
          "default": "dev",
          "enum": [
            "dev",
            "qa",
            "prod"
          ]
        }
      }
    }
  ],
  "externalDocs": {
    "description": "Youtube Politeknik Negeri Padang",
    "url": "https://youtube.com/channel/UC2HuoZgzxy2E59qLKkCE_Bw"
  },
  "paths": {
    "/login": {
      "post": {
        "summary": "Create New Login"
      }
    },
    "/daftar": {
      "post": {
        "summary": "Create New Daftar"
      }
    },
    "/form_mahasiswa": {
      "get": {
        "summary": "Get All Form Mahasiswa"
      },
      "post": {
        "summary": "Create New Form Mahasiswa"
      },
      "/ino_bp": {
        "get": {
        "summary": "Get Existing Form Mahasiswa"
        },
        "put": {
        "summary": "Update Existing Form Mahasiswa"
        },
        "delete": {
        "summary": "Delete Existing Form Mahasiswa"
        }
      }
    }
  }
}
```

The SwaggerUI preview shows the following endpoints:

- Server variables:** environment (prod) with an **Authorize** button.
- Login:** POST /login Create New Login
- Daftar:** POST /daftar Create New Daftar
- Form Mahasiswa:**
  - GET /form\_mahasiswa Get All Form Mahasiswa
  - POST /form\_mahasiswa Create New Form Mahasiswa
  - GET /form\_mahasiswa/ino\_bp Get Existing Form Mahasiswa
  - PUT /form\_mahasiswa/ino\_bp Update Existing Form Mahasiswa
  - DELETE /form\_mahasiswa/ino\_bp Delete Existing Form Mahasiswa

Visual Studio Code interface showing the same OpenAPI SwaggerUI preview, but with the **Schemas** section expanded.

The Schemas section displays the following schema definitions:

- Login:** { name, priority, tags, string number(\$int32), > [...] }
- Daftar:** { name, priority, tags, string number(\$int32), > [...] }
- FormMahasiswa:** { name, priority, tags, string number(\$int64), > [...] }
- FormMahasiswaParams:** { id, name, priority, tags, string number(\$int64), > [...] }

## Develop RestFul API

The screenshot shows the Apache NetBeans IDE with a Java project named 'Tugas\_Besar\_Sulis'. The main editor displays the 'main' method of a class, which is a REST API endpoint. The code uses Spark20 for HTTP requests and responses. It includes a 'try' block for handling requests and a 'finally' block for logging. The console output window shows the following error:

```
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#staticLoggerBinder for further details.
```

The screenshot shows the phpMyAdmin interface with a table named 'mahasiswa' in the 'pcs' database. The table contains two rows of student data. The interface includes a sidebar with a tree view of the database structure, a top navigation bar with various tools, and a main content area with a table of data. The table has columns for 'no\_bp', 'nama\_lengkap', 'jurusan', 'prodi', 'tempat\_tanggal\_lahir', 'jenis\_kelamin', 'agama', 'no\_telp', and 'alamat'.

no_bp	nama_lengkap	jurusan	prodi	tempat_tanggal_lahir	jenis_kelamin	agama	no_telp	alamat
2001081002	Sulis Tiyah	Teknologi Informasi	D3 Teknik Komputer	Gunung Raja, 03 Desember 2002	Perempuan	Islam	081292323052	Muara Enim, Sumatera Selatan
2001082033	Aldo Spama Putra Sur	Teknologi Informasi	D3 Teknik Komputer	Payakumbuh, 01 Juni 2001	Laki-laki	Islam	082286111771	Padang, Sumatera Barat

