

TP_09_API_Design_dan_Construction _Using_Swagger

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S1-SE-07-02

Hasil Run:

Data sebelum input

Mahasiswa

GET /api/Mahasiswa

Parameters

No parameters

Execute Clear

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7291/api/Mahasiswa' \
  -H 'accept: text/plain'
```

Request URL

https://localhost:7291/api/Mahasiswa

Server response

Code	Details
200	<p>Response body</p> <pre>{ "nama": "NamaAnda", "nim": "13022xxxxx" }, { "nama": "Anggota2", "nim": "13022xxxxx" }, { "nama": "Anggota3", "nim": "13022xxxxx" } </pre> <p>Response headers</p> <pre>content-type: application/json; charset=utf-8 date: Thu, 22 May 2025 08:05:38 GMT server: Kestrel</pre>

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Penginputan data

POST /api/Mahasiswa

Parameters Cancel Reset

No parameters

Request body application/json

```
{
  "nama": "Zhafir Zaidan Avail",
  "nim": "2311104059"
}
```

Execute Clear

Responses

Curl

```
curl -X POST \
  https://localhost:7291/api/Mahasiswa \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "nama": "Zhafir Zaidan Avail",
    "nim": "2311104059"
  }'
```

Request URL

```
https://localhost:7291/api/Mahasiswa
```

Server response

Data setelah input

Response body

```
{
  {
    "nama": "NamaAnda",
    "nim": "13022xxxxx"
  },
  {
    "nama": "Anggota2",
    "nim": "13022xxxxx"
  },
  {
    "nama": "Anggota3",
    "nim": "13022xxxxx"
  },
  {
    "nama": "Zhafir Zaidan Avail",
    "nim": "2311104059"
  }
}
```

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Response headers

```
content-type: application/json; charset=utf-8
date: Thu, 22 May 2025 08:07:14 GMT
server: Kestrel
```

Source Code:

1. Models/Mahasiswa.cs

```
namespace tpmodul9_2311104059.Models
{
    public class Mahasiswa
    {
        public string Nama { get; set; }
        public string Nim { get; set; }
    }
}
```

2. MahasiswaController.cs

```
using Microsoft.AspNetCore.Mvc;
using tpmodul9_2311104059.Models;

namespace tpmodul9_2311104059.Controllers
{
    [ApiController]
    [Route("api/[controller]")]
    public class MahasiswaController : ControllerBase
    {
        private static List<Mahasiswa> daftarMahasiswa = new List<Mahasiswa>
        {
            new Mahasiswa { Nama = "NamaAnda", Nim = "13022xxxxx" },
        }
    }
}
```

```

        new Mahasiswa { Nama = "Anggota2", Nim = "13022xxxxx" },
        new Mahasiswa { Nama = "Anggota3", Nim = "13022xxxxx" }
    };

    // GET /api/mahasiswa
    [HttpGet]
    public ActionResult<IEnumerable<Mahasiswa>> GetAll()
    {
        return Ok(daftarMahasiswa);
    }

    // GET /api/mahasiswa/{index}
    [HttpGet("{index}")]
    public ActionResult<Mahasiswa> Get(int index)
    {
        if (index < 0 || index >= daftarMahasiswa.Count)
            return NotFound("Data tidak ditemukan");
        return Ok(daftarMahasiswa[index]);
    }

    // POST /api/mahasiswa
    [HttpPost]
    public ActionResult Post([FromBody] Mahasiswa mahasiswa)
    {
        daftarMahasiswa.Add(mahasiswa);
        return Ok("Mahasiswa berhasil ditambahkan");
    }

    // DELETE /api/mahasiswa/{index}
    [HttpDelete("{index}")]
    public ActionResult Delete(int index)
    {
        if (index < 0 || index >= daftarMahasiswa.Count)
            return NotFound("Data tidak ditemukan");

        daftarMahasiswa.RemoveAt(index);
        return Ok("Mahasiswa berhasil dihapus");
    }
}

```