TUGAS PENDAHULUAN 9 KONTRUKSI PERANGKAT LUNAK

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Class MahasiswaController.cs

```csharp
using Microsoft.AspNetCore.Mvc;
using tpmodul9_2311104069.Model;

namespace tpmodul9_2311104069.Controllers
{
    [ApiController]
    [Route("api/[controller]")]
    public class MahasiswaController : ControllerBase
    {
        private static List<Mahasiswa> daftarMahasiswa = new List<Mahasiswa>
        {
            new Mahasiswa { Nama = "Nama Kamu", Nim = "2311104069" },
            new Mahasiswa { Nama = "Teman 1", Nim = "2311104003" },
            new Mahasiswa { Nama = "Teman 2", Nim = "2311104006" }
        };

        [HttpGet]
        public ActionResult<List<Mahasiswa>> Get() => daftarMahasiswa;

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

        [HttpPost]
        public ActionResult<List<Mahasiswa>> Post([FromBody] Mahasiswa mhs)
        {
            daftarMahasiswa.Add(mhs);
            return daftarMahasiswa;
        }

        [HttpDelete("{index}")]
        public ActionResult<List<Mahasiswa>> Delete(int index)
        {
            if (index < 0 || index >= daftarMahasiswa.Count)
                return NotFound("Index tidak ditemukan.");
            daftarMahasiswa.RemoveAt(index);
            return daftarMahasiswa;
        }
    }
}
```

Mahasiswa.cs

```
C# MahasiswaController.cs M     C# Mahasiswa.cs M  ×     C# WeatherForecastController.cs

09_API_Design_dan_Construction_Using_Swagger > TP9 > TP9 > C# Mahasiswa.cs
   1   namespace tpmodul9_2311104069.Model
   2   {
   3       public class Mahasiswa
   4       {
   5           public string Nama { get; set; }
   6           public string Nim { get; set; }
   7       }
   8   }
   9
```

POST/api/Mahasiswa

Response body
      "nim": "2311104001"
    },
    {
      "nama": "Teman 2",
      "nim": "2311104002"
    },
    {

      "nama": "Hansohee",
      "nim": "1111111111"
    },
    {
      "nama": "Kang Mus",
      "nim": "5555555555"
    },
    {
      "nama": "Yamal",
      "nim": "19191919"
    }
  ]

```
GET   /api/Mahasiswa/{index}

Parameters

Name          Description

index * required
integer($int32)    [ 0                          ]
(path)

            Execute                    |            Clear

Responses

Curl

curl -X 'GET' \
  'https://localhost:7148/api/Mahasiswa/0' \
  -H 'accept: text/plain'

Request URL

https://localhost:7148/api/Mahasiswa/0

Server response

Code    Details

200
        Response body
```

GET/api/Mahasiswa/{index}

DELETE/api/Mahasiswa/{index}

DELETE /api/Mahasiswa/{index}

Parameters   Cancel

Name   Description

index * required
integer($int32)   0
(path)

| Execute | Clear |

Responses

Curl
```
curl -X 'DELETE' \
  'https://localhost:7148/api/Mahasiswa/0' \
  -H 'accept: text/plain'
```

Request URL
```
https://localhost:7148/api/Mahasiswa/0
```

Server response

Code   Details