

TP 9

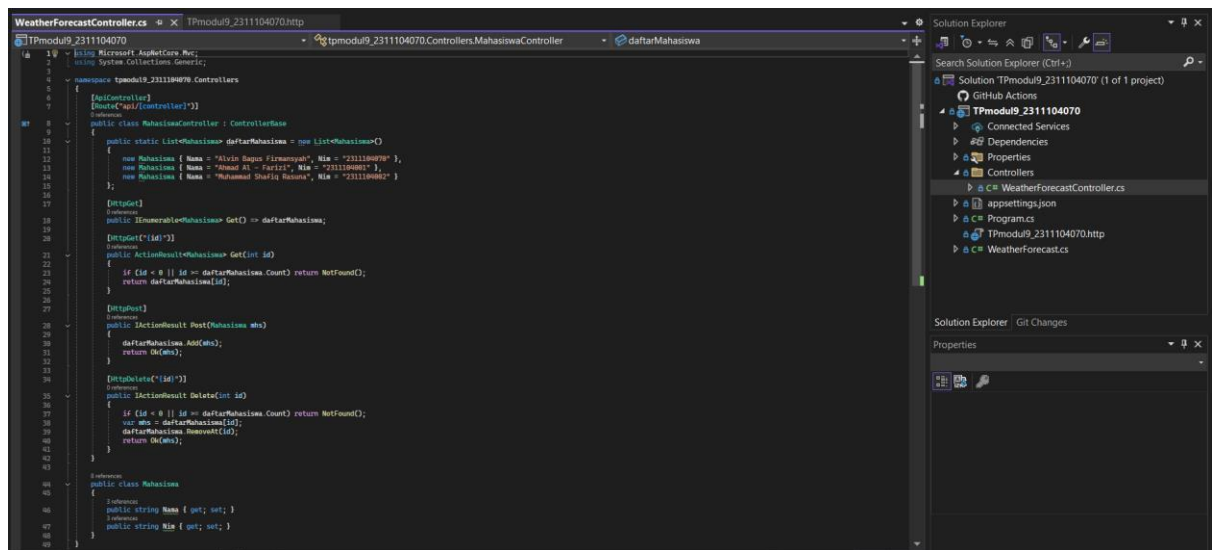
Nama : Alvin Bagus Firmansyah

Kelas : SE 07 02

NIM : 2311104070

Link Github : https://github.com/AlvinBagusF/KPL_ALVIN-BAGUS-FIRMANSYAH_2311104070_S1SE-07-02.git

1. Class WeatherForecastController.cs



```
using Microsoft.AspNetCore.Mvc;
using System.Collections.Generic;

namespace tpmodul9_2311104070.Controllers
{
    [ApiController]
    [Route("api/[controller]")]
    public class MahasiswaController : ControllerBase
    {
        public static List<Mahasiswa> daftarMahasiswa = new List<Mahasiswa>()
        {
            new Mahasiswa { Nama = "Alvin Bagus Firmansyah", NIM = "2311104070" },
            new Mahasiswa { Nama = "Ahmad Al - Farizi", NIM = "2311104001" },
            new Mahasiswa { Nama = "Muhammad Shafiq Rasuna", NIM = "2311104002" }
        };

        [HttpGet]
        [AllowAnonymous]
        public IEnumerable<Mahasiswa> Get() => daftarMahasiswa;

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

        [HttpPost]
        [AllowAnonymous]
        public ActionResult Post(Mahasiswa mhs)
        {
            daftarMahasiswa.Add(mhs);
            return Ok(mhs);
        }

        [HttpDelete("{id}")]
        [AllowAnonymous]
        public ActionResult Delete(int id)
        {
            if (id < 0 || id >= daftarMahasiswa.Count) return NotFound();
            var mhs = daftarMahasiswa[id];
            daftarMahasiswa.Remove(mhs);
            return Ok(mhs);
        }
    }

    public class Mahasiswa
    {
        [JsonProperty]
        public string Nama { get; set; }
        [JsonProperty]
        public string NIM { get; set; }
    }
}
```

- a. Mencoba “GET /api/mahasiswa” saat baru dijalankan (mengeluarkan list nama mahasiswa dan nim anggota kelompok)



```
curl -X 'GET' \
  'http://localhost:5166/api/Mahasiswa' \
  -H 'accept: text/plain'
```

Request URL
http://localhost:5166/api/Mahasiswa

Server response

Code Details

200

Response body

```
[
  {
    "nama": "Alvin Bagus Firmansyah",
    "nim": "2311104070"
  },
  {
    "nama": "Ahmad Al - Farizi",
    "nim": "2311104001"
  },
  {
    "nama": "Muhammad Shafiq Rasuna",
    "nim": "2311104002"
  }
]
```

Response headers

```
content-type: application/json; charset=utf-8
date: Thu, 24 Apr 2025 16:17:15 GMT
server: Kestrel
transfer-encoding: chunked
```

- b. Menambahkan mahasiswa => Nama: “John Doe” dan NIM: “1302199999” dengan “POST /api/mahasiswa”

POST /api/Mahasiswa

Parameters

No parameters

Request body

application/json

```
{
  "nama": "Yatno",
  "nim": "10888"
}
```

Execute Clear

- c. Cek list/array dari semua mahasiswa lagi dengan “GET /api/mahasiswa”, pastikan mahasiswa yang baru ditambahkan sebelumnya ada di list mahasiswa:

Curl

```
curl -X 'GET' \
  'http://localhost:5166/api/Mahasiswa' \
  -H 'accept: text/plain'
```

Request URL

http://localhost:5166/api/Mahasiswa

Server response

Code Details

200

Response body

```
[
  {
    "nama": "Alvin Bagus Firmansyah",
    "nim": "2311104070"
  },
  {
    "nama": "Ahmad Al - Farizi",
    "nim": "2311104001"
  },
  {
    "nama": "Muhammad Shafiq Rasuna",
    "nim": "2311104002"
  },
  {
    "nama": "Yatno",
    "nim": "10888"
  }
]
```

Response headers

```
content-type: application/json; charset=utf-8
date: Thu, 24 Apr 2025 16:20:56 GMT
server: Kestrel
transfer-encoding: chunked
```

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- d. Mencoba meminta mahasiswa dengan index 0, “GET /api/mahasiswa/0” yang seharusnya mengeluarkan nama dan nim anda:

id * required
integer(\$int32) 3
(path)

Execute Clear

Responses

Curl

```
curl -X 'GET' \
'http://localhost:5166/api/Mahasiswa/3' \
-H 'accept: text/plain'
```

Request URL

```
http://localhost:5166/api/Mahasiswa/3
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "nama": "Yatno", "nim": "18888" }</pre> <p>Response headers</p> <pre>content-type: application/json; charset=utf-8 date: Thu, 24 Apr 2025 16:21:53 GMT server: Kestrel transfer-encoding: chunked</pre>

- e. Menghapus objek mahasiswa dengan index ke-0 dengan “DELETE /api/mahasiswa/0”

id * required
integer(\$int32) 3
(path)

Execute Clear

Responses

Curl

```
curl -X 'DELETE' \
'http://localhost:5166/api/Mahasiswa/3' \
-H 'accept: */*'
```

Request URL

```
http://localhost:5166/api/Mahasiswa/3
```

Server response

Code	Details
200	<p>Response body</p> <pre>{ "nama": "Yatno", "nim": "18888" }</pre> <p>Response headers</p> <pre>content-type: application/json; charset=utf-8 date: Thu, 24 Apr 2025 16:22:32 GMT server: Kestrel transfer-encoding: chunked</pre>

- f. Cek list/array dari semua mahasiswa sekali lagi dengan “GET /api/mahasiswa”, pastikan nama anda sudah tidak muncul di list tersebut:

Curl

```
curl -X 'GET' \
  'http://localhost:5166/api/Mahasiswa' \
  -H 'accept: text/plain'
```

Request URL

http://localhost:5166/api/Mahasiswa

Server response

Code

Details

200

Response body

```
[
  {
    "nama": "Alvin Bagus Firmansyah",
    "nim": "2311104070"
  },
  {
    "nama": "Ahmad Al - Farizi",
    "nim": "2311104001"
  },
  {
    "nama": "Muhammad Shafiq Rasuna",
    "nim": "2311104002"
  }
]
```

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Response headers

```
content-type: application/json; charset=utf-8
date: Thu, 24 Apr 2025 16:22:54 GMT
server: Kestrel
transfer-encoding: chunked
```