

TP 9 SWAGGER API

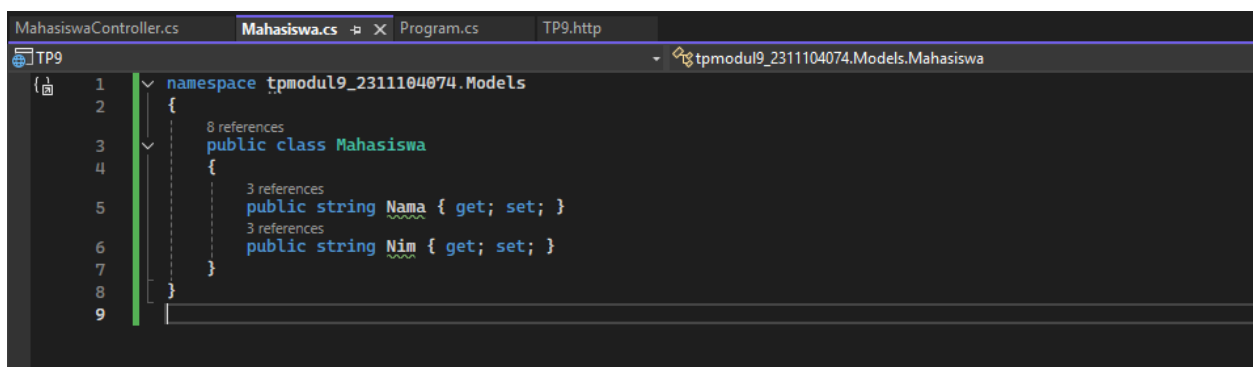
Nama :Fahmi hasan asagaf

Nim :2311104074

Link repo:

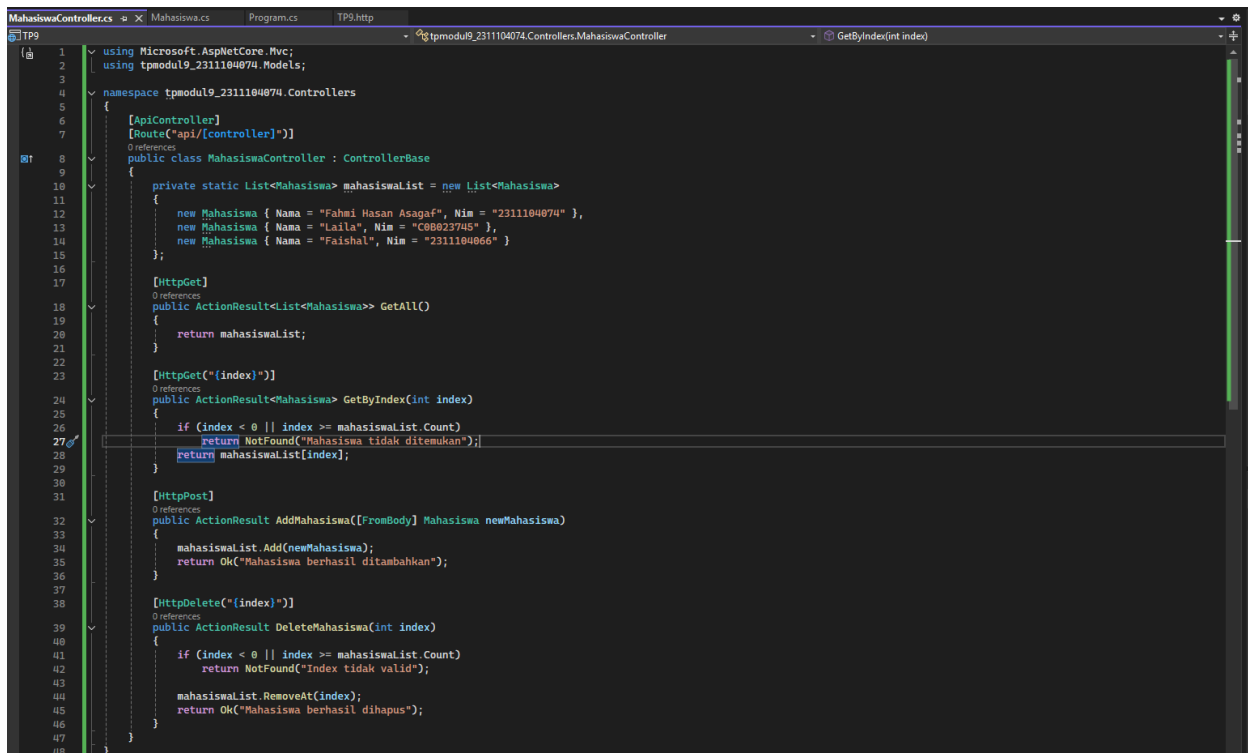
https://github.com/fahmihasanasagaf/KPL_2311104074_SE0702/tree/main/09_API_Design_and_Construction_Using_Swagger

Kelas mahasiswa.cs



```
1 namespace tpmodul9_2311104074.Models
2 {
3     8 references
4     public class Mahasiswa
5     {
6         3 references
7         public string Nama { get; set; }
8         3 references
9         public string Nim { get; set; }
10    }
11 }
```

Mahasiswa controller



```
1 using Microsoft.AspNetCore.Mvc;
2 using tpmodul9_2311104074.Models;
3
4 namespace tpmodul9_2311104074.Controllers
5 {
6     [ApiController]
7     [Route("api/[controller]")]
8     public class MahasiswaController : ControllerBase
9     {
10         private static List<Mahasiswa> mahasiswaList = new List<Mahasiswa>
11         {
12             new Mahasiswa { Nama = "Fahmi Hasan Asagaf", Nim = "2311104074" },
13             new Mahasiswa { Nama = "Laila", Nim = "C08023745" },
14             new Mahasiswa { Nama = "Faishal", Nim = "2311104066" }
15         };
16
17         [HttpGet]
18         public ActionResult<List<Mahasiswa>> GetAll()
19         {
20             return mahasiswaList;
21         }
22
23         [HttpGet("{index}")]
24         public ActionResult<Mahasiswa> GetByIndex(int index)
25         {
26             if (index < 0 || index >= mahasiswaList.Count)
27                 return NotFound("Mahasiswa tidak ditemukan");
28             return mahasiswaList[index];
29         }
30
31         [HttpPost]
32         public ActionResult AddMahasiswa([FromBody] Mahasiswa newMahasiswa)
33         {
34             mahasiswaList.Add(newMahasiswa);
35             return Ok("Mahasiswa berhasil ditambahkan");
36         }
37
38         [HttpDelete("{index}")]
39         public ActionResult DeleteMahasiswa(int index)
40         {
41             if (index < 0 || index >= mahasiswaList.Count)
42                 return NotFound("Index tidak valid");
43             mahasiswaList.RemoveAt(index);
44             return Ok("Mahasiswa berhasil dihapus");
45         }
46     }
47 }
```

Output tambahkan mahasiswa

```
{  
  "nama": "John Doe",  
  "nim": "1302199999"  
}
```

Execute

Clear

Responses

Curl

```
curl -X 'POST' \  
  'https://localhost:7195/api/Mahasiswa' \  
  -H 'accept: */*' \  
  -H 'Content-Type: application/json' \  
  -d '{  
    "nama": "John Doe",  
    "nim": "1302199999"  
  }'
```

Request URL

```
https://localhost:7195/api/Mahasiswa
```

Server response

Code	Details
200	<div><div>Response body</div><div>Mahasiswa berhasil ditambahkan</div><div><div>Download</div></div></div> <div><div>Response headers</div><div>content-type: text/plain; charset=utf-8 date: Fri, 30 May 2025 15:45:52 GMT server: Kestrel</div></div>

Responses

Get mahasiswa index 0 adalah saya

GET

/api/Mahasiswa/{index}

Cancel

Parameters

Name	Description
index * required	
integer(\$int32)	
(path)	

0

Execute

Clear

Responses

Curl

curl -X 'GET' \n'https://localhost:7195/api/Mahasiswa/0' \n-H 'accept: text/plain'

Request URL

https://localhost:7195/api/Mahasiswa/0

Server response

Code	Details
200	<div><div>Response body</div><div><div>{\n "nama": "Fahmi Hasan Asagaf",\n "nim": "2311104074"\n}</div><div>CopyDownload</div></div><div><div>Response headers</div><div><div>content-type: application/json; charset=utf-8\n\n\n\n\n\ndate: Fri, 30 May 2025 15:51:16 GMT\n\n\n\n\n\nserver: Kestrel</div></div></div></div>

Delete mahasiswa index 0

DELETE

/api/Mahasiswa/{index}

Parameters

Name	Description
index <small>* required</small>	
integer(\$int32)	0
(path)	

Execute

Clear

Responses

Curl

```
curl -X 'DELETE' \
'https://localhost:7195/api/Mahasiswa/0' \
-H 'accept: */*'
```

Request URL

```
https://localhost:7195/api/Mahasiswa/0
```

Server response

Code	Details
200	<div>Response body</div> <div>Mahasiswa berhasil dihapus</div> <div>Response headers</div> <div>content-type: text/plain; charset=utf-8 date: Fri, 30 May 2025 15:53:08 GMT server: Kestrel</div>

Responses

Code	Description
200	OK

Cek di get mahasiswa

Mahasiswa

GET

/api/Mahasiswa

Parameters

No parameters

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7195/api/Mahasiswa' \
  -H 'accept: text/plain'
```

Request URL

```
https://localhost:7195/api/Mahasiswa
```

Server response

Code	Details
200	<div>Response body</div> <pre>[{ "nama": "Faishal", "nim": "2311104066" }, { "nama": "John Doe", "nim": "1302199999" }, { "nama": "John Doe", "nim": "1302199999" }]</pre> <div>Response headers</div> <pre>content-type: application/json; charset=utf-8 date: Fri, 30 May 2025 15:54:01 GMT server: Kestrel</pre>

Responses