Tugas Pendahuluan Modul 9 Konstruksi Perangkat Lunak PRODI REKAYASA PERANGKAT LUNAK



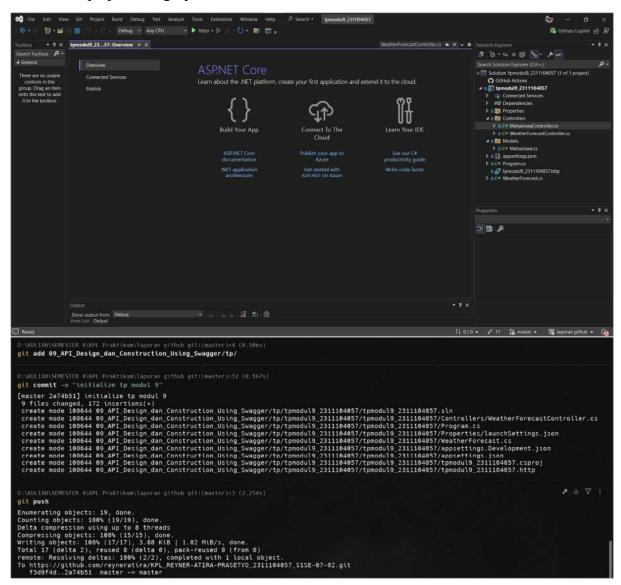
Nama:

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Tugas Pendahuluan Modul 9

1. Initialize project dan git push



2. Membuat model Mahasiswa

3. Membuat MahasiswaController

```
[Route("api/[controller]")]
[ApiController]

public class MahasiswaController : ControllerBase

{
    private static List<Mahasiswa > daftarMahasiswa = new List<Mahasiswa>
    {
        new Mahasiswa { Nama = "Reyner", Nim = "23111040657" },
        new Mahasiswa { Nama = "Ilham", Nim = "23111040668" },
        new Mahasiswa { Nama = "Aulia", Nim = "23111040668" }
    };

// GET: api/Mahasiswa
[HttpGet]

public ActionResult<IEnumerable<Mahasiswa>> GetAllMahasiswa()

{
        return Ok(daftarMahasiswa);
}

// GET: api/Mahasiswa/[index]
[HttpGet("findex]")]

public ActionResult<Mahasiswa> GetMahasiswaByIndex(int index)
{
        if (index < 0 || index >= daftarMahasiswa.Count)
        }
        return Ok(daftarMahasiswa[index]);
}

return Ok(daftarMahasiswa[index]);
```

4. Demonstrasi API



GET

POST "John Doe"

```
Curl
 curl -X 'POST' \
    'https://localhost:7262/api/Mahasiswa' \
    -H 'accept: text/plain' \
    -H 'Content-Type: application/json' \
   -H 'Content-Type: a

-d '{

"nama": "John Doe",

"nim": "1302199999"
Request URL
  https://localhost:7262/api/Mahasiswa
Server response
Code
                  Details
201
Undocumented Response body
                  {
    "nama": "John Doe",
    "nim": "1302199999"
                  Response headers
                     content-type: application/json; charset=utf-8 date: Sun,25 May 2025 10:04:57 GMT location: https://localhost:7262/api/Mahasiswa/3
                      server: Kestrel
```

GET after POST

GET index 0

```
Curl
 curl -X 'GET' \
   'https://localhost:7262/api/Mahasiswa/0' \
   -H 'accept: text/plain'
Request URL
 https://localhost:7262/api/Mahasiswa/0
Server response
             Details
Code
200
             Response body
                 "nama": "Reyner",
"nim": "2311104057"
             Response headers
                content-type: application/json; charset=utf-8
                date: Sun, 25 May 2025 10:06:19 GMT
                server: Kestrel
```

DELETE index 0

```
Curl -X 'DELETE' \
    'https://localhost:7262/api/Mahasiswa/0' \
    -H 'accept: */*'

Request URL

https://localhost:7262/api/Mahasiswa/0

Server response

Code Details

204
Undocumented

Response headers

date: Sun, 25 May 2025 10:06:58 GMT server: Kestrel
```

GET after DELETE

5. Push

```
D:\KULLAM\SEMESTER 4\KPL Praktikum\laporan github git:(master)=3 (0.886s)
git add 09_API_Design_dan_Construction_Using_Swagger/tp/

D:\KULLAM\SEMESTER 4\KPL Praktikum\laporan github git:(master)=5 (0.16s)
git commit -m "tp9 : menambahkan API mahasiswa"
[master 0a4a1cf] tp9 : menambahkan API mahasiswa
2 files changed, 84 insertions(+)
create mode 100044 09_API_Design_dan_Construction_Using_Swagger/tp/tpmodul9_2311104057/tpmodul9_2311104057/Controllers/MahasiswaController.cs
create mode 100044 09_API_Design_dan_Construction_Using_Swagger/tp/tpmodul9_2311104057/tpmodul9_2311104057/Models/Mahasiswa.cs

D:\KUM_LAM\SEMESTER 4\KPL Praktikum\laporan github git:(master)=3 (2.29s)
git push
Enumerating objects: 100% (15/15), done.
Counting objects: 100% (15/15), done.
Delta compression using up to 8 threads
Compressing objects: 100% (16/10), 1.65 KiB | 843.00 KiB/s, done.
Writing objects: 100% (10/10), 1.65 KiB | 843.00 KiB/s, done.
Total 10 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/reyneratira/KPL_REYNER-ATIRA-PRASETYO_2311104057_SISE-07-02.git
2a74051..00441cf master -> master
```