Link github: https://github.com/Vanzher77/JurnalMOD9

```csharp
namespace Modul9_1302213058_v2
{
    // 10 references
    public class Mahasiswa
    {
        // 4 references
        public string Name { get; set; }
        // 4 references
        public string Nim { get; set; }
        // 4 references
        public List<string> Course { get; set; }
        // 4 references
        public int Year { get; set; }
        // 0 references
        public Mahasiswa(string name, string nim, List<string> course, int year)
        {
            this.Name = name;
            this.Nim = nim;
            this.Course = course;
            this.Year = year;

        }

        // 3 references
        public Mahasiswa () { }
    }
}
```
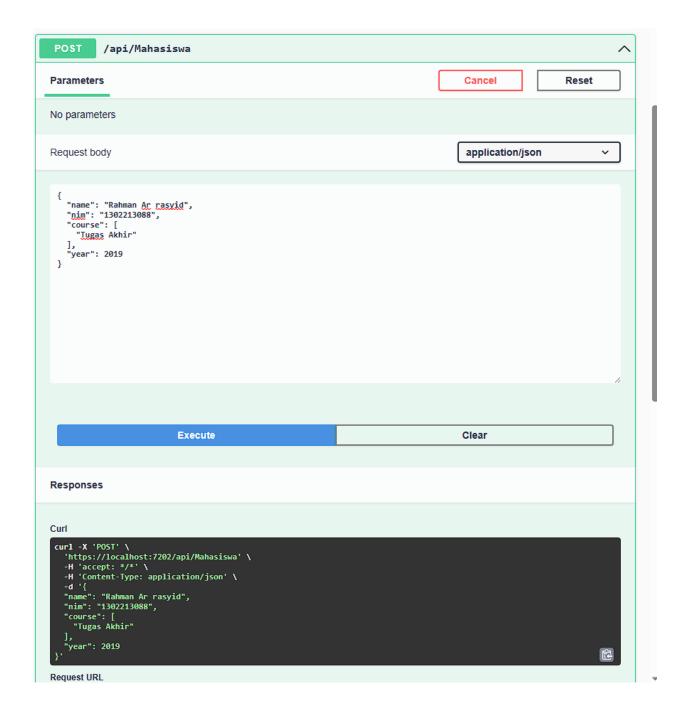
```csharp
namespace Modul9_1302213058_v2.Controllers
{
    [Route("api/[controller]")]
    [ApiController]
    0 references
    public class MahasiswaController : ControllerBase
    {
        public static List<Mahasiswa> mahasiswa = new List<Mahasiswa>
        {
            //pada parameter course terdapat array list, saya menggunakan course = new List<string> untuk menginisialisasi sebuah objek List sebelum digunakan
            new Mahasiswa{Name = "Mochamad Rizky Evan Ramadhan", Nim = "1302213058", Course = new List<string> { "Konstruksi Perangkat Lunak" }, Year = 2021 },
            new Mahasiswa{Name = "Kamal Maula Azka Shidqi", Nim = "1302210032", Course = new List<string>{ "Basis Data"}, Year = 2022 },
            new Mahasiswa{Name = "Ignaj nadhif", Nim = "1302213058", Course = new List<string>{ "Pemrograman Berorientasi Objek"}, Year = 2023 }
        };

        [HttpGet]
        //membuat output list array dari objek mahasiswa
        0 references
        public IEnumerable<Mahasiswa> Get()
        {
            return mahasiswa;
        }

        [HttpPost]
        //membuat objek mahasiswa baru dan menambahkan objek menyertai nama, nim, matakuliah dan tahun
        0 references
        public void post([FromBody] Mahasiswa newMahasiswa)
        {
            mahasiswa.Add(newMahasiswa);
        }

        [HttpGet("index")]
        //memanggil 1 objek mahasiswa menggunakan index array
        0 references
        public Mahasiswa Get(int  index)
        {
            return mahasiswa[index];
        }

        [HttpDelete("index")]
        //menghapus objek mahasiswa sesuai dengan array listnya
        0 references
        public void Delete(int index)
        {
            mahasiswa.RemoveAt(index);
```

```csharp
[HttpDelete("index")]
//menghapus objek mahasiswa sesuai dengan array listnya
0 references
public void Delete(int index)
{
    mahasiswa.RemoveAt(index);
}

}
```

GET/api/Mahasiswa

GET	/api/Mahasiswa	∧

Parameters Cancel

No parameters

Execute	Clear

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7202/api/Mahasiswa' \
  -H 'accept: text/plain'
```

Request URL

```
https://localhost:7202/api/Mahasiswa
```

Server response

Code	Details
200	**Response body**

```
{
    "name": "Mochamad Rizky Evan Ramadhan",
    "nim": "1302213058",
    "course": [
      "Konstruksi Perangkat Lunak",
      "UX"
    ],
    "year": 2021
  },
  {
    "name": "Kamal Maula Azka Shidqi",
    "nim": "1302210032",
    "course": [
      "Basis Data",
      "UI"
    ],
    "year": 2022
  },
  {
    "name": "Ignaj nadhif",
    "nim": "1302213058",
    "course": [
      "Pemrograman Berorientasi Objek",
      "Proting"
    ],
    "year": 2023
  }
]
```

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POST /api/Mahasiswa

POST /api/Mahasiswa

Parameters

Cancel   Reset

No parameters

Request body   application/json ∨

```
{
  "name": "Rahman Ar rasyid",
  "nim": "1302213088",
  "course": [
    "Tugas Akhir"
  ],
  "year": 2019
}
```

Execute   Clear

Responses

Curl

```
curl -X 'POST' \
  'https://localhost:7202/api/Mahasiswa' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
  "name": "Rahman Ar rasyid",
  "nim": "1302213088",
  "course": [
    "Tugas Akhir"
  ],
  "year": 2019
}'
```

Request URL

GET/api/mahasiswa (Mengecek Kembali)

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7202/api/Mahasiswa' \
  -H 'accept: text/plain'
```

Request URL

```
https://localhost:7202/api/Mahasiswa
```

Server response

Code	Details
200	**Response body**

```
[
  {
    "name": "Mochamad Rizky Evan Ramadhan",
    "nim": "1302213058",
    "course": [
      "Konstruksi Perangkat Lunak",
      "UX"
    ],
    "year": 2021
  },
  {
    "name": "Kamal Maula Azka Shidqi",
    "nim": "1302210032",
    "course": [
      "Basis Data",
      "UI"
    ],
    "year": 2022
  },
  {
    "name": "Ignaj nadhif",
    "nim": "1302213058",
    "course": [
      "Pemrograman Berorientasi Objek",
      "Proting"
    ],
    "year": 2023
  },
```

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Response headers

```
content-type: application/json; charset=utf-8
date: Tue,18 Apr 2023 09:23:41 GMT
server: Kestrel
```

```
  },
  {
    "name": "Kamal Maula Azka Shidqi",
    "nim": "1302210032",
    "course": [
      "Basis Data",
      "UI"
    ],
    "year": 2022
  },
  {
    "name": "Ignaj nadhif",
    "nim": "1302213058",
    "course": [
      "Pemrograman Berorientasi Objek",
      "Proting"
    ],
    "year": 2023
  },
  {
    "name": "Rahman Ar rasyid",
    "nim": "1302213088",
    "course": [
      "Tugas Akhir"
    ],
    "year": 2019
  }
]
```

Download

GET/api/Mahasiswa/index

GET /api/Mahasiswa/index ∧

Parameters

Cancel

Name	Description
index **integer**($int32) *(query)*	3

Execute	Clear

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7202/api/Mahasiswa/index?index=3' \
  -H 'accept: text/plain'
```

Request URL

```
https://localhost:7202/api/Mahasiswa/index?index=3
```

Server response

Code	Details
200	**Response body**

```
{
  "name": "Rahman Ar rasyid",
  "nim": "1302213088",
  "course": [
    "Tugas Akhir"
  ],
  "year": 2019
}
```

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Response headers

DELETE /api/Mahasiswa/index

GET/api/mahasiswa (mengecek Kembali GET)