

Nama: Marvel Sanjaya Setiawan

NIM: 2311104053

Kelas: SE07-02

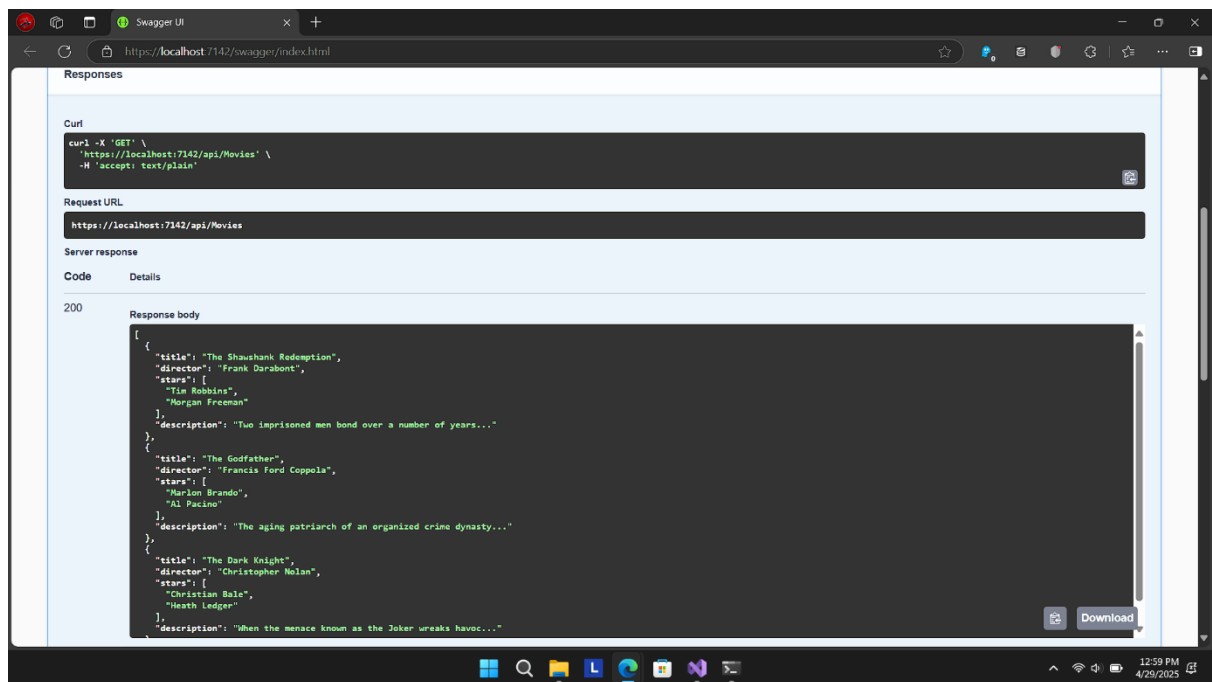
## JURNAL MODUL 9

Link github:

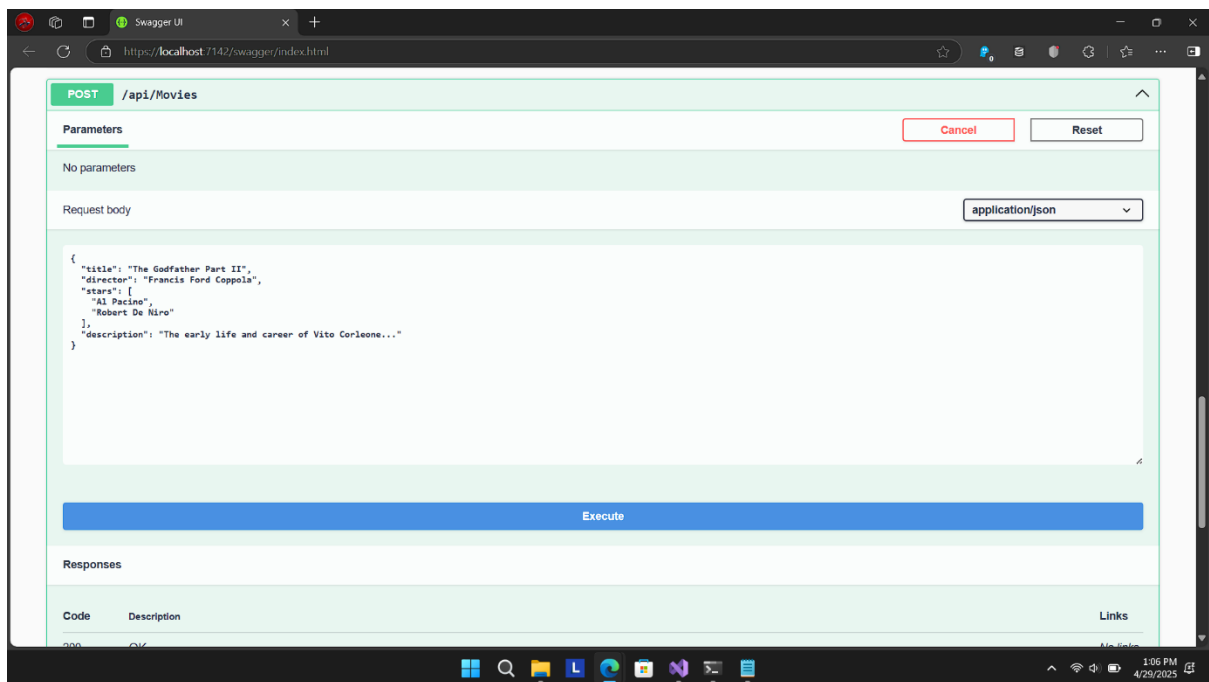
[https://github.com/Meph1sto14/KPL\\_Marvel\\_Sanjaya\\_Setiawan\\_2311104053\\_SE07-02/tree/cac931ac57a86f96c8b66056baf77009fd228b38/09\\_API\\_Design\\_dan\\_Construction\\_Using\\_Swagger/JURNAL/modul9\\_2311104053](https://github.com/Meph1sto14/KPL_Marvel_Sanjaya_Setiawan_2311104053_SE07-02/tree/cac931ac57a86f96c8b66056baf77009fd228b38/09_API_Design_dan_Construction_Using_Swagger/JURNAL/modul9_2311104053)

Hasil run:

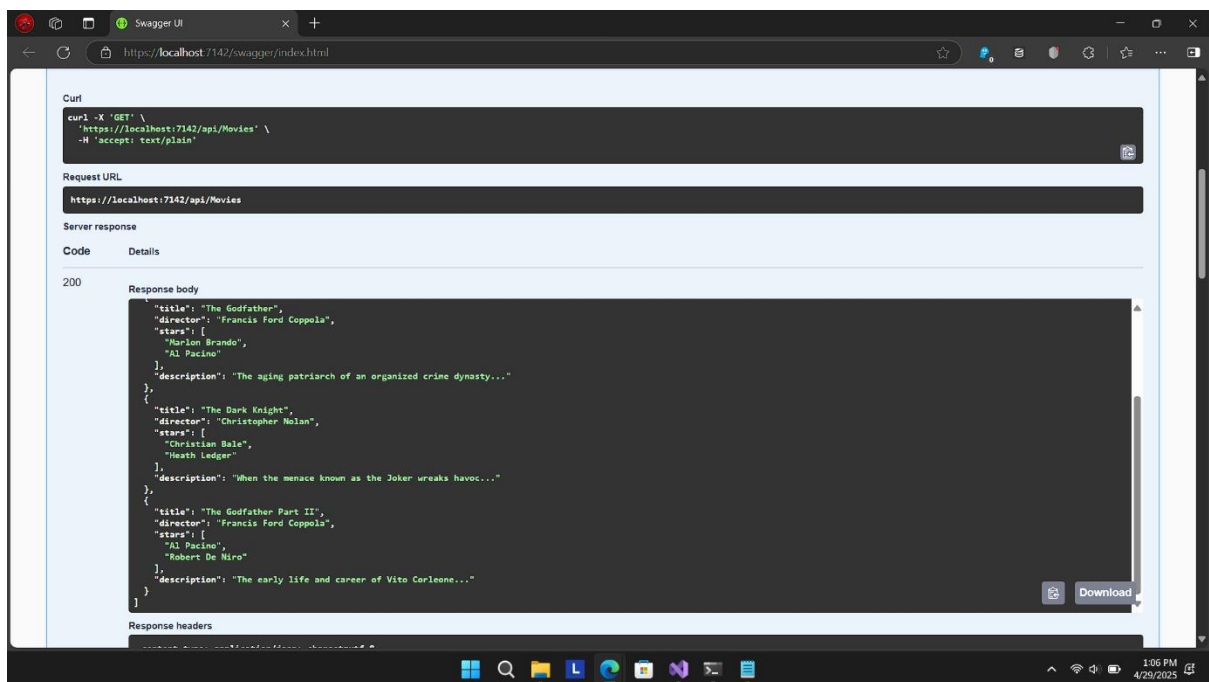
A. Menampilkan “GET /api/Movies”:



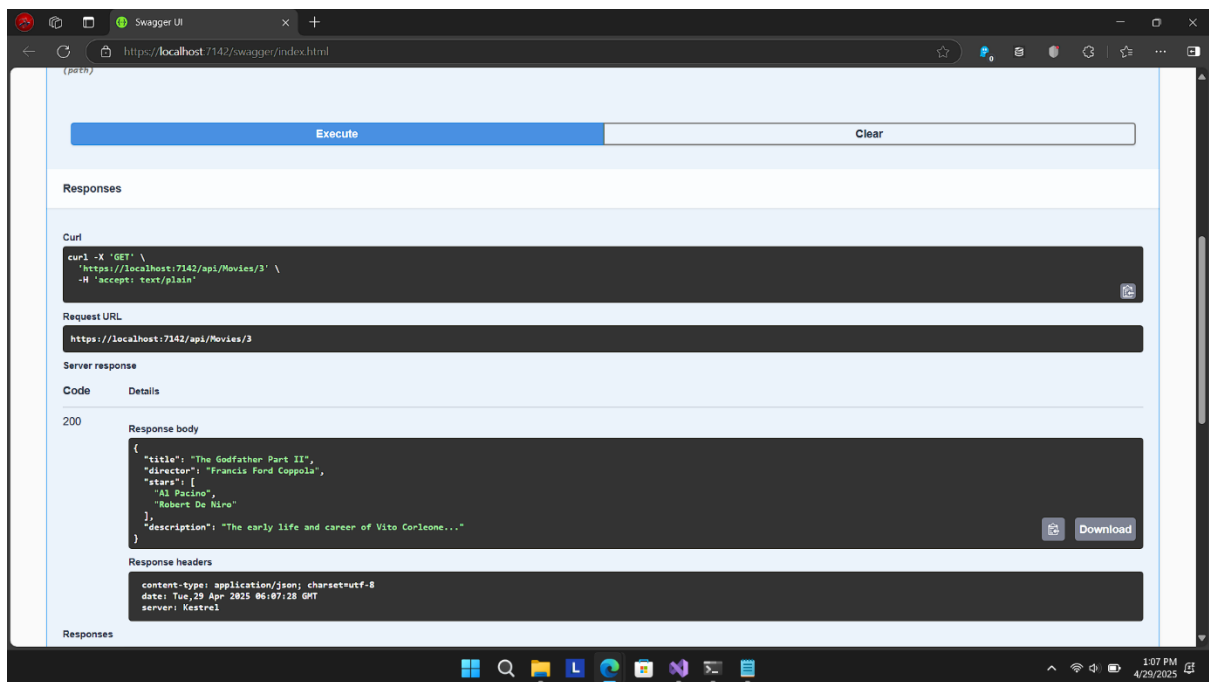
## B. Menambahkan Movie baru pada bagian “POST /api/Movies”:



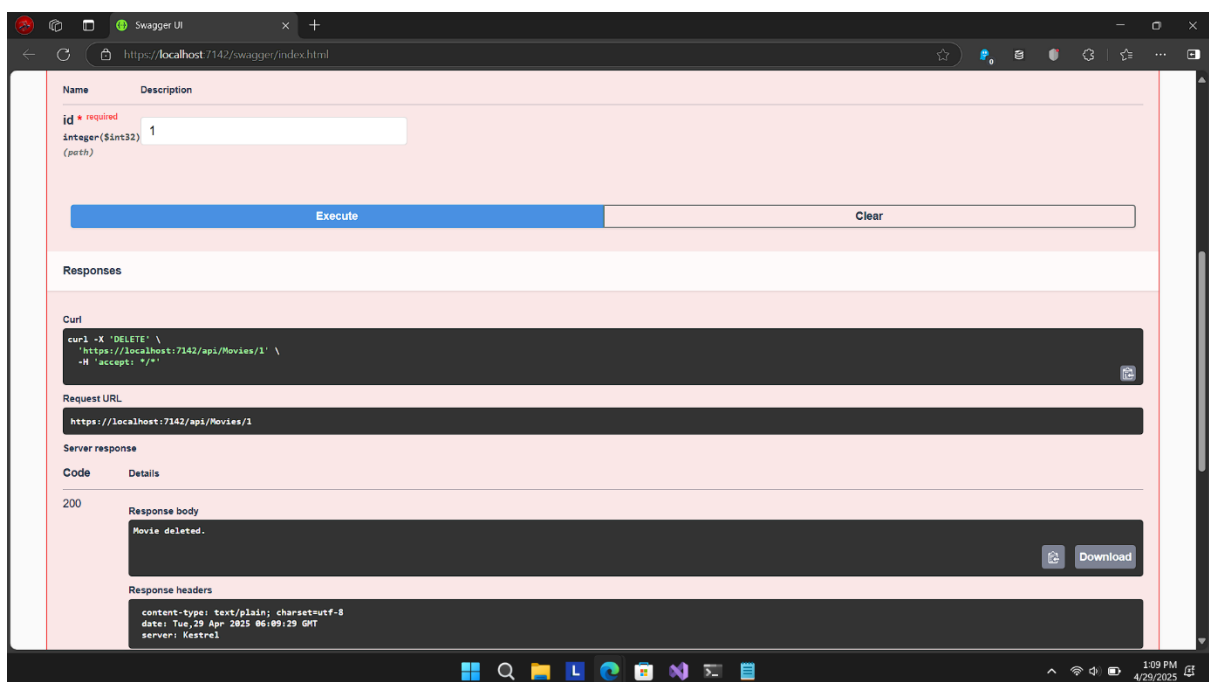
## C. Mengecek list array untuk memastikan Movie yang baru telah ditambahkan:



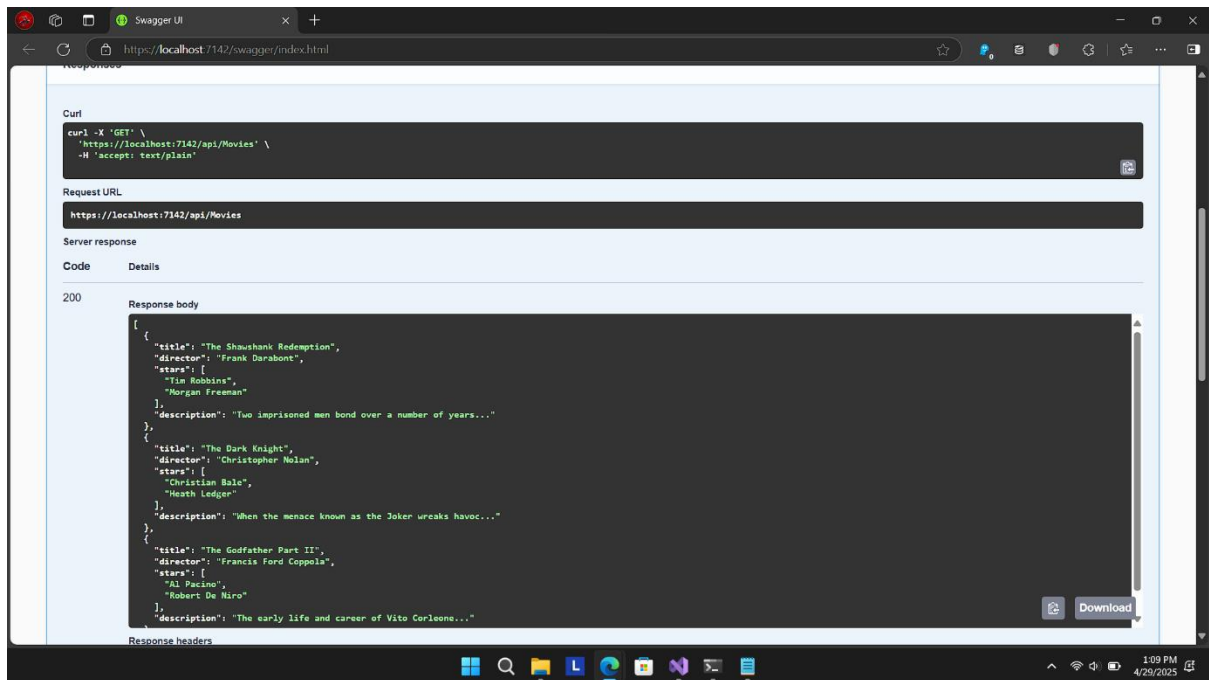
D. Mencoba menginput dan menampilkan Movie dengan indeks 3, “GET /api/Movies/3”:



E. Menghapus objek Movie dengan index ke-1 dengan “DELETE /api/Movies/1”:



F. Mengecek list/array dari semua Movie dengan “GET /api/Movies”, film dengan ranking kedua “Godfather” sudah tidak ada di list:



## MoviesController.cs

```
1. using Microsoft.AspNetCore.Mvc;
2. using modul9_2311104053.Models;
3.
4. namespace modul9_2311104053.Controllers
5. {
6.     [ApiController]
7.     [Route("api/[controller]")]
8.     public class MoviesController : ControllerBase
9.     {
10.         private static List<Movie> movies = new List<Movie>
11.         {
12.             new Movie
13.             {
14.                 Title = "The Shawshank Redemption",
15.                 Director = "Frank Darabont",
16.                 Stars = new List<string> { "Tim Robbins", "Morgan Freeman" },
17.                 Description = "Two imprisoned men bond over a number of years..."
18.             },
19.             new Movie
20.             {
21.                 Title = "The Godfather",
22.                 Director = "Francis Ford Coppola",
23.                 Stars = new List<string> { "Marlon Brando", "Al Pacino" },
24.                 Description = "The aging patriarch of an organized crime dynasty..."
25.             },
26.             new Movie
27.             {
28.                 Title = "The Dark Knight",
29.                 Director = "Christopher Nolan",
30.                 Stars = new List<string> { "Christian Bale", "Heath Ledger" },
31.                 Description = "When the menace known as the Joker wreaks havoc..."
32.             }
33.         };
34.
35.         [HttpGet]
```

```

36.     public ActionResult<IEnumerable<Movie>> GetAllMovies()
37.     {
38.         return Ok(movies);
39.     }
40.
41.     [HttpGet("{id}")]
42.     public ActionResult<Movie> GetMovieById(int id)
43.     {
44.         if (id < 0 || id >= movies.Count)
45.             return NotFound("Movie not found.");
46.         return Ok(movies[id]);
47.     }
48.
49.     [HttpPost]
50.     public ActionResult AddMovie([FromBody] Movie newMovie)
51.     {
52.         movies.Add(newMovie);
53.         return Ok("Movie added.");
54.     }
55.
56.     [HttpDelete("{id}")]
57.     public ActionResult DeleteMovie(int id)
58.     {
59.         if (id < 0 || id >= movies.Count)
60.             return NotFound("Movie not found.");
61.         movies.RemoveAt(id);
62.         return Ok("Movie deleted.");
63.     }
64. }
65. }
66.

```

## Movie.cs

```

1. namespace modul9_2311104053.Models
2. {
3.     public class Movie
4.     {
5.         public string Title { get; set; }
6.         public string Director { get; set; }
7.         public List<string> Stars { get; set; }
8.         public string Description { get; set; }
9.
10.        public Movie() { }
11.    }
12. }
13.

```

Penjelasan codingan:

### 1. MoviesController.cs

- REST API berbasis ASP.NET Core untuk mengelola data film.
- Kelas Movie menyimpan data film (Title, Director, Stars, Description).
- Diinisialisasi awal dengan 3 film: The Shawshank Redemption, The Godfather, dan The Dark Knight.
- List statis movies menyimpan data awal film sebelum API menerima input tambahan.

2. Endpoint API:

- GET /api/movies → Mengembalikan daftar seluruh film.
- GET /api/movies/{id} → Mengambil data film berdasarkan indeks dalam daftar.
- POST /api/movies → Menambahkan film baru ke daftar.
- DELETE /api/movies/{id} → Menghapus film berdasarkan indeks.

3. Movie.cs

- Model Movie digunakan untuk merepresentasikan data film dengan properti Title, Director, Stars, dan Description.