

NIM:

- Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7189/api/Movie' \
  -H 'accept: text/plain'
```

Request URL

https://localhost:7189/api/Movie

Server response

CodeDetails

200

Response body

```
[
  {
    "title": "The Shawshank Redemption",
    "director": "Frank Darabont",
    "stars": [
      "Tim Robbins",
      "Morgan Freeman",
      "Bob Gunton"
    ],
    "description": "Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency."
  },
  {
    "title": "The Godfather",
    "director": "Francis Ford Coppola",
    "stars": [
      "Marlon Brando",
      "Al Pacino",
      "James Caan"
    ],
    "description": "The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son."
  },
  {
    "title": "The Dark Knight",
    "director": "Christopher Nolan",
    "stars": [
      "Christian Bale",
      "Heath Ledger",
      "Alfred Molina"
    ],
    "description": "Batman returns to Gotham City to root out a corrupt police force and bring justice to the city."
  }
]
```

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Parameters

No parameters

Request body

application/json

```
{  "title": "The Lord of the Rings: The Return of the King",  "director": "Peter Jackson",  "stars": ["Elijah Wood", "Viggo Mortensen", "Ian McKellen"],  "description": "Gandalf and Aragorn lead the World of Men against Sauron's army to draw his gaze from Frodo and Sam as they approach Mount Doom with the One Ring."}
```

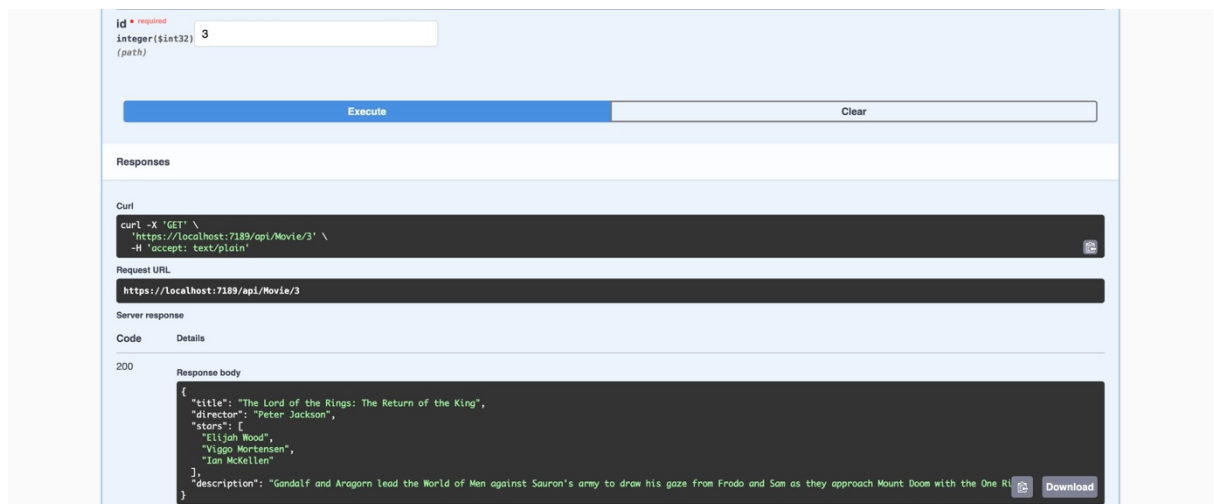
Execute

Clear

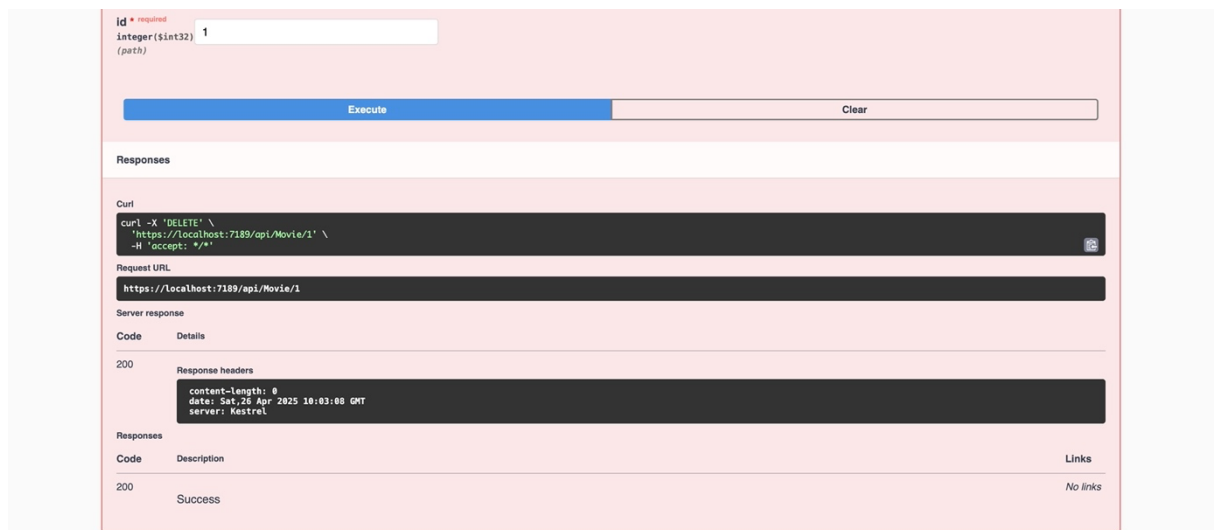
Melakukan cek list karena baru saja menambahkan data ke 4, dan ternyata ada:



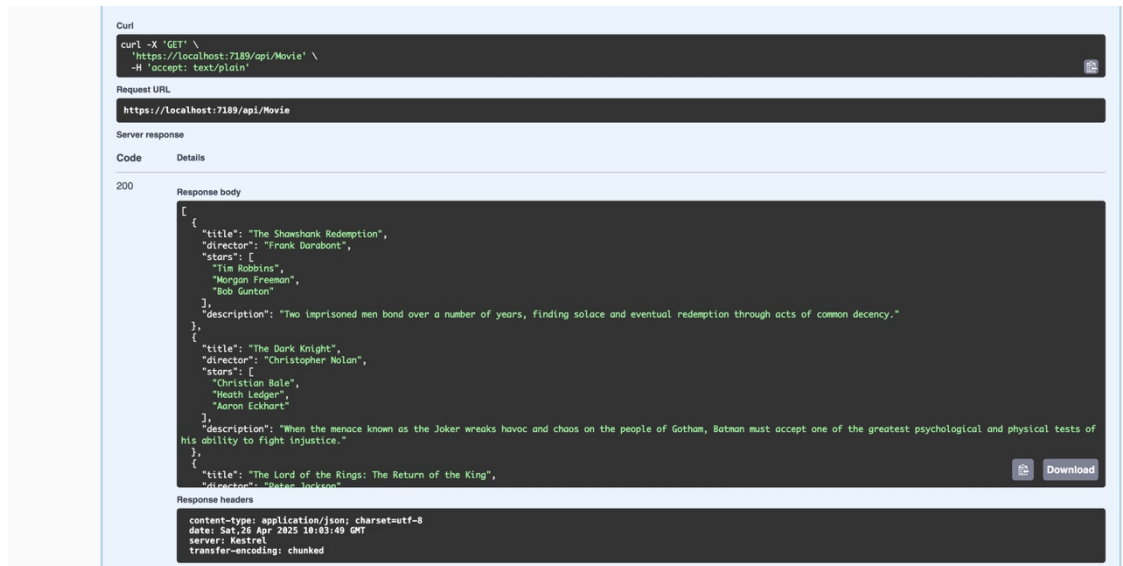
Memanggil movie dengan index (ke 3) yang harus menampilkan data (ke 4) yang baru saja ditambahkan:



Menghapus data ke 2 (index ke 1):



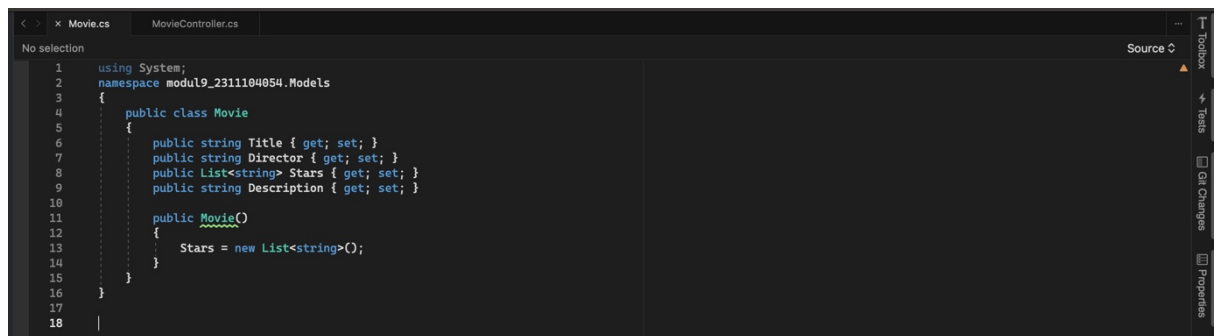
Melakukan cek list karena baru saja menghapus data ke 2, dan berhasil:



iii. Penjelasan Source Code

Models/Movie.cs

Movie.cs berisi definisi model data untuk merepresentasikan film. Model ini memiliki properti seperti 'Title' (judul film), 'Director' (sutradara), 'Stars' (daftar nama bintang), dan 'Description' (sinopsis). Konstruktor default diinisialisasi untuk memastikan 'Stars' selalu berupa list kosong jika tidak diberikan nilai. Struktur ini digunakan sebagai template untuk menyimpan dan mengelola data film di aplikasi.



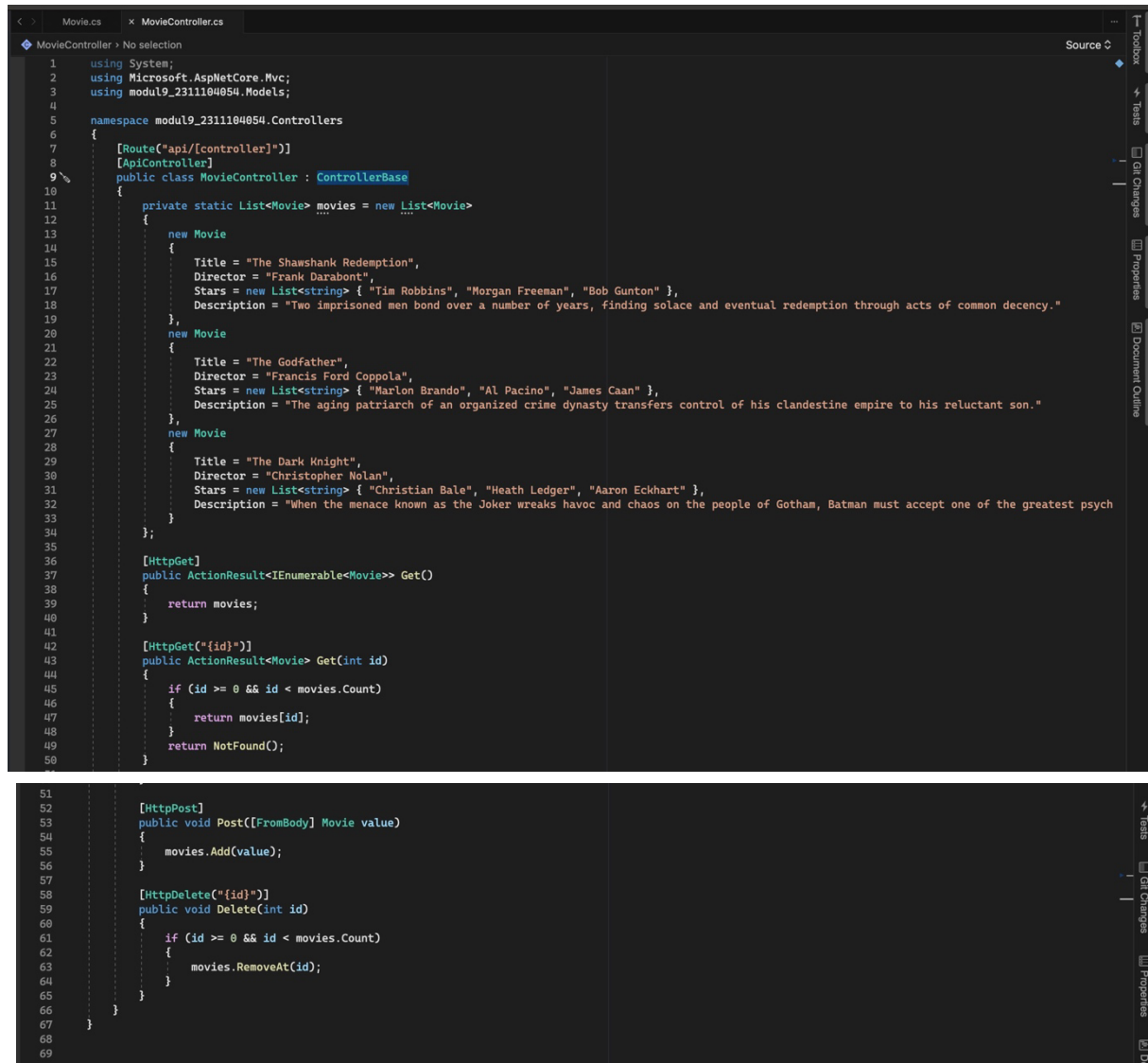
Controller/MovieController.cs

MovieController.cs merupakan API controller yang mengelola operasi CRUD untuk data film. Data disimpan sementara dalam list statis 'movies' yang sudah diisi dengan tiga contoh film terkenal. Controller menyediakan empat endpoint:

1. GET /api/movie: Menampilkan semua film.
2. GET /api/movie/{id}: Menampilkan film berdasarkan indeks.
3. POST /api/movie: Menambahkan film baru.

4. DELETE /api/movie/{id}: Menghapus film berdasarkan indeks.

Operasi dilakukan secara in-memory tanpa database, sehingga perubahan data tidak bersifat permanen setelah aplikasi berhenti.



```
1 using System;
2 using Microsoft.AspNetCore.Mvc;
3 using modul9_2311104054.Models;
4
5 namespace modul9_2311104054.Controllers
6 {
7     [Route("api/[controller]")]
8     [ApiController]
9     public class MovieController : ControllerBase
10     {
11         private static List<Movie> movies = new List<Movie>
12         {
13             new Movie
14             {
15                 Title = "The Shawshank Redemption",
16                 Director = "Frank Darabont",
17                 Stars = new List<string> { "Tim Robbins", "Morgan Freeman", "Bob Gunton" },
18                 Description = "Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency."
19             },
20             new Movie
21             {
22                 Title = "The Godfather",
23                 Director = "Francis Ford Coppola",
24                 Stars = new List<string> { "Marlon Brando", "Al Pacino", "James Caan" },
25                 Description = "The aging patriarch of an organized crime dynasty transfers control of his clandestine empire to his reluctant son."
26             },
27             new Movie
28             {
29                 Title = "The Dark Knight",
30                 Director = "Christopher Nolan",
31                 Stars = new List<string> { "Christian Bale", "Heath Ledger", "Aaron Eckhart" },
32                 Description = "When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psych
33             }
34         };
35
36         [HttpGet]
37         public ActionResult<IEnumerable<Movie>> Get()
38         {
39             return movies;
40         }
41
42         [HttpGet("{id}")]
43         public ActionResult<Movie> Get(int id)
44         {
45             if (id >= 0 && id < movies.Count)
46             {
47                 return movies[id];
48             }
49             return NotFound();
50         }
51
52         [HttpPost]
53         public void Post([FromBody] Movie value)
54         {
55             movies.Add(value);
56         }
57
58         [HttpDelete("{id}")]
59         public void Delete(int id)
60         {
61             if (id >= 0 && id < movies.Count)
62             {
63                 movies.RemoveAt(id);
64             }
65         }
66     }
67 }
68
69
```