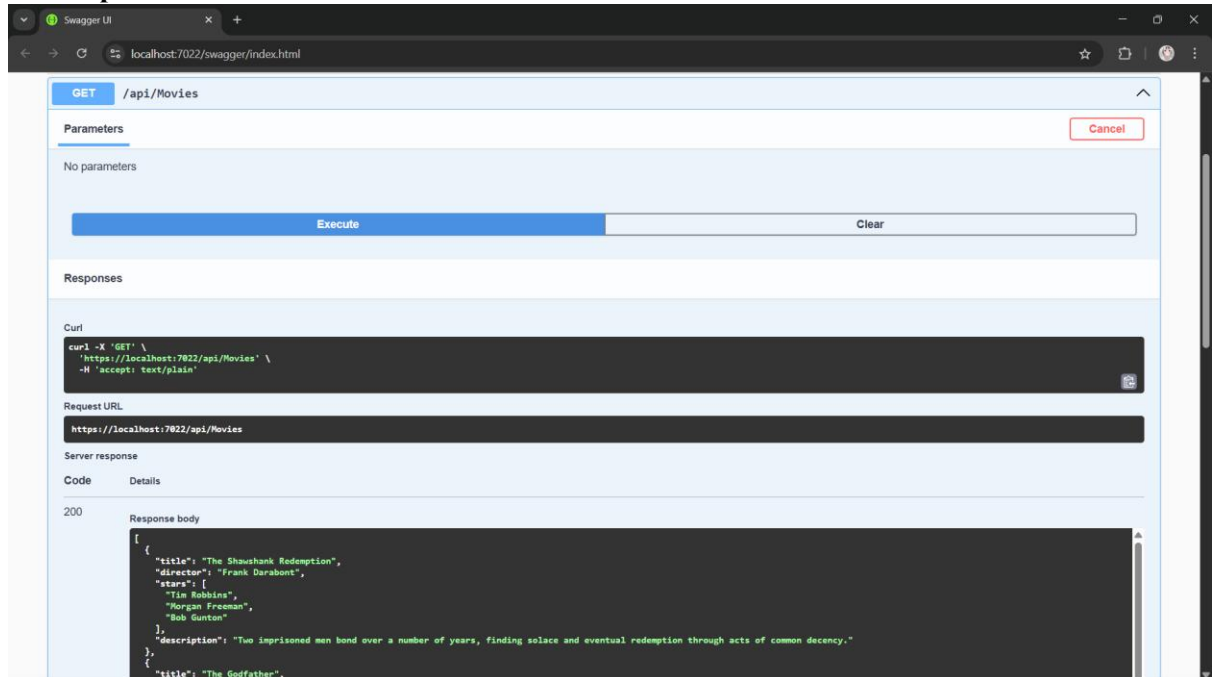


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## JURNAL MODUL 9

### A. GET /api/Movies



## B. POST /api/Movies

The image displays two screenshots of the Swagger UI interface, demonstrating a POST request to the `/api/Movies` endpoint.

**Top Screenshot: Request Configuration**

- Method:** POST
- Endpoint:** /api/Movies
- Parameters:** No parameters are defined for this endpoint.
- Request body:** The body is set to `application/json`. The JSON payload is:

```
{  "title": "Fight Club",  "director": "David Fincher",  "stars": [    "Brad Pitt", "Edward Norton", "Helena Bonham Carter"  ],  "description": "you do not talk about fight club"}
```
- Buttons:** "Execute" (blue) and "Clear" (grey).
- Responses:** The "Curl" section shows the command:

```
curl -X 'POST' \  'https://localhost:7022/api/Movies' \  -H 'accept: text/plain' \  -H 'Content-Type: application/json' \
```

**Bottom Screenshot: Response Details**

- Request URL:** `https://localhost:7022/api/Movies`
- Server response:** The response is a 200 status code.
- Response body:** The JSON response is:

```
{  "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", "Aaron Eckhart"  ],  "description": "When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests."}, {  "title": "Fight Club",  "director": "David Fincher",  "stars": [    "Brad Pitt", "Edward Norton", "Helena Bonham Carter"  ],  "description": "you do not talk about fight club"}
```
- Response headers:** `content-type: application/json; charset=utf-8`

## C. GET /api/Movies

The image displays two screenshots of the Swagger UI interface, showing the results of a GET request to the /api/Movies endpoint.

**Top Screenshot:** The interface shows the endpoint `GET /api/Movies`. The "Parameters" section indicates "No parameters". The "Execute" button is visible. The "Responses" section shows a 200 status code with a JSON response body:

```
{
  "title": "The Godfather",
  "director": "Francis Ford Coppola",
  "stars": [
    "Marlon Brando",
    "Al Pacino",
    "James Casn"
  ],
  "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",
    "Aaron Eckhart"
  ],
  "description": "When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests."
},
{
  "title": "Fight Club",
  "director": "David Fincher",
  "stars": [
    "Brad Pitt",
    "Edward Norton",
    "Helena Bonham Carter"
  ],
  "description": "you do not talk about fight club"
}
]
```

**Bottom Screenshot:** This screenshot shows the same endpoint after a query parameter has been added. The "Parameters" section now shows a parameter named `q` with the value `you do not talk about fight club`. The "Execute" button is clicked, and the "Responses" section shows a 200 status code with a JSON response body:

```
{
  "title": "The Godfather",
  "director": "Francis Ford Coppola",
  "stars": [
    "Marlon Brando",
    "Al Pacino",
    "James Casn"
  ],
  "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",
    "Aaron Eckhart"
  ],
  "description": "When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests."
},
{
  "title": "Fight Club",
  "director": "David Fincher",
  "stars": [
    "Brad Pitt",
    "Edward Norton",
    "Helena Bonham Carter"
  ],
  "description": "you do not talk about fight club"
}
]
```

The "Response headers" section shows the following headers:

```
content-type: application/json; charset=utf-8
date: Mon, 28 Apr 2025 17:28:53 GMT
server: Kestrel
```

## D. GET /api/Movies/3

Swagger UI interface for the GET /api/Movies/{id} endpoint. The interface is displayed in a browser window with the URL localhost:7022/swagger/index.html. The endpoint is highlighted in blue. The Parameters section shows a required integer path parameter named id with the value 3. The Execute button is highlighted in blue. The Responses section shows a 200 status code with a response body containing movie details for 'Fight Club'.

**GET** /api/Movies/{id}

**Parameters**

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

Execute Clear

**Responses**

**Curl**

```
curl -X 'GET' \
'https://localhost:7022/api/Movies/3' \
-H 'accept: text/plain'
```

**Request URL**

```
https://localhost:7022/api/Movies/3
```

**Server response**

**Code** **Details**

200

**Response body**

```
{
  "title": "Fight Club",
  "director": "David Fincher",
  "stars": [
    "Brad Pitt",
    "Edward Norton",
  ]
}
```

## E. DELETE /api/Movies/1

Swagger UI interface for the DELETE /api/Movies/{id} endpoint. The interface is displayed in a browser window with the URL localhost:7022/swagger/index.html. The endpoint is highlighted in red. The Parameters section shows a required integer path parameter named id with the value 1. The Execute button is highlighted in blue. The Responses section shows a 200 status code with a response body containing movie details for 'The Shawshank Redemption'.

**DELETE** /api/Movies/{id}

**Parameters**

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

Execute Clear

**Responses**

**Curl**

```
curl -X 'DELETE' \
'https://localhost:7022/api/Movies/1' \
-H 'accept: text/plain'
```

**Request URL**

```
https://localhost:7022/api/Movies/1
```

**Server response**

**Code** **Details**

200

**Response body**

```
{
  "title": "The Shawshank Redemption",
  "director": "Frank Darabont",
  "stars": [
    "Tim Robbins",
  ]
}
```

## F. GET /api/Movies

The image displays two screenshots of the Swagger UI interface, showing the GET /api/Movies endpoint.

**Top Screenshot:**

- Method:** GET
- Path:** /api/Movies
- Parameters:** No parameters
- Execute:** Button to execute the request
- Clear:** Button to clear the request
- Responses:** Section showing the response details
- Code:** 200
- Response body:** JSON array of movie data

**Bottom Screenshot:**

- Method:** GET
- Path:** /api/Movies
- Execute:** Button to execute the request
- Clear:** Button to clear the request
- Responses:** Section showing the response details
- Code:** 200
- Response body:** JSON array of movie data

**Response body (JSON):**

```
[{"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 Dark Knight", "director": "Christopher Nolan", "stars": ["Christian Bale", "Heath Ledger", "Aaron Eckhart"], "description": "When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests."}, {"title": "Fight Club", "director": "David Fincher", "stars": ["Brad Pitt", "Edward Norton", "Helena Bonham Carter"], "description": "A man who identifies himself only as 'The Narrator,' a name he uses in a series of voice-over monologues, is a member of a support group for men with testicular problems. He is also a member of a secret society of men who fight each other for fun."}]
```

## Source Code

### Movie.cs

```
using System.Collections.Generic;
using modul9_2311104058;

namespace MovieApi.Models
{
    public class Movie
    {
        public string Title { get; set; }
        public string Director { get; set; }
        public List<string> Stars { get; set; }
        public string Description { get; set; }

        public Movie()
        {
            Stars = new List<string>();
        }
    }
}
```

Kode tersebut mendefinisikan sebuah class bernama Movie dalam namespace MovieApi.Models. Class ini merepresentasikan data sebuah film, dengan properti Title (judul film), Director (sutradara), Stars (daftar nama pemeran utama), dan Description (deskripsi film). Properti Stars bertipe List<string>, yang diinisialisasi di konstruktor Movie() agar tidak null saat objek dibuat. Class ini menggunakan fitur auto-implemented properties di C# untuk memudahkan pengaturan nilai properti.

### MoviesController.cs

```
using Microsoft.AspNetCore.Mvc;
using MovieApi.Models;
using System.Collections.Generic;
using modul9_2311104058;

namespace MovieApi.Controllers
{
    [Route("api/[controller]")]
    [ApiController]
    public class MoviesController : ControllerBase
    {
        private static List<Movie> movies = new List<Movie>
        {
            new Movie
            {
                Title = "The Shawshank Redemption",
                Director = "Frank Darabont",
                Stars = new List<string> { "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."
            },
            new Movie
            {
                Title = "The Godfather",
                Director = "Francis Ford Coppola",
                Stars = new List<string> { "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."
            },
            new Movie
            {
                Title = "The Dark Knight",
                Director = "Christopher Nolan",
                Stars = new List<string> { "Christian Bale", "Heath Ledger", "Aaron Eckhart" },
                Description = "When the menace known as the Joker wreaks havoc and chaos on the people of Gotham, Batman must accept one of the greatest psychological and physical tests."
            }
        };
        // GET: api/Movies
        [HttpGet]
        public ActionResult<IEnumerable<Movie>> GetMovies()
        {
            return movies;
        }
        // GET: api/Movies/{id}
        [HttpGet("{id}")]
    }
}
```

```

public ActionResult<Movie> GetMovie(int id)
{
    if (id < 0 || id >= movies.Count)
        return NotFound();
    return movies[id];
}
// POST: api/Movies
[HttpPost]
public ActionResult<IEnumerable<Movie>> PostMovie(Movie movie)
{
    movies.Add(movie);
    return movies;
}
// DELETE: api/Movies/{id}
[HttpDelete("{id}")]
public ActionResult<IEnumerable<Movie>> DeleteMovie(int id)
{
    if (id < 0 || id >= movies.Count)
        return NotFound();

    movies.RemoveAt(id);
    return movies;
}
}
}

```

Kode di atas mendefinisikan sebuah controller bernama MoviesController dalam namespace MovieApi.Controllers, yang berfungsi untuk mengelola data film menggunakan Web API di ASP.NET Core. Controller ini menyediakan endpoint API untuk mengambil semua film (GET api/Movies), mengambil film berdasarkan ID (GET api/Movies/{id}), menambahkan film baru (POST api/Movies), dan menghapus film berdasarkan ID (DELETE api/Movies/{id}). Data film disimpan di dalam list statis movies, yang sudah diisi tiga data film secara default. Setiap metode API menangani request HTTP sesuai atribut yang diberikan, dan mengembalikan data atau status error seperti NotFound jika data tidak ditemukan.