



TUGAS JURNAL
KONSTRUKSI PERANGKAT LUNAK
MODUL 9

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OLEH :
TIURMA GRACE ANGELINA – 2311104042
S1-SE07-02

Dosen :
YIS

Prodi S1 Rekaya Perangkat Lunak
Direktorat Kampus Purwokerto

1. MELAKUKAN GIT COMMIT PADA PROJECT YANG DIBUAT

```
C:\WINDOWS\system32\cmd.exe
*****
** Visual Studio 2022 Developer Command Prompt v17.13.0
** Copyright (c) 2022 Microsoft Corporation
*****

C:\Users\USER\source\repos\KPL_TiurmaGraceA_2311104042_S1SE-07-02\09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042>git add tjmod9_2311104042

C:\Users\USER\source\repos\KPL_TiurmaGraceA_2311104042_S1SE-07-02\09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042>git commit -m "up .gitignore"
[main 3d4fcac] up .gitignore
9 files changed, 547 insertions(+)
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\.gitignore
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\Controllers\WeatherForecastController.cs
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\Program.cs
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\Properties\launchSettings.json
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\WeatherForecast.cs
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\appsettings.Development.json
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\appsettings.json
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\csproj
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\tjmod9_2311104042.http

C:\Users\USER\source\repos\KPL_TiurmaGraceA_2311104042_S1SE-07-02\09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042>git push origin main
Enumerating objects: 18, done.
Counting objects: 100% (18/18), done.
Delta compression using up to 12 threads
Compressing objects: 100% (14/14), done.
Writing objects: 100% (16/16), 5.58 KiB | 285.00 KiB/s, done.
Total 16 (deltas 2), reused 0 (deltas 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/tiurmaGrace/KPL_TiurmaGraceA_2311104042_S1SE-07-02.git
5c25967..3d4fcac main -> main

C:\Users\USER\source\repos\KPL_TiurmaGraceA_2311104042_S1SE-07-02\09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042>_
```

2. IMPLEMENTASI WEB API

Code class class yg ditambahkan :

1. class Movie.cs di folder Models:

```
namespace tjmod9_2311104042.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>();
        }
    }
}
```

2. class MoviesController.cs di folder Controllers:

```
using Microsoft.AspNetCore.Mvc;
using tjmod9_2311104042.Models;

namespace tjmod9_2311104042.Controllers
{
```

```

[ApiController]
[Route("api/[controller]")]
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",
"MorganFreeman"},
            Description = "Two imprisoned men bond over
anumber of years, finding solace and eventual redemption through
cts of common decency."
        },
        new Movie {
            Title = "The Godfather",
            Director = "Francis Ford Coppola",
            Stars = new List<string>{"Marlon Brando", "Al Pacino"},
            Description = "An organized crime dynasty's
agingpatriarch transfers control of his clandestine empire to his
relutant son."
        },
        new Movie {
            Title = "The Dark Knight",
            Director = "Christopher Nolan",
            Stars = new List<string>{"Christian Bale",
"HeathLedger"},
            Description = "When the menace known as the Joker
emerges, he wreaks havoc and chaos on the people of Gotham."
        }
    };

    [HttpGet]
    public ActionResult<List<Movie>> GetMovies()
    {
        return Ok(movies);
    }

    [HttpGet("{id}")]
    public ActionResult<Movie> GetMovie(int id)
    {
        if (id < 0 || id >= movies.Count)
        {
            return NotFound();
        }
        return Ok(movies[id]);
    }

    [HttpPost]
    public ActionResult<Movie> CreateMovie(Movie newMovie)
    {
        movies.Add(newMovie);
        return Ok(newMovie);
    }

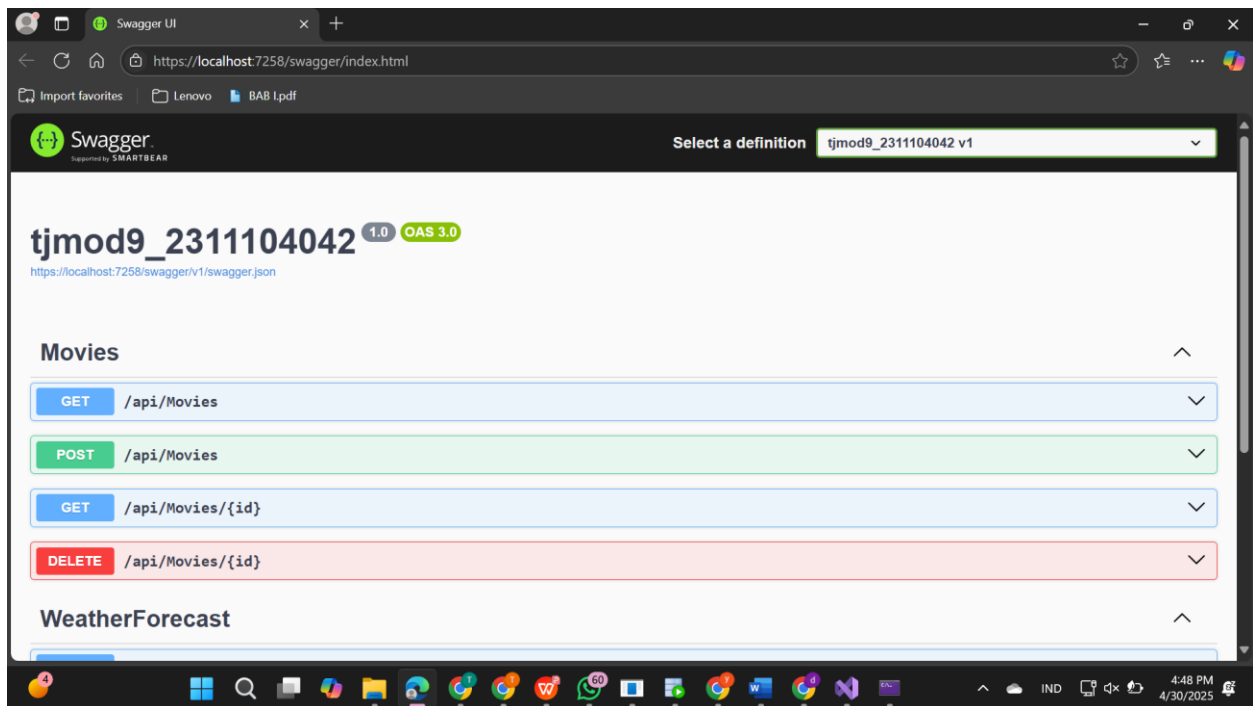
    [HttpDelete("{id}")]
    public IActionResult DeleteMovie(int id)

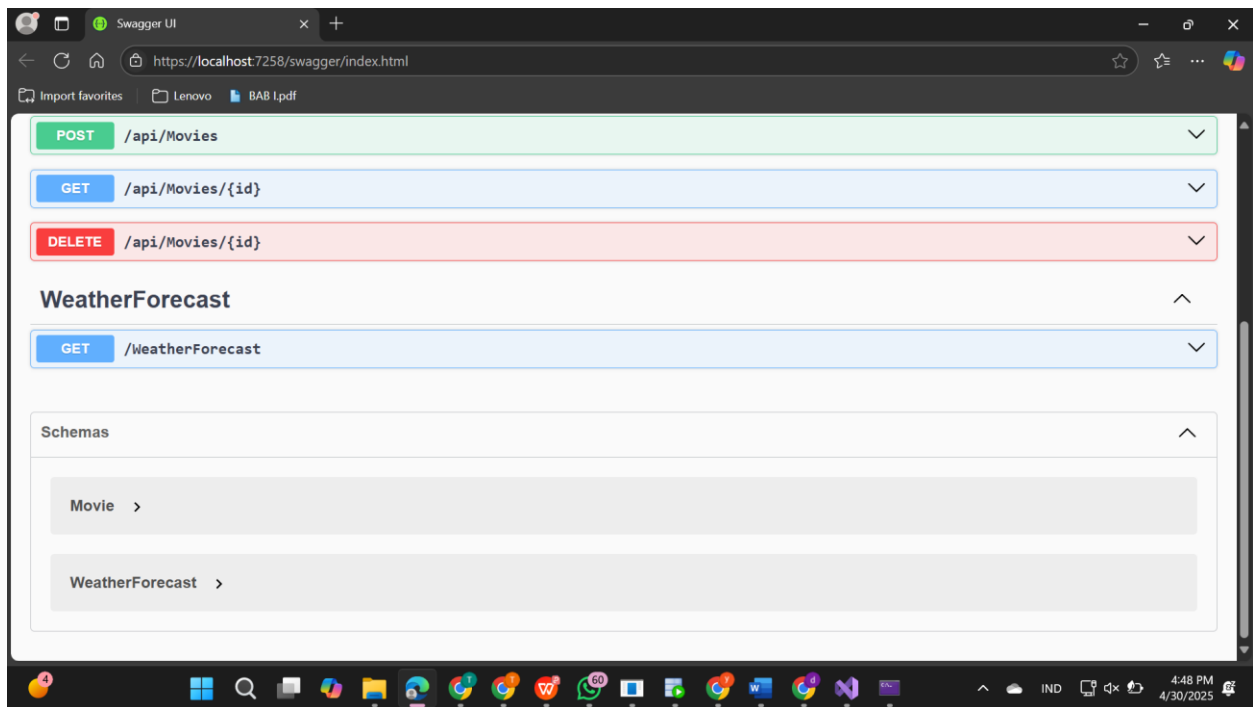
```

```
        {  
            if (id < 0 || id >= movies.Count)  
            {  
                return NotFound();  
            }  
            movies.RemoveAt(id);  
            return NoContent();  
        }  
    }  
}
```

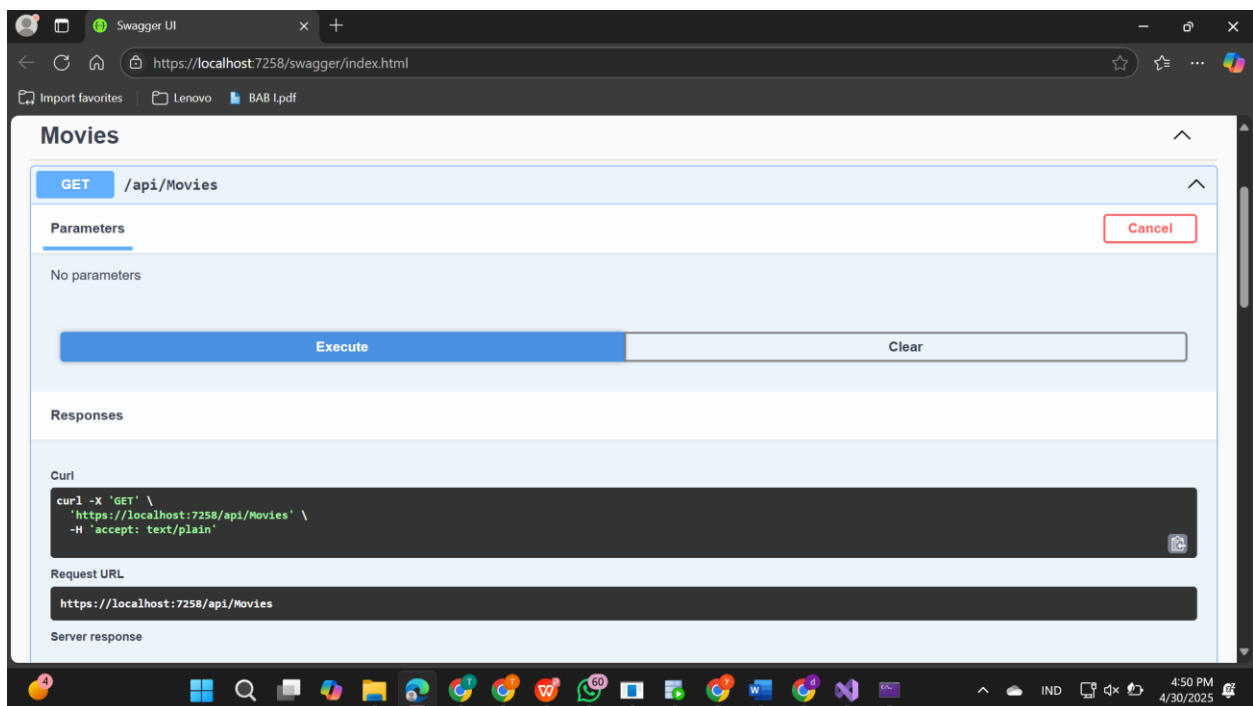
Output :

Tampilan Awal





GET /api/Movies



Swagger UI

https://localhost:7258/swagger/index.html

Server response

Code	Details
200	<p>Response body</p> <pre>[{ "title": "The Shawshank Redemption", "director": "Frank Darabont", "stars": ["Tim Robbins", "Morgan Freeman"], "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"], "description": "An organized crime dynasty's aging patriarch transfers control of his clandestine empire to his reluctant son." }, { "title": "The Dark Knight", "director": "Christopher Nolan", "stars": ["Christian Bale", "Heath Ledger"], "description": "When the menace known as the Joker emerges, he wreaks havoc and chaos on the people of Gotham." }]</pre> <p>Response headers</p> <pre>content-type: application/json; charset=utf-8</pre>

4:51 PM 4/30/2025

Swagger UI

https://localhost:7258/swagger/index.html

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 30 Apr 2025 09:50:31 GMT
server: Kestrel
```

Responses

Code	Description	Links
200	OK	No links

Media type

text/plain

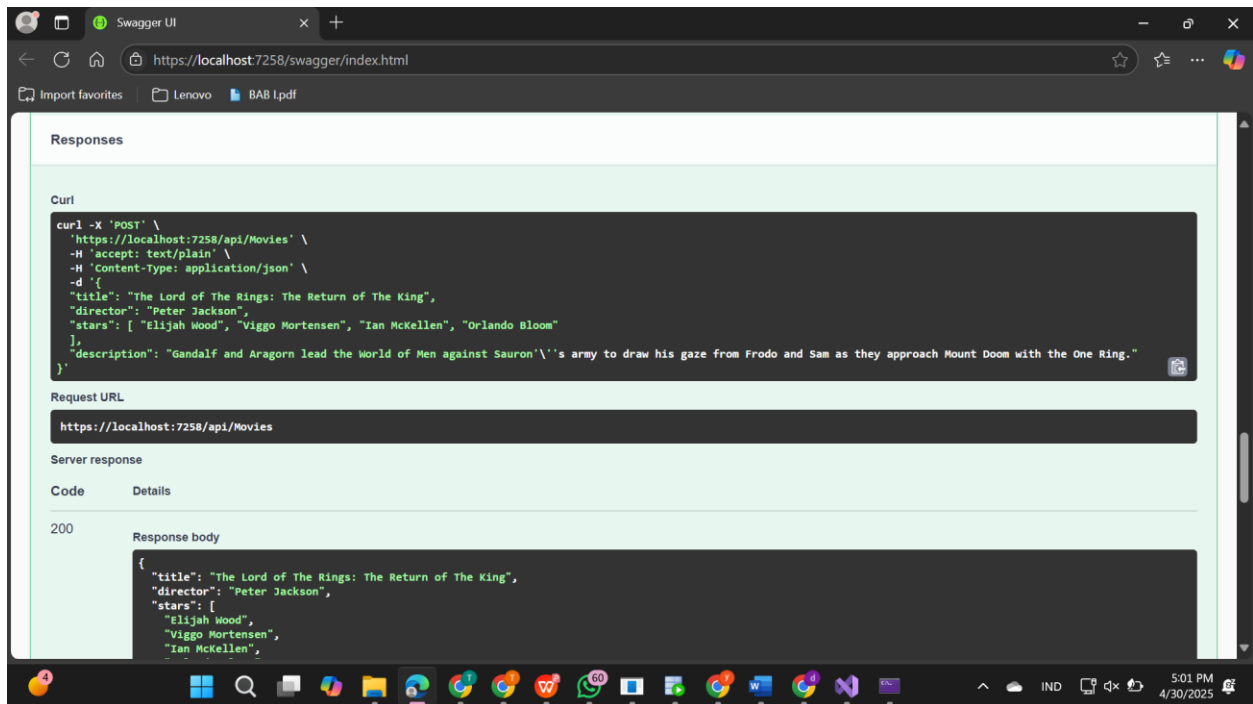
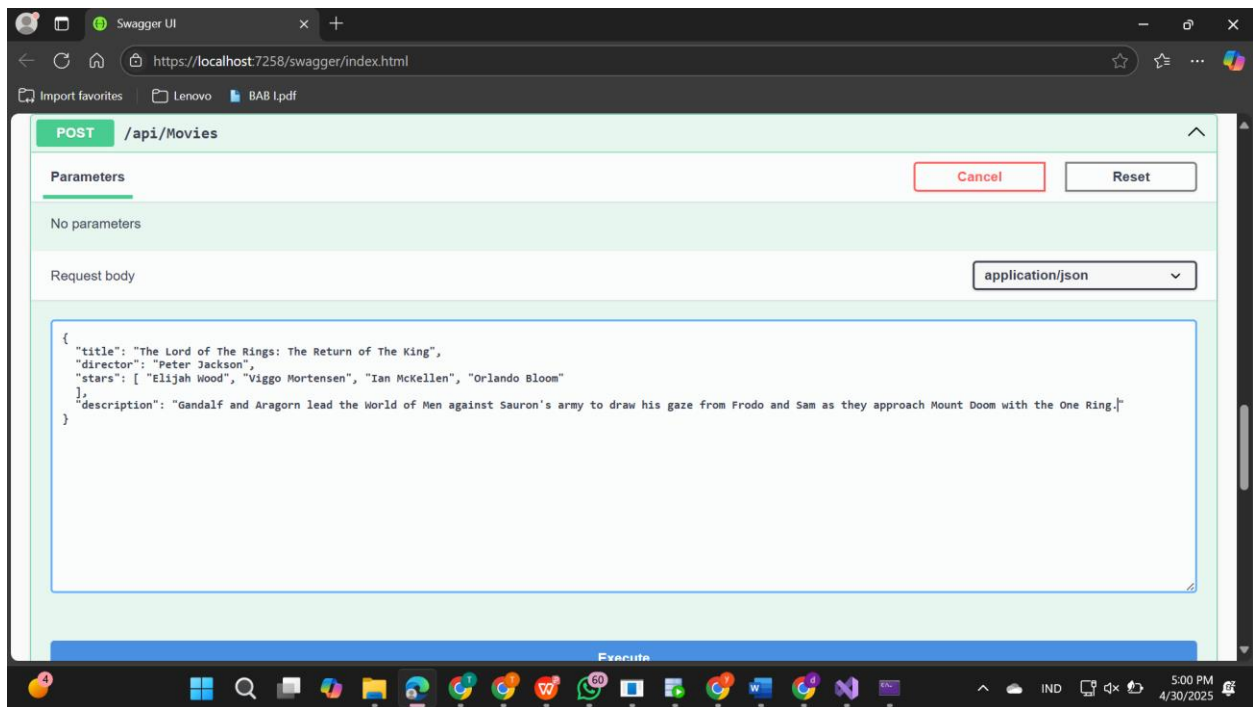
Controls Accept header.

Example Value | Schema

```
[
  {
    "title": "string",
    "director": "string",
    "stars": [
      "string"
    ],
    "description": "string"
  }
]
```

4:52 PM 4/30/2025

POST /api/Movies



Swagger UI

https://localhost:7258/swagger/index.html

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```
{
  "title": "The Lord of The Rings: The Return of The King",
  "director": "Peter Jackson",
  "stars": [
    "Elijah Wood",
    "Viggo Mortensen",
    "Ian McKellen",
    "Orlando Bloom"
  ],
  "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."
}
```

Download

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 30 Apr 2025 10:00:55 GMT
server: Kestrel
```

Responses

Code	Description	Links
200	OK	No links

Media type

text/plain

Controls Accept header.

Example Value | Schema

```
{
  "title": "string",
  "director": "string",
  "stars": [
    "string"
  ],
  "description": "string"
}
```

5:01 PM 4/30/2025

Swagger UI

https://localhost:7258/swagger/index.html

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```
"Orlando Bloom"
},
"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."
}
```

Download

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 30 Apr 2025 10:00:55 GMT
server: Kestrel
```

Responses

Code	Description	Links
200	OK	No links

Media type

text/plain

Controls Accept header.

Example Value | Schema

```
{
  "title": "string",
  "director": "string",
  "stars": [
    "string"
  ],
  "description": "string"
}
```

5:01 PM 4/30/2025

Cek list/array dari semua Movie lagi dengan “GET /api/Movies”

The image shows the Swagger UI interface in a web browser. The URL bar displays `https://localhost:7258/swagger/index.html`. The main panel is titled "GET /api/Movies". Under the "Parameters" tab, it states "No parameters". There are "Execute" and "Clear" buttons. The "Responses" section shows a "Curl" command: `curl -X 'GET' \ 'https://localhost:7258/api/Movies' \ -H 'accept: text/plain'`. The "Request URL" is `https://localhost:7258/api/Movies`. The "Server response" section shows a "Code" of 200 and a "Details" link.

The image shows the Swagger UI interface with the "Details" tab selected for the 200 response. The "Response body" is displayed as a JSON array of movie objects. The "Response headers" are also visible.

```
[
  {
    "title": "The Shawshank Redemption",
    "director": "Frank Darabont",
    "stars": [
      "Tim Robbins",
      "Morgan Freeman"
    ],
    "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"
    ],
    "description": "An organized crime dynasty's aging patriarch transfers control of his clandestine empire to his reluctant son."
  },
  {
    "title": "The Dark Knight",
    "director": "Christopher Nolan",
    "stars": [
      "Christian Bale",
      "Heath Ledger"
    ],
    "description": "When the menace known as the Joker emerges, he wreaks havoc and chaos on the people of Gotham."
  }
]
```

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 30 Apr 2025 10:01:46 GMT
server: Kestrel
```

Swagger UI

https://localhost:7258/swagger/index.html

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200

Response body

```
{
  "description": "When the menace known as the Joker emerges, he wreaks havoc and chaos on the people of Gotham.",
},
{
  "title": "The Lord of The Rings: The Return of The King",
  "director": "Peter Jackson",
  "stars": [
    "Elijah Wood",
    "Viggo Mortensen",
    "Ian McKellen",
    "Orlando Bloom"
  ],
  "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."
},
{
  "title": "The Lord of The Rings: The Return of The King",
  "director": "Peter Jackson",
  "stars": [
    "Elijah Wood",
    "Viggo Mortensen",
    "Ian McKellen",
    "Orlando Bloom"
  ],
  "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."
}
}
```

Download

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 30 Apr 2025 10:01:46 GMT
server: Kestrel
```

Responses

Swagger UI

https://localhost:7258/swagger/index.html

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Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 30 Apr 2025 10:01:46 GMT
server: Kestrel
```

Responses

Code	Description	Links
200	OK	No links

Media type

text/plain

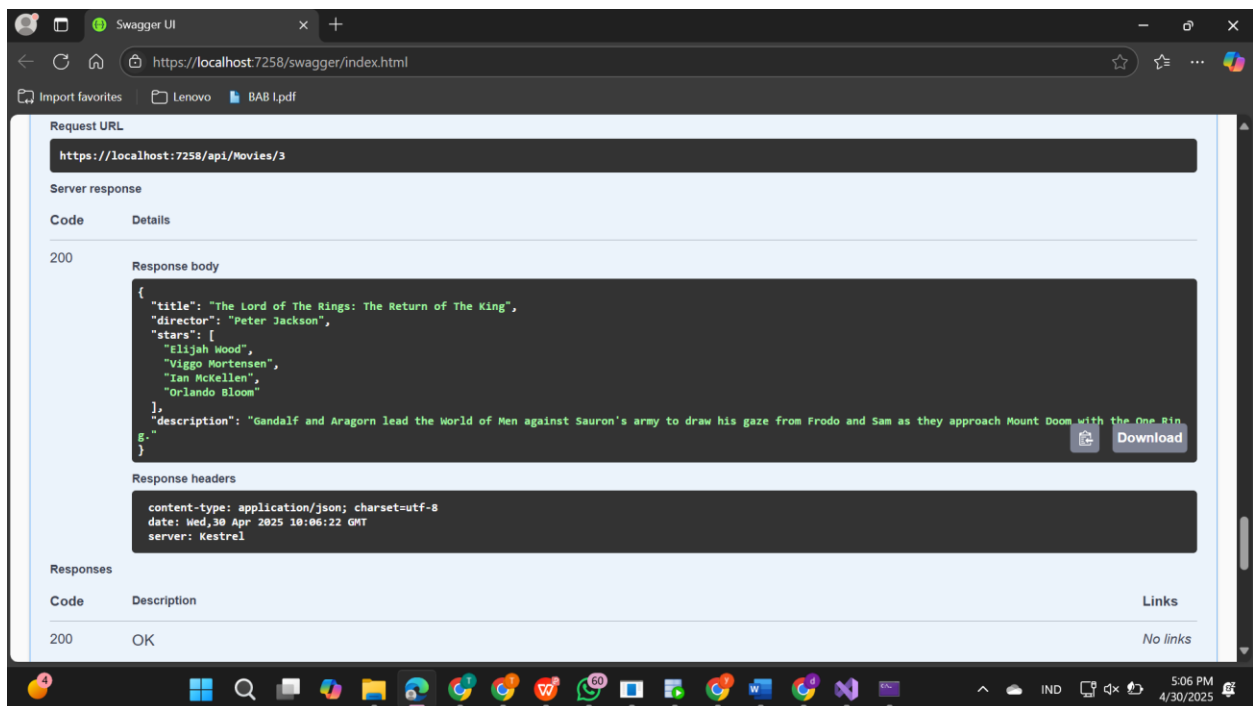
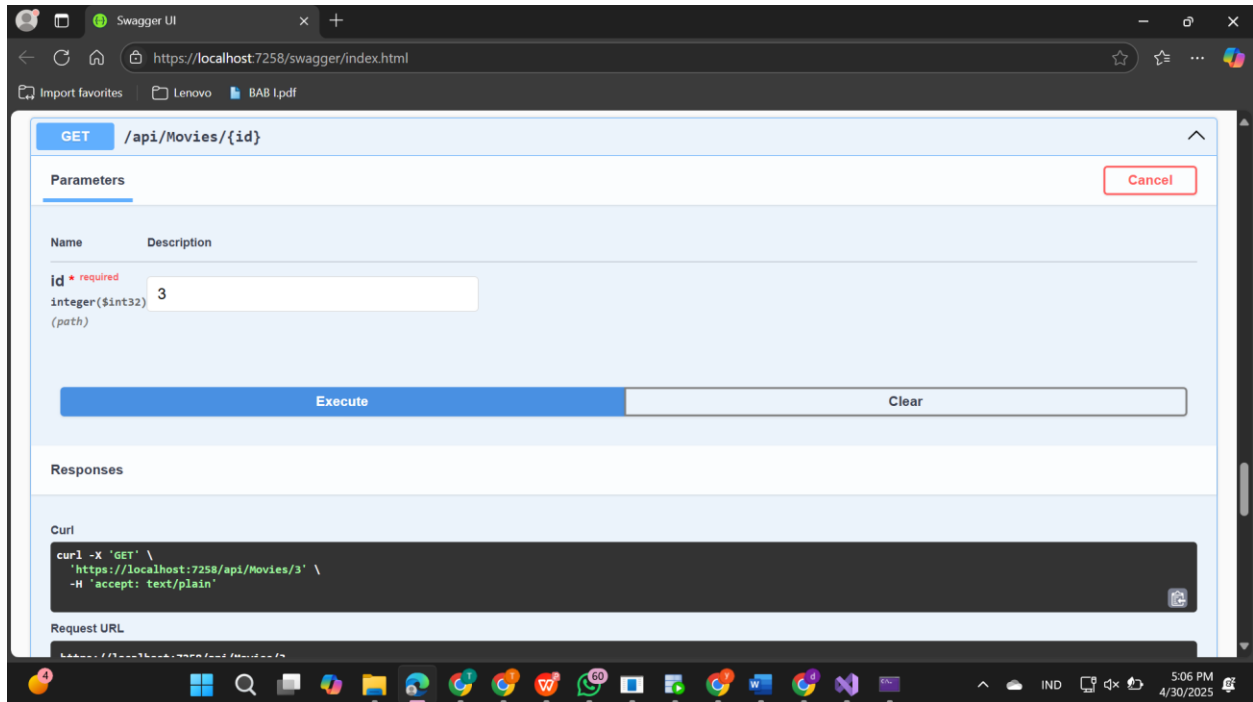
Controls Accept header.

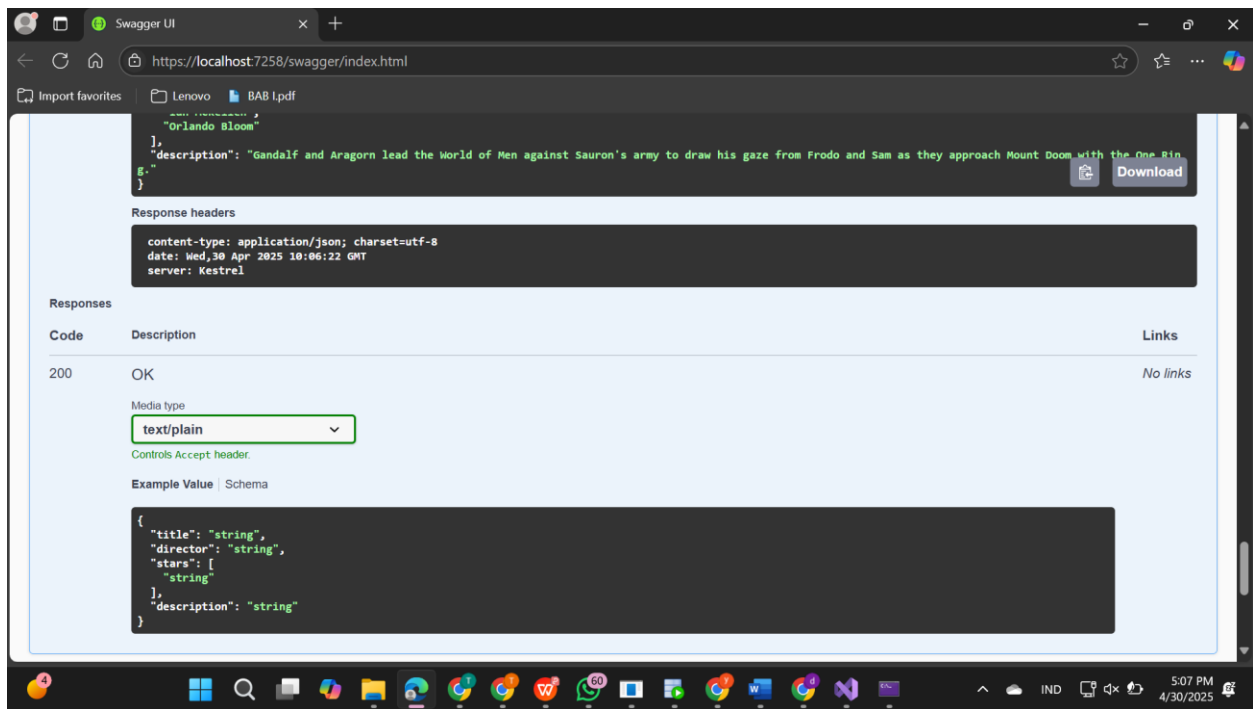
Example Value | Schema

```
{
  "title": "string",
  "director": "string",
  "stars": [
    "string"
  ],
  "description": "string"
}
```

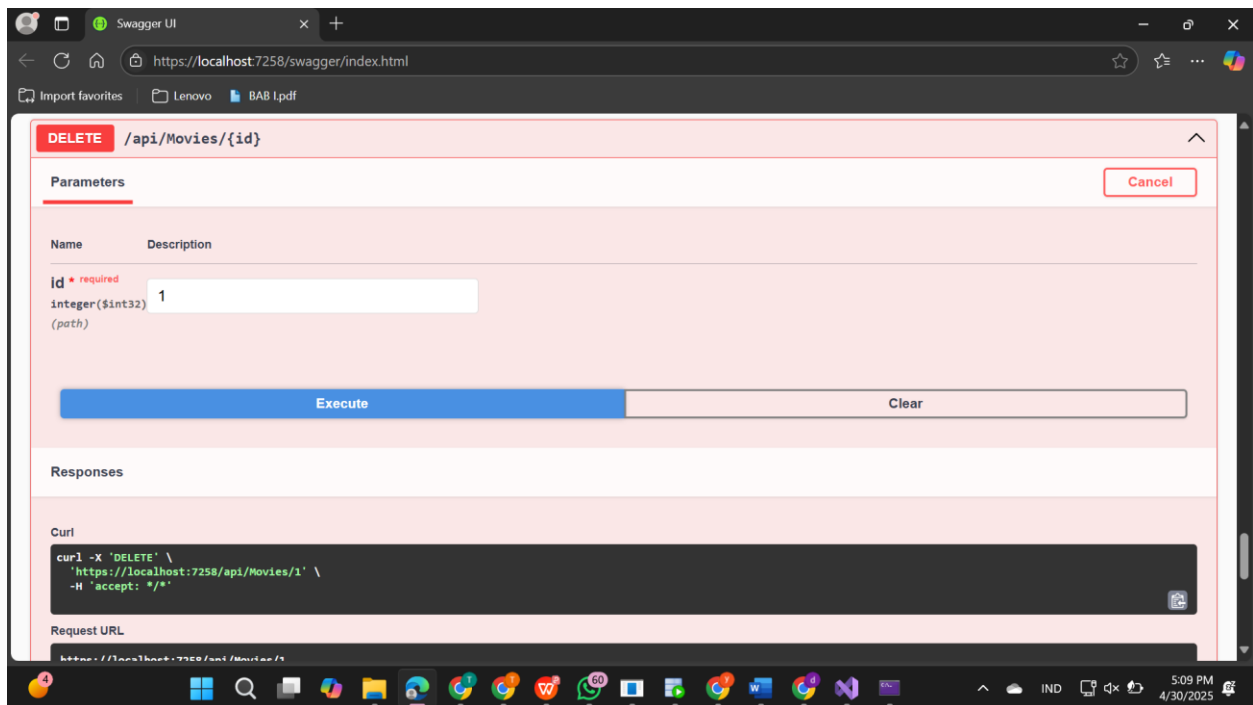
POST /api/Movies

Mencoba meminta Movie dengan index 3, "GET /api/Movies/3"





Menghapus objek Movie dengan index ke-1 dengan "DELETE /api/Movies/1"



Swagger UI

https://localhost:7258/swagger/index.html

Responses

Curl

```
curl -X 'DELETE' \
  'https://localhost:7258/api/Movies/1' \
  -H 'accept: */*'
```

Request URL

https://localhost:7258/api/Movies/1

Server response

Code	Details
204	Response headers

204
Undocumented

```
date: Wed,30 Apr 2025 10:09:13 GMT
server: Kestrel
```

Responses

Code	Description	Links
200	OK	No links

Swagger UI

https://localhost:7258/swagger/index.html

GET /api/Movies

Parameters

No parameters

Execute Clear

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7258/api/Movies' \
  -H 'accept: text/plain'
```

Request URL

https://localhost:7258/api/Movies

Server response

Code	Details
200	

Swagger UI

https://localhost:7258/swagger/index.html

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Code Details

200

Response body

```
[
  {
    "title": "The Shawshank Redemption",
    "director": "Frank Darabont",
    "stars": [
      "Tim Robbins",
      "Morgan Freeman"
    ],
    "description": "Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency."
  },
  {
    "title": "The Lord of The Rings: The Return of The King",
    "director": "Peter Jackson",
    "stars": [
      "Elijah Wood",
      "Viggo Mortensen",
      "Ian McKellen",
      "Orlando Bloom"
    ],
    "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."
  },
  {
    "title": "The Lord of The Rings: The Return of The King",
    "director": "Peter Jackson",
    "stars": [
      "Elijah Wood",

```

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 30 Apr 2025 10:11:03 GMT
```

5:11 PM 4/30/2025

Swagger UI

https://localhost:7258/swagger/index.html

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Code Details

200

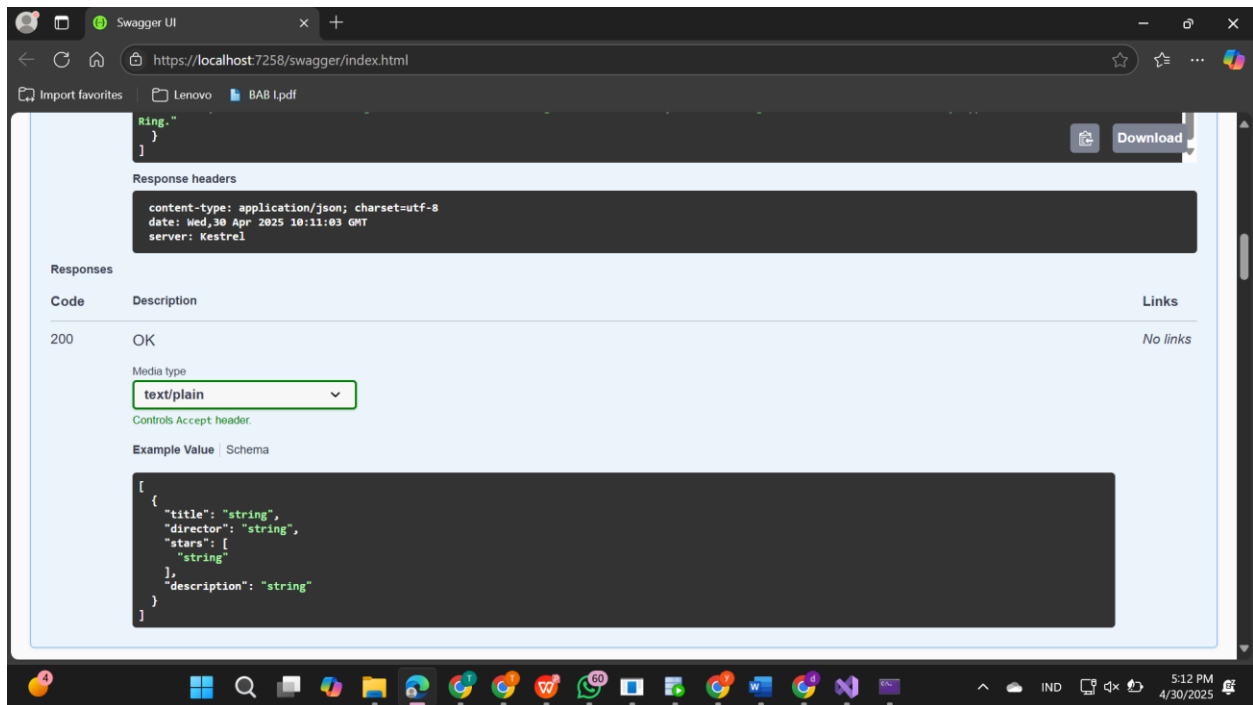
Response body

```
    "description": "Two imprisoned men bond over a number of years, finding solace and eventual redemption through acts of common decency."
  },
  {
    "title": "The Lord of The Rings: The Return of The King",
    "director": "Peter Jackson",
    "stars": [
      "Elijah Wood",
      "Viggo Mortensen",
      "Ian McKellen",
      "Orlando Bloom"
    ],
    "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."
  },
  {
    "title": "The Lord of The Rings: The Return of The King",
    "director": "Peter Jackson",
    "stars": [
      "Elijah Wood",
      "Viggo Mortensen",
      "Ian McKellen",
      "Orlando Bloom"
    ],
    "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."
  }
]
```

Response headers

```
content-type: application/json; charset=utf-8
date: Wed, 30 Apr 2025 10:11:03 GMT
```

5:11 PM 4/30/2025



Penjelasan Singkat Kode Implementasi

1. Class Movie (Models/Movie.cs)

- Kelas ini mewakili struktur data untuk sebuah *Movie*.
- Properti yang dimiliki:
 - Title (judul film)
 - Director (sutradara film)
 - Stars (list nama-nama aktor)
 - Description (deskripsi singkat film)
- Konstruktor `Movie()` menginisialisasi list Stars agar tidak null.

2. Class MoviesController (Controllers/MoviesController.cs)

- Controller ini menangani 4 endpoint API sesuai tugas:
 - `GET /api/Movies` → Mengembalikan semua daftar movie.
 - `GET /api/Movies/{id}` → Mengambil movie berdasarkan *index id*.
 - `POST /api/Movies` → Menambah movie baru ke dalam list.

- DELETE /api/Movies/{id} → Menghapus movie berdasarkan *index id*.
- Data movie disimpan di dalam variable static List<Movie> movies, jadi data tersimpan di memori dan tidak menggunakan database.
- Saat aplikasi dijalankan, sudah otomatis memiliki 3 movie default yaitu:
 - *The Shawshank Redemption*
 - *The Godfather*
 - *The Dark Knight*

3. Cara Kerja Endpoint:

- GET /api/Movies: Mengembalikan semua movie dalam list.
- GET /api/Movies/{id}: Mengecek apakah *id* valid, lalu mengembalikan movie dengan index tersebut.
- POST /api/Movies: Menerima data movie baru dari user dan menambahkannya ke list.
- DELETE /api/Movies/{id}: Menghapus movie berdasarkan *id* jika ditemukan.

1. Penjelasan Movie.cs (Model)

```
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>();
    }
}
```



```
}  
}
```

- Title, Director, Description: Properti bertipe string untuk menyimpan informasi film.
- Stars: Bertipe List<string>, menyimpan daftar nama-nama pemeran dalam film.
- Konstruktor Movie(): Menginisialisasi Stars sebagai list kosong agar siap diisi data aktor.

2. Penjelasan MoviesController.cs (Controller)

a) Deklarasi List Static

```
private static List<Movie> movies = new List<Movie> { ... };
```

- Ini adalah *list static* yang menyimpan semua data movie.
- Static artinya data ini disimpan di memori selama aplikasi berjalan, bukan di database.
- Awalnya, list ini berisi 3 film default (TOP 3 IMDB).

b) Endpoint GET All Movies

```
[HttpGet]
```

```
public ActionResult<List<Movie>> GetMovies()
```

```
{
```

```
    return Ok(movies);
```

```
}
```

- Mengembalikan seluruh daftar movie dalam bentuk array/list.
- Diakses lewat URL: GET /api/Movies.

c) Endpoint GET Movie by ID

```
[HttpGet("{id}")]
```

```
public ActionResult<Movie> GetMovie(int id)
```

```

{
    if (id < 0 || id >= movies.Count)
    {
        return NotFound();
    }
    return Ok(movies[id]);
}

```

- Mengambil 1 movie berdasarkan index id yang dikirim di URL.
- Cek apakah id valid:
 - Jika tidak valid → kembalikan status 404 Not Found.
 - Jika valid → kembalikan data movie dengan index itu.
- Diakses lewat URL: GET /api/Movies/{id}.

d) Endpoint POST (Tambah Movie Baru)

[HttpPost]

```
public ActionResult<Movie> CreateMovie(Movie newMovie)
```

```

{
    movies.Add(newMovie);
    return Ok(newMovie);
}

```

- Menerima data movie baru dari user (dalam format JSON).
- Menambahkannya ke list movies.
- Kembalikan movie yang baru ditambahkan sebagai konfirmasi.
- Diakses lewat URL: POST /api/Movies.

e) Endpoint DELETE Movie by ID

```
[HttpDelete("{id}")]
```

```
public IActionResult DeleteMovie(int id)
```

```
{  
    if (id < 0 || id >= movies.Count)  
    {  
        return NotFound();  
    }  
  
    movies.RemoveAt(id);  
  
    return NoContent();  
}
```

- Menghapus movie berdasarkan index id di URL.
- Jika id invalid → kembalikan 404 Not Found.
- Jika valid → hapus movie dan kembalikan 204 No Content (berarti berhasil tanpa isi).

3. MELAKUKAN COMMIT

```
C:\WINDOWS\system32\cmd.exe  
*****  
** Visual Studio 2022 Developer Command Prompt v17.13.0  
** Copyright (c) 2022 Microsoft Corporation  
*****  
  
C:\Users\USER\source\repos\KPL_TiurmaGraceA_2311104042_S1SE-07-02\09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042>cd ..  
  
C:\Users\USER\source\repos\KPL_TiurmaGraceA_2311104042_S1SE-07-02\09_API_Design_dan_Construction_Using_Swagger>git add tjmod9_2311104042  
  
C:\Users\USER\source\repos\KPL_TiurmaGraceA_2311104042_S1SE-07-02\09_API_Design_dan_Construction_Using_Swagger>git commit -m "menambahkan API Movies"  
[main ef333c6] menambahkan API Movies  
16 files changed, 1238 insertions(+)  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/ProjectEvaluation/tjmod9_2311104042.metadata.v9.bin  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/ProjectEvaluation/tjmod9_2311104042.projects.v9.bin  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/ProjectEvaluation/tjmod9_2311104042.strings.v9.bin  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/tjmod9_2311104042/DesignTimeBuild/.dtbcache.v2  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/tjmod9_2311104042/FileContentIndex/000189f3-4699-4783-a245-b3c16dcf4fd4.vsidx  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/tjmod9_2311104042/FileContentIndex/24a02995-cfb1-4851-b3cf-35bfc5c6d5b4.vsidx  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/tjmod9_2311104042/FileContentIndex/9a589d64-2aa5-47c0-9a2a-b3534cf0f53a.vsidx  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/tjmod9_2311104042/FileContentIndex/b6b625ed-91c6-40eb-98bb-27f16fab0072.vsidx  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/config/applicationhost.config  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/tjmod9_2311104042/v17/.fudcache.v2  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/tjmod9_2311104042/v17/.suo  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/tjmod9_2311104042/v17/DocumentLayout.backup.json  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042/.vs/tjmod9_2311104042/v17/DocumentLayout.json  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042.sln  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\Controllers\MoviesController.cs  
create mode 100644 09_API_Design_dan_Construction_Using_Swagger\tjmod9_2311104042\tjmod9_2311104042\Models\Movie.cs  
  
C:\Users\USER\source\repos\KPL_TiurmaGraceA_2311104042_S1SE-07-02\09_API_Design_dan_Construction_Using_Swagger>git push origin main  
Enumerating objects: 33, done.  
Counting objects: 100% (33/33), done.  
Delta compression using up to 12 threads  
Compressing objects: 100% (27/27), done.  
Writing objects: 100% (29/29), 111.00 KiB | 1.95 MiB/s, done.  
Total 29 (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/tiurmagrace/KPL_TiurmaGraceA_2311104042_S1SE-07-02.git  
3d4fcac..ef333c6 main -> main
```

