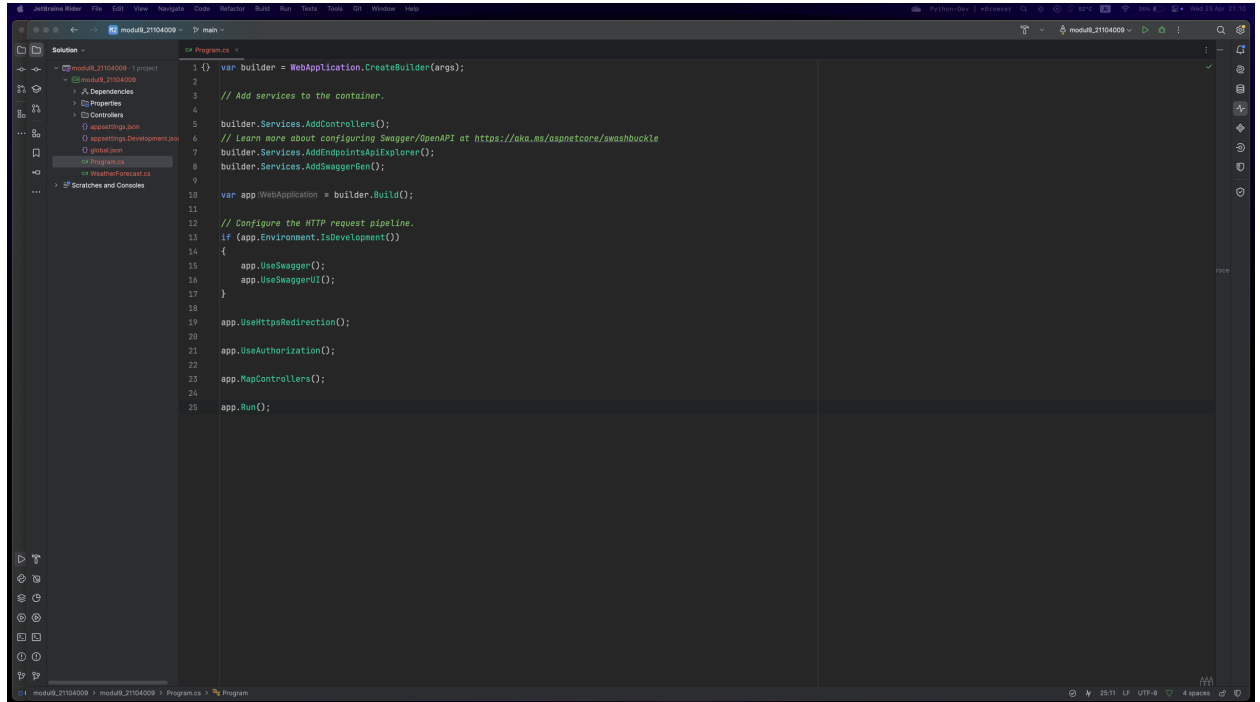**Tugas Jurnal Modul 9**

Doanta Aloycius Ginting (21104009)

1. Membuat Project Web API

2. Membuat Class Movie

```csharp
namespace modul9_21104009;

public class Movie
{
    public int Id {get; set;}

    public string Title { get; set; }

    public string Director { get; set; }

    public List<string> Stars { get; set; }

    public string Description { get; set; }
}
```

3. Dummy Data

```csharp
private static List<Movie> movies = new List<Movie>
{
    new Movie
    {
        Id = 1,
        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
    {
        Id = 2,
        Title = "The Godfather",
        Director = "Francis Ford Coppola",
        Stars = new List<string> { "Marlon Brando", "Al
Pacino", "James Caan" },
        Description = "An organized crime dynasty's
aging patriarch transfers control of his clandestine
empire to his reluctant son."
    },
    new Movie
    {
        Id = 3,
        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 of his ability to fight injustice."
    },
    new Movie
```

```
    {
        Id = 4,
        Title = "12 Angry Men",
        Director = "Sidney Lumet",
        Stars = new List<string> { "Henry Fonda", "Lee
J. Cobb", "Martin Balsam" },
        Description = "A jury holdout attempts to
prevent a miscarriage of justice by forcing his
colleagues to reconsider the evidence."
    },
    new Movie
    {
        Id = 5,
        Title = "Schindler's List",
        Director = "Steven Spielberg",
        Stars = new List<string> { "Liam Neeson",
"Ralph Fiennes", "Ben Kingsley" },
        Description = "In German-occupied Poland during
World War II, industrialist Oskar Schindler gradually
becomes concerned for his Jewish workforce after
witnessing their persecution by the Nazis."
    }
};
```

5. Method GET All Movie

```
// GET: api/movies
[HttpGet]
public ActionResult<IEnumerable<Movie>> GetAll()
{
    return Ok(movies);
}
```

Hasil Test Get All Movie

```
GET  /api/Movie                                                          ^

Parameters                                                        Cancel

No parameters

┌─────────────────────────────────┬─────────────────────────────────┐
│            Execute              │              Clear               │
└─────────────────────────────────┴─────────────────────────────────┘

Responses

Curl
curl -X 'GET' \
  'https://localhost:7065/api/Movie' \
  -H 'accept: text/plain'

Request URL
https://localhost:7065/api/Movie

Server response

Code     Details

200      Response body
         [
           {
             "id": 1,
             "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."
           },
           {
             "id": 2,
             "title": "The Godfather",
             "director": "Francis Ford Coppola",
             "stars": [
               "Marlon Brando",
               "Al Pacino",
               "James Caan"
             ],
             "description": "An organized crime dynasty's aging patriarch transfers control of his clandestine empire to his reluctant son."
           },
           {
             "id": 3

         Response headers
         content-type: application/json; charset=utf-8
         date: Wed,23 Apr 2025 15:21:35 GMT
         server: Kestrel
         transfer-encoding: chunked
```

6. Method Get movie by id

```csharp
// Get: api/movie/{id}
[HttpGet( template: "{id}")]
🔗 2 usages
public ActionResult<Movie> GetById(int id)
{
    var movie = movies.FirstOrDefault(m :Movie => m.Id == id);
    if (movie == null) return  🔗 NotFound();
    return  🔗 Ok(movie);
}
```

Output:

7. Method Create Movie

```csharp
// POST: api/movies
[HttpPost]
public ActionResult<Movie> Create(Movie movie)
{
    movie.Id = movies.Max(m :Movie => m.Id) + 1;
    movies.Add(movie);
    return  CreatedAtAction(nameof(GetById),  routeValues: new { id = movie.Id }, movie);
}
```

Output:

Curl

```
curl -X 'POST' \
  'https://localhost:7065/api/Movie' \
  -H 'accept: text/plain' \
  -H 'Content-Type: application/json' \
  -d '{
  "title": "string",
  "director": "string",
  "stars": [
    "string"
  ],
  "description": "string"
}'
```

Request URL

```
https://localhost:7065/api/Movie
```

Server response

Code	Details
201 *Undocumented*	**Response body**

```
{
  "id": 6,
  "title": "string",
  "director": "string",
  "stars": [
    "string"
  ],
  "description": "string"
}
```

Response headers

```
content-type: application/json; charset=utf-8
date: Wed,23 Apr 2025 15:21:49 GMT
location: https://localhost:7065/api/Movie/6
server: Kestrel
transfer-encoding: chunked
```

8. Method Delete movie by id

```csharp
// DELETE: api/movies/{id}
[HttpDelete( template: "{id}")]
public IActionResult Delete(int id)
{
    var movie = movies.FirstOrDefault(m :Movie => m.Id == id);
    if (movie == null) return NotFound();
    movies.Remove(movie);
    return NoContent();
}
```

Output:

DELETE `/api/Movie/{id}` ^

Parameters

Cancel

Name	Description
id * required integer($int32) (path)	6

<div style="text-align:center">Execute</div> | <div style="text-align:center">Clear</div>

Responses

Curl

```
curl -X 'DELETE' \
  'https://localhost:7065/api/Movie/6' \
  -H 'accept: */*'
```

Request URL

```
https://localhost:7065/api/Movie/6
```

Server response

Code	Details

204
Undocumented
	Response headers
	
	```date: Wed,23 Apr 2025 15:22:25 GMT```
	```server: Kestrel```

Responses

Code	Description	Links
200	Success	*No links*