

Jurnal Modul 9
Konstruksi Perangkat Lunak
PRODI REKAYASA PERANGKAT LUNAK



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PURWOKERTO

Jurnal Modul 8

1. Initialize project dan push

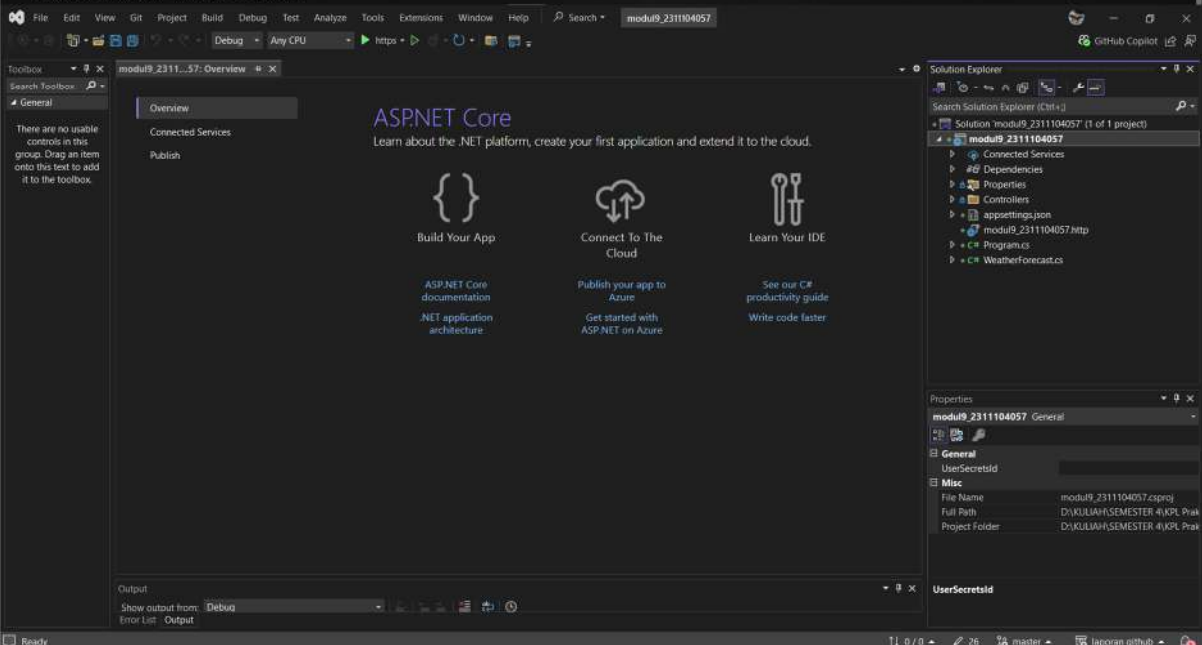
```
D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master):4 (0.145s)
git add 09_API_Design_dan_Construction_Using_Swagger/jurnal/

D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master):12 (0.202s)
git commit -m "modul9 : Initialize project"

[master bfe0510] modul9 : Initialize project
9 files changed, 172 insertions(+)
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057.sln
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057/Controllers/WeatherForecastController.cs
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057/Program.cs
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057/Properties/launchSettings.json
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057/WeatherForecast.cs
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057/appsettings.Development.json
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057/appsettings.json
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057/modul9_2311104057.csproj
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057.http

D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master):3 (3.203s)
git push

Enumerating objects: 19, done.
Counting objects: 100% (19/19), done.
Delta compression using up to 8 threads
Compressing objects: 100% (15/15), done.
Writing objects: 100% (17/17); 3.10 KiB | 1.03 MiB/s, done.
Total 17 (delta 2), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (2/2), completed with 1 local object.
To https://github.com/reynieratira/KPL_REYNER-ATIRA-PRASETYO_2311104057_515E-07-02.git
0a4a1cf..bfe0510 master -> master
```



The screenshot shows the Visual Studio IDE with the ASP.NET Core project overview. The main window displays the 'ASP.NET Core' landing page with links to 'Build Your App', 'Connect To The Cloud', and 'Learn Your IDE'. The Solution Explorer on the right shows the project structure for 'modul9_2311104057', including 'Connected Services', 'Dependencies', 'Properties', 'Controllers', 'appsettings.json', 'modul9_2311104057.http', 'Program.cs', and 'WeatherForecast.cs'. The Properties window at the bottom right shows the 'General' properties for the project, including 'UserSecretsId', 'File Name', 'Full Path', and 'Project Folder'.

2. Membuat model Movie

```

1 namespace modul9_2311104057.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

```

3. Membuat MovieController

```

public class MovieController : 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" },
            Description = "Two imprisoned men bond over a number of years, finding solace and eventual redemption."
        },
        new Movie
        {
            Title = "The Godfather",
            Director = "Francis Ford Coppola",
            Stars = new List<string> { "Marlon Brando", "Al Pacino" },
            Description = "The aging patriarch of an organized crime dynasty transfers control to his reluctant son."
        },
        new Movie
        {
            Title = "The Dark Knight",
            Director = "Christopher Nolan",
            Stars = new List<string> { "Christian Bale", "Heath Ledger" },
            Description = "When the menace known as the Joker wreaks havoc, Batman must accept one of the greatest tests."
        }
    };

    [HttpGet]
    public ActionResult<IEnumerable<Movie>> GetMovies()
    {
        if (movies == null || !movies.Any())
        {
            return NotFound("No movies found.");
        }
        return Ok(movies);
    }

    [HttpGet("{id}")]
    public ActionResult<Movie> GetMoviebyID(int id)
    {
        if (id < 0 || id >= movies.Count)
        {
            return NotFound("Movie not found.");
        }
        return Ok(movies[id]);
    }

    [HttpPost]
    public ActionResult<Movie> PostMovie([FromBody] Movie movie)

```

4. Demonstrasi API

GET ALL

The screenshot shows a web browser displaying the response of a GET ALL API call. The URL bar shows `https://localhost:7151/api/Movie`. The page title is "Server response". Below the title, there are two tabs: "Code" and "Details". The "Code" tab is selected, showing a status code of 200. The "Details" tab is also visible, showing the response body and headers. The response body is a JSON array of three movie objects. The first movie is "The Shawshank Redemption" by Frank Darabont, starring Tim Robbins and Morgan Freeman. The second movie is "The Godfather" by Francis Ford Coppola, starring Marlon Brando and Al Pacino. The third movie is "The Dark Knight" by Christopher Nolan, starring Christian Bale and Heath Ledger. The response headers show the content type as application/json, the date as Tue, 27 May 2025 13:08:05 GMT, and the server as Kestrel.

```
https://localhost:7151/api/Movie

Server response

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."
  },
  {
    "title": "The Godfather",
    "director": "Francis Ford Coppola",
    "stars": [
      "Marlon Brando",
      "Al Pacino"
    ],
    "description": "The aging patriarch of an organized crime dynasty transfers control to his reluctant son."
  },
  {
    "title": "The Dark Knight",
    "director": "Christopher Nolan",
    "stars": [
      "Christian Bale",
      "Heath Ledger"
    ],
    "description": "When the menace known as the Joker wreaks havoc, Batman must accept one of the greatest tests."
  }
]

Response headers

content-type: application/json; charset=utf-8
date: Tue, 27 May 2025 13:08:05 GMT
server: Kestrel

Responses

Code Description Links
```

POST

The screenshot shows a web browser displaying the response of a POST API call. The URL bar shows `https://localhost:7151/api/Movie`. The page title is "Server response". Below the title, there are two tabs: "Code" and "Details". The "Code" tab is selected, showing a status code of 201. The "Details" tab is also visible, showing the response body and headers. The response body is a JSON object representing a movie. The movie is "Schindler's List" by Steven Spielberg, starring Liam Neeson, Ralph Fiennes, and Ben Kingsley. The response headers show the content type as application/json, the date as Tue, 27 May 2025 13:11:11 GMT, the location as https://localhost:7151/api/Movie/3, and the server as Kestrel.

```
Curl

curl -X 'POST' \
  'https://localhost:7151/api/Movie' \
  -H 'accept: text/plain' \
  -H 'Content-Type: application/json' \
  -d '{
    "title": "Schindler\'s List",
    "director": "Steven Spielberg",
    "stars": [
      "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."
  }'

Request URL

https://localhost:7151/api/Movie

Server response

Code Details

201

Response body

{
  "title": "Schindler's List",
  "director": "Steven Spielberg",
  "stars": [
    "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."
}

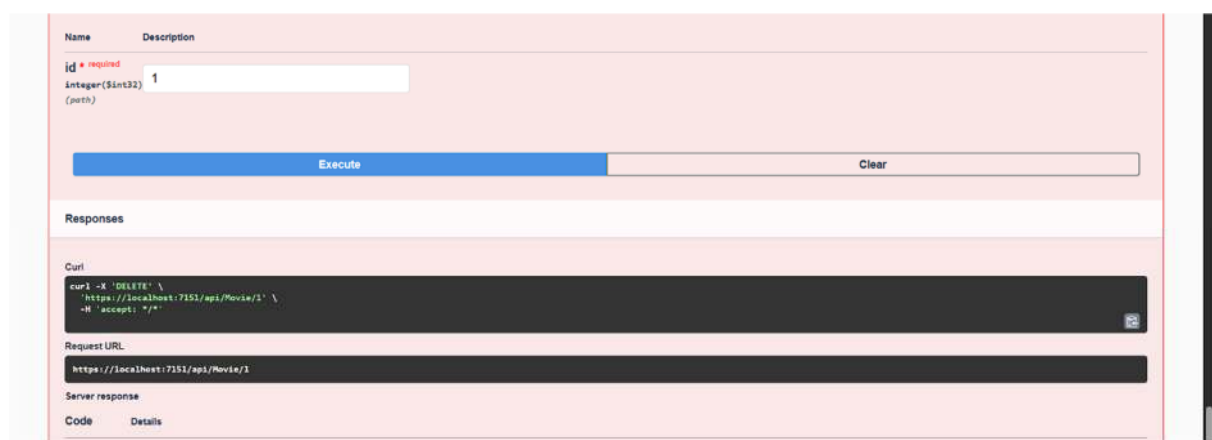
Response headers

content-type: application/json; charset=utf-8
date: Tue, 27 May 2025 13:11:11 GMT
location: https://localhost:7151/api/Movie/3
server: Kestrel
```

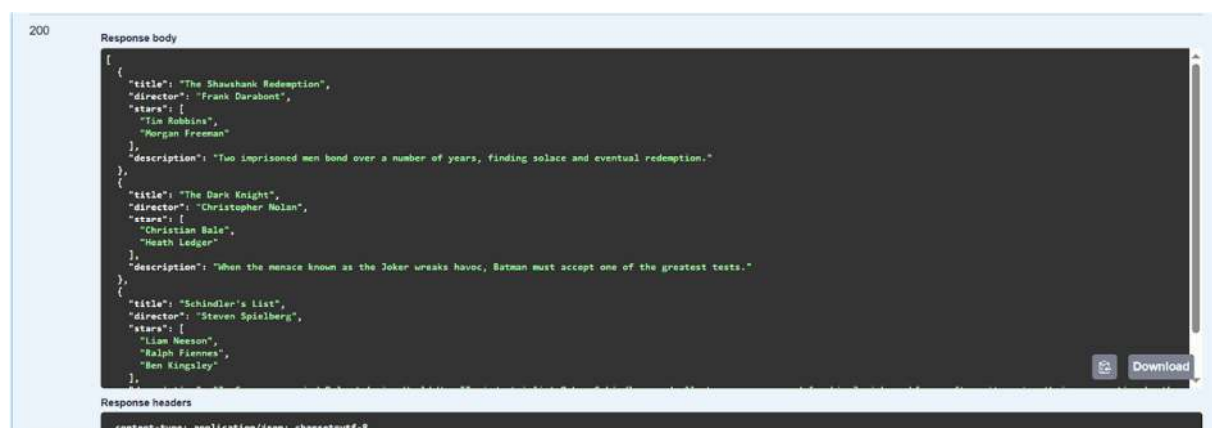
GET MOVIE id 3



DELETE id 1



GET ALL after DELETE



5. Push

```
D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master)±3 (0.092s)
git add 09_API_Design_dan_Construction_Using_Swagger/jurnal/
```

```
D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master)±5 (0.17s)
git commit -m "menambahkan API Movies"
```

```
[master 142508a] menambahkan API Movies
2 files changed, 105 insertions(+)
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057/Controllers/MovieController.cs
create mode 100644 09_API_Design_dan_Construction_Using_Swagger/jurnal/modul9_2311104057/modul9_2311104057/Models/Movie.cs
```

```
D:\KULIAH\SEMESTER 4\KPL Praktikum\laporan github git:(master)±3 (2.334s)
```

```
git push
```

```
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 8 threads
Compressing objects: 100% (8/8), done.
Writing objects: 100% (10/10), 2.02 KiB | 1.01 MiB/s, done.
Total 10 (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/reynaratira/KPL_REYNER-ATIRA-PRASETYO_2311104057_S15E-07-02.git
 bfe0510..142508a master -> master
```