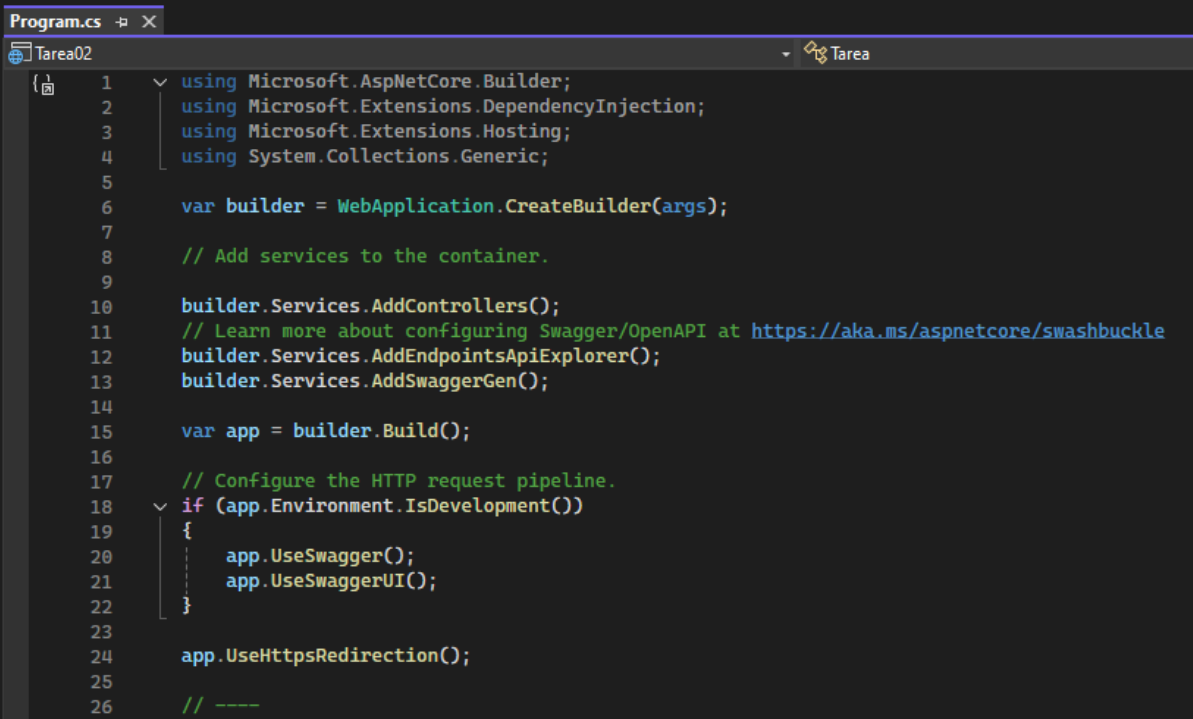


## Implementación:

Paso 1: Repetir los pasos 1 a 3 de la tarea anterior.

Paso 2: Realizar la implementación en el archivo: program.cs



```
1 using Microsoft.AspNetCore.Builder;
2 using Microsoft.Extensions.DependencyInjection;
3 using Microsoft.Extensions.Hosting;
4 using System.Collections.Generic;
5
6 var builder = WebApplication.CreateBuilder(args);
7
8 // Add services to the container.
9
10 builder.Services.AddControllers();
11 // Learn more about configuring Swagger/OpenAPI at https://aka.ms/aspnetcore/swashbuckle
12 builder.Services.AddEndpointsApiExplorer();
13 builder.Services.AddSwaggerGen();
14
15 var app = builder.Build();
16
17 // Configure the HTTP request pipeline.
18 if (app.Environment.IsDevelopment())
19 {
20     app.UseSwagger();
21     app.UseSwaggerUI();
22 }
23
24 app.UseHttpsRedirection();
25
26 // ----
27
28 var tareas = new List<Tarea>
29 {
30     new Tarea { Id = 1, Nombre = "Tarea 1", Descripcion = "Descripción de la tarea 1", DuracionHoras = 2, Responsable = "Juan", Fecha = DateTime.Now },
31     new Tarea { Id = 2, Nombre = "Tarea 2", Descripcion = "Descripción de la tarea 2", DuracionHoras = 4, Responsable = "Andrés", Fecha = DateTime.Now },
32     new Tarea { Id = 3, Nombre = "Tarea 3", Descripcion = "Descripción de la tarea 3", DuracionHoras = 1, Responsable = "Luis", Fecha = DateTime.Now }
33 };
34
35 app.MapGet("/api/tareas", () => tareas);
36
37 app.MapGet("/api/tareas/{id:int}", (int id) =>
38 {
39     var tarea = tareas.FirstOrDefault(t => t.Id == id);
40     return tarea is not null ? Results.Ok(tarea) : Results.NotFound();
41 });
42
43 app.MapPost("/api/tareas", (Tarea tarea) =>
44 {
45     tarea.Id = tareas.Count + 1;
46     tareas.Add(tarea);
47     return Results.Created($"/api/tareas/{tarea.Id}", tarea);
48 });
49
50 app.MapDelete("/api/tareas/{id:int}", (int id) =>
51 {
52     var tarea = tareas.FirstOrDefault(t => t.Id == id);
53     if (tarea is not null)
54     {
55         tareas.Remove(tarea);
56         return Results.NoContent();
57     }
58     return Results.NotFound();
59 });
```

```
61     app.Run();
62
63     // Clase Tarea
64     public class Tarea
65     {
66         public int Id { get; set; }
67         public string? Nombre { get; set; }
68         public string? Descripcion { get; set; }
69         public int? DuracionHoras { get; set; }
70         public string? Responsable { get; set; }
71         public DateTime? Fecha { get; set; }
72     }
```

## pruebas con Swagger

Petición GET:

The screenshot shows the Swagger UI interface for a REST API. The top bar indicates a GET request to the endpoint `/api/tareas`. Below this, the 'Parameters' section is empty, and the 'Responses' section shows a 200 status code. The 'Response body' is displayed as a JSON array containing three task objects. Each object has fields for `id`, `nombre`, `descripcion`, `duracionHoras`, `responsable`, and `fecha`.

```
{
  "id": 1,
  "nombre": "Tarea 1",
  "descripcion": "Descripción de la tarea 1",
  "duracionHoras": 2,
  "responsable": "Juan",
  "fecha": "2024-08-29T12:12:23.9754606-03:00"
},
{
  "id": 2,
  "nombre": "Tarea 2",
  "descripcion": "Descripción de la tarea 2",
  "duracionHoras": 4,
  "responsable": "Andrés",
  "fecha": "2024-08-29T12:12:23.9764415-03:00"
},
{
  "id": 3,
  "nombre": "Tarea 3",
  "descripcion": "Descripción de la tarea 3",
  "duracionHoras": 1,
  "responsable": "Luis",
  "fecha": "2024-08-29T12:12:23.9764424-03:00"
}
]
```

Petición POST:

POST /api/tareas

Parameters

No parameters

Request body required

application/json

```
{
  "id": 0,
  "nombre": "Tarea4",
  "descripcion": "des t4",
  "duracionHoras": 0,
  "responsable": "andres",
  "fecha": "2024-08-29T15:12:42.150Z"
}
```

Execute

Code

Details

201

undocumented

Response body

```
{
  "id": 4,
  "nombre": "Tarea4",
  "descripcion": "des t4",
  "duracionHoras": 0,
  "responsable": "andres",
  "fecha": "2024-08-29T15:12:42.152Z"
}
```

Download

Response headers

```
content-type: application/json; charset=utf-8
date: Thu, 29 Aug 2024 15:13:21 GMT
location: /api/tareas/4
server: Kestrel
x-firefox-spy: h2
```

Responses

Code	Description	Links
200	Success	No links

Petición GET por ID:

GET /api/tareas/{id}

Parameters

Cancel

Name	Description
<b>id</b> <small>* required</small> integer(Sint32) <small>(path)</small>	<input type="text" value="4"/>

Execute

Clear

Responses

Curl

```
curl -X 'GET' \
  'https://localhost:7021/api/tareas/4' \
  -H 'accept: */*'

```

Request URL

https://localhost:7021/api/tareas/4

Server response

Code	Details
200	<div><div>Response body</div><div><pre>{   "id": 4,   "nombre": "Tarea4",   "descripcion": "des t4",   "duracionHoras": 0,   "responsable": "andres",   "fecha": "2024-08-29T15:12:42.152Z" }</pre></div><div>Download</div></div>

Petición DELETE:

DELETE

/api/tareas/{id}

Parameters

Cancel

Name	Description
id * required	
integer(\$int32)	2
(path)	

ExecuteClear

Responses

Curl

curl -X 'DELETE' \n'https://localhost:7021/api/tareas/2' \n-H 'accept: \*/\*'

Request URL

https://localhost:7021/api/tareas/2

Server response

Code	Details
404	Error: response status is 404

Response headers

content-length: 0\ndate: Thu, 29 Aug 2024 15:14:31 GMT\nserver: Kestrel\nx-firefox-spy: h2

Responses

Code	Description	Links
200	Success	No links

Petición GET luego del DELETE de la tarea 2:

GET

/api/tareas

Parameters

Cancel

No parameters

ExecuteClear

Responses

Curl

curl -X 'GET' \n'https://localhost:7021/api/tareas' \n-H 'accept: application/json'

Request URL

https://localhost:7021/api/tareas

Server response

Code	Details
200	Response body

```
{\n  {\n    \"id\": 1,\n    \"nombre\": \"Tarea 1\",\n    \"descripcion\": \"Descripci3n de la tarea 1\",\n    \"duracionHoras\": 2,\n    \"responsable\": \"Juan\",\n    \"fecha\": \"2024-08-29T12:12:23.9754606-03:00\"\n  },\n  {\n    \"id\": 3,\n    \"nombre\": \"Tarea 3\",\n    \"descripcion\": \"Descripci3n de la tarea 3\",\n    \"duracionHoras\": 1,\n    \"responsable\": \"Luis\",\n    \"fecha\": \"2024-08-29T12:12:23.9764424-03:00\"\n  },\n  {\n    \"id\": 4,\n    \"nombre\": \"Tarea4\",\n    \"descripcion\": \"des t4\",\n    \"duracionHoras\": 0,\n    \"responsable\": \"andres\",\n    \"fecha\": \"2024-08-29T15:12:42.15Z\"\n  }\n}
```

Download

Como se puede observar est1n las tareas 1,3 y 4.

## Repositorio de GitHub:

[https://github.com/AndresRomano/DotNET\\_Pr-cticos/tree/main/Tarea02](https://github.com/AndresRomano/DotNET_Pr-cticos/tree/main/Tarea02)