1. **First Web Api using .Net core**

Create a .Net core web application with API template. Use the option to create controller with Read Write permissions. Notice the ValuesController creation with Action methods corresponding to the Action verbs.

On creation of the Web API, execute the application and check if the GET action method result is returned as expected.

CODE:

ValuesController.cs

using Microsoft.AspNetCore.Mvc;

namespace MyWebApi.Controllers

{

[Route("api/[controller]")]

[ApiController]

public class ValuesController : ControllerBase

{

// GET: api/values

[HttpGet]

public ActionResult<IEnumerable<string>> Get()

{

return new string[] { "value1", "value2" };

}

// GET: api/values/5

[HttpGet("{id}")]

public ActionResult<string> Get(int id)

{

return "value";

}

// POST: api/values

[HttpPost]

public void Post([FromBody] string value)

{

}

// PUT: api/values/5

[HttpPut("{id}")]

public void Put(int id, [FromBody] string value)

{

}

// DELETE: api/values/5

[HttpDelete("{id}")]

public void Delete(int id)

{

}

}

}

Program.cs

var builder = WebApplication.CreateBuilder(args);

builder.Services.AddControllers();

builder.Services.AddEndpointsApiExplorer();

builder.Services.AddSwaggerGen();

var app = builder.Build();

if (app.Environment.IsDevelopment())

{

app.UseSwagger();

app.UseSwaggerUI();

}

app.UseHttpsRedirection();

app.UseAuthorization();

app.MapControllers();

app.Run();

appSettings.json

{

"Logging": {

"LogLevel": {

"Default": "Information",

"Microsoft.AspNetCore": "Warning"

}

},

"AllowedHosts": "\*"

}

launchSettings.json

{

"$schema": "http://json.schemastore.org/launchsettings.json",

"iisSettings": {

"windowsAuthentication": false,

"anonymousAuthentication": true,

"iisExpress": {

"applicationUrl": "http://localhost:32355",

"sslPort": 44369

}

},

"profiles": {

"MyWebApi": {

"commandName": "Project",

"dotnetRunMessages": true,

"launchBrowser": true,

"applicationUrl": "https://localhost:5001;http://localhost:5000",

"environmentVariables": {

"ASPNETCORE\_ENVIRONMENT": "Development"

}

}

},

"https": {

"commandName": "Project",

"dotnetRunMessages": true,

"launchBrowser": true,

"launchUrl": "swagger",

"applicationUrl": "https://localhost:7075;http://localhost:5108",

"environmentVariables": {

"ASPNETCORE\_ENVIRONMENT": "Development"

}

},

"IIS Express": {

"commandName": "IISExpress",

"launchBrowser": true,

"launchUrl": "swagger",

"environmentVariables": {

"ASPNETCORE\_ENVIRONMENT": "Development"

}

}

}

Output:

