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:

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();

VALUES CONTROLLERS:

using Microsoft.AspNetCore.Mvc;

namespace FirstWebApi.Controllers

{

    [ApiController]

    [Route("[controller]")]

    public class ValuesController : ControllerBase

    {

        private static readonly List<string> values = new() { "value1", "value2" };

        [HttpGet]

        public IEnumerable<string> Get()

        {

            return values;

        }

        [HttpGet("{id}")]

        public ActionResult<string> Get(int id)

        {

            if (id < 0 || id >= values.Count)

                return NotFound("Value not found");

            return values[id];

        }

        [HttpPost]

        public IActionResult Post([FromBody] string value)

        {

            values.Add(value);

            return Ok("Value added");

        }

        [HttpPut("{id}")]

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

        {

            if (id < 0 || id >= values.Count)

                return NotFound("Value not found");

            values[id] = value;

            return Ok("Value updated");

        }

        [HttpDelete("{id}")]

        public IActionResult Delete(int id)

        {

            if (id < 0 || id >= values.Count)

                return NotFound("Value not found");

            values.RemoveAt(id);

            return Ok("Value deleted");

        }

    }

}

OUTPUT:

Building...

info: Microsoft.Hosting.Lifetime[14]

Now listening on: http://localhost:5275

info: Microsoft.Hosting.Lifetime[0]

Application started. Press Ctrl+C to shut down.

info: Microsoft.Hosting.Lifetime[0]

Hosting environment: Development

info: Microsoft.Hosting.Lifetime[0]

Content root path: C:\Users\rahul\FirstWebApi

