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1. **ASP.NET Core 8.0 Web API**

**Web Api CRUD operation:-**

**EmployeeController.cs**

using Microsoft.AspNetCore.Mvc;

using EmployeeWebAPI.Models;

using EmployeeWebAPI.Filters;

namespace EmployeeWebAPI.Controllers

{

[ApiController]

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

[CustomAuthFilter]

public class EmployeeController : ControllerBase

{

private static List<Employee> \_employees = new List<Employee>

{

new Employee

{

Id = 1,

Name = "Alice",

Salary = 60000,

Permanent = true,

DateOfBirth = new DateTime(1990, 5, 12),

Department = new Department { Id = 1, Name = "HR" },

Skills = new List<Skill>

{

new Skill { Id = 1, Name = "Communication" },

new Skill { Id = 2, Name = "Recruitment" }

}

},

new Employee

{

Id = 2,

Name = "Bob",

Salary = 70000,

Permanent = false,

DateOfBirth = new DateTime(1988, 8, 22),

Department = new Department { Id = 2, Name = "IT" },

Skills = new List<Skill>

{

new Skill { Id = 3, Name = "C#" },

new Skill { Id = 4, Name = "SQL" }

}

}

};

[HttpGet]

[ProducesResponseType(typeof(List<Employee>), 200)]

[ProducesResponseType(500)]

public ActionResult<List<Employee>> Get()

{

return Ok(\_employees);

}

[HttpPost]

[ProducesResponseType(typeof(Employee), 201)]

public ActionResult<Employee> Post([FromBody] Employee emp)

{

emp.Id = \_employees.Max(e => e.Id) + 1;

\_employees.Add(emp);

return CreatedAtAction(nameof(Get), new { id = emp.Id }, emp);

}

[HttpPut("{id}")]

[ProducesResponseType(typeof(Employee), 200)]

[ProducesResponseType(400)]

public ActionResult<Employee> Put(int id, [FromBody] Employee emp)

{

if (id <= 0)

{

return BadRequest("Invalid employee id");

}

var existing = \_employees.FirstOrDefault(e => e.Id == id);

if (existing == null)

{

return BadRequest("Invalid employee id");

}

existing.Name = emp.Name;

existing.Salary = emp.Salary;

existing.Permanent = emp.Permanent;

existing.DateOfBirth = emp.DateOfBirth;

existing.Department = emp.Department;

existing.Skills = emp.Skills;

return Ok(existing);

}

}

}

**Output:-**







