**4.WebApi\_Handson**

**CODE**

using Microsoft.AspNetCore.Mvc;

using SwaggerDemoApi.Models;

public class EmployeeController : ControllerBase

{

private static List<Employee> employees = new List<Employee>();

static EmployeeController()

{

employees = GetStandardEmployeeList();

}

[HttpGet]

public ActionResult<List<Employee>> Get()

{

return Ok(employees);

}

private static List<Employee> GetStandardEmployeeList()

{

return new List<Employee>

{

new Employee

{

Id = 1,

Name = "John",

Salary = 50000,

Permanent = true,

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

Skills = new List<Skill>

{

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

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

},

DateOfBirth = new DateTime(1990, 1, 1)

},

new Employee

{

Id = 2,

Name = "Jane",

Salary = 60000,

Permanent = false,

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

Skills = new List<Skill>

{

new Skill { Id = 3, Name = "Budgeting" },

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

},

DateOfBirth = new DateTime(1988, 5, 15)

}

};

}

// ✅ PUT method should go here:

[HttpPut("{id}")]

[ProducesResponseType(typeof(Employee), 200)]

[ProducesResponseType(400)]

public ActionResult<Employee> UpdateEmployee(int id, [FromBody] Employee updatedEmployee)

{

if (id <= 0)

return BadRequest("Invalid employee id");

var employee = employees.FirstOrDefault(e => e.Id == id);

if (employee == null)

return BadRequest("Invalid employee id");

employee.Name = updatedEmployee.Name;

employee.Salary = updatedEmployee.Salary;

employee.Permanent = updatedEmployee.Permanent;

employee.Department = updatedEmployee.Department;

employee.Skills = updatedEmployee.Skills;

employee.DateOfBirth = updatedEmployee.DateOfBirth;

return Ok(employee);

}

}

**OUTPUT:**



