1. WebApi Handson

**Code :**

**EmployeeController.cs :**

using Microsoft.AspNetCore.Mvc;

using MyFirstWebAPI.Models;

using MyFirstWebAPI.Filters;

[ServiceFilter(typeof(CustomAuthFilter))]

[ApiController]

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

public class EmployeeController : ControllerBase

{

private readonly List<Employee> \_employees;

public EmployeeController()

{

\_employees = GetStandardEmployeeList();

}

private List<Employee> GetStandardEmployeeList()

{

return new List<Employee>

{

new Employee {

Id = 1,

Name = "John",

Salary = 50000,

Permanent = true,

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

Skills = new List<Skill>

{

new Skill { Id = 1, Name = "C#" },

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

},

DateOfBirth = new DateTime(1990, 01, 01)

}

};

}

[HttpPut("{id}")]

[ProducesResponseType(StatusCodes.Status200OK)]

[ProducesResponseType(StatusCodes.Status400BadRequest)]

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

{

if (id <= 0)

return BadRequest("Invalid employee id");

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

if (existingEmployee == null)

return BadRequest("Invalid employee id");

// Update fields manually

existingEmployee.Name = updatedEmployee.Name;

existingEmployee.Salary = updatedEmployee.Salary;

existingEmployee.Permanent = updatedEmployee.Permanent;

existingEmployee.Department = updatedEmployee.Department;

existingEmployee.Skills = updatedEmployee.Skills;

existingEmployee.DateOfBirth = updatedEmployee.DateOfBirth;

return Ok(existingEmployee);

}

[HttpPost]

public IActionResult AddEmployee([FromBody] Employee employee)

{

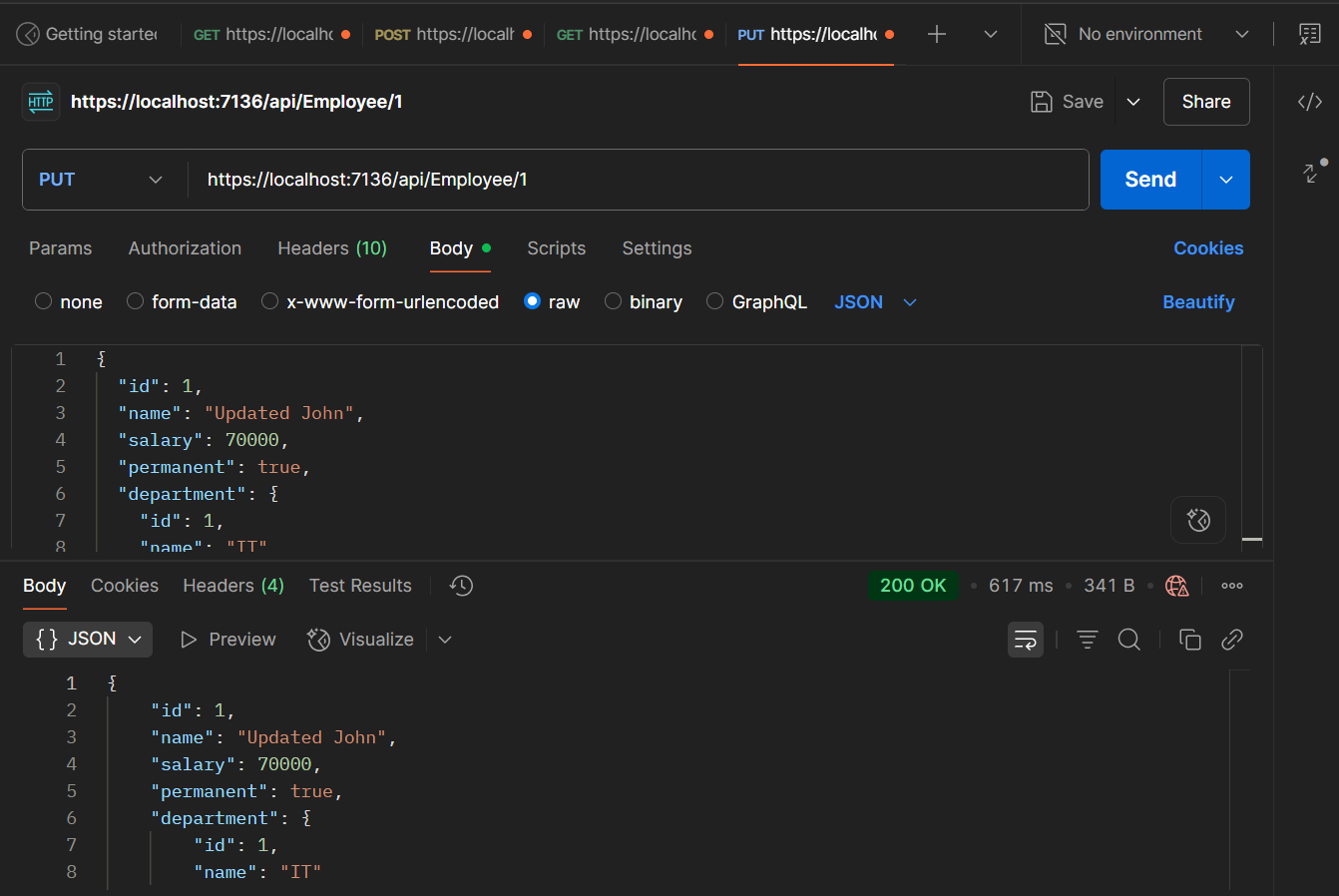
\_employees.Add(employee);

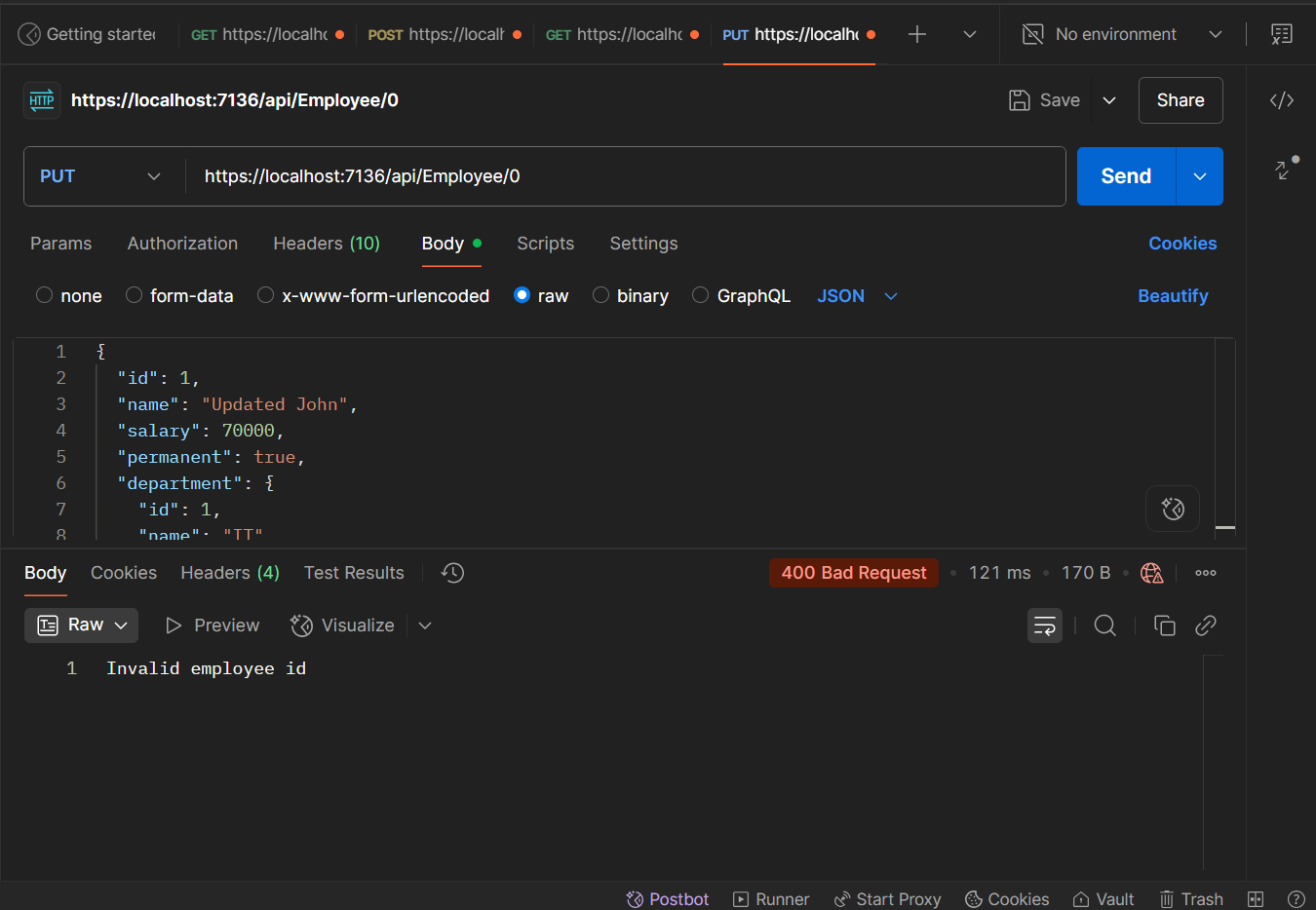
return Ok(employee);

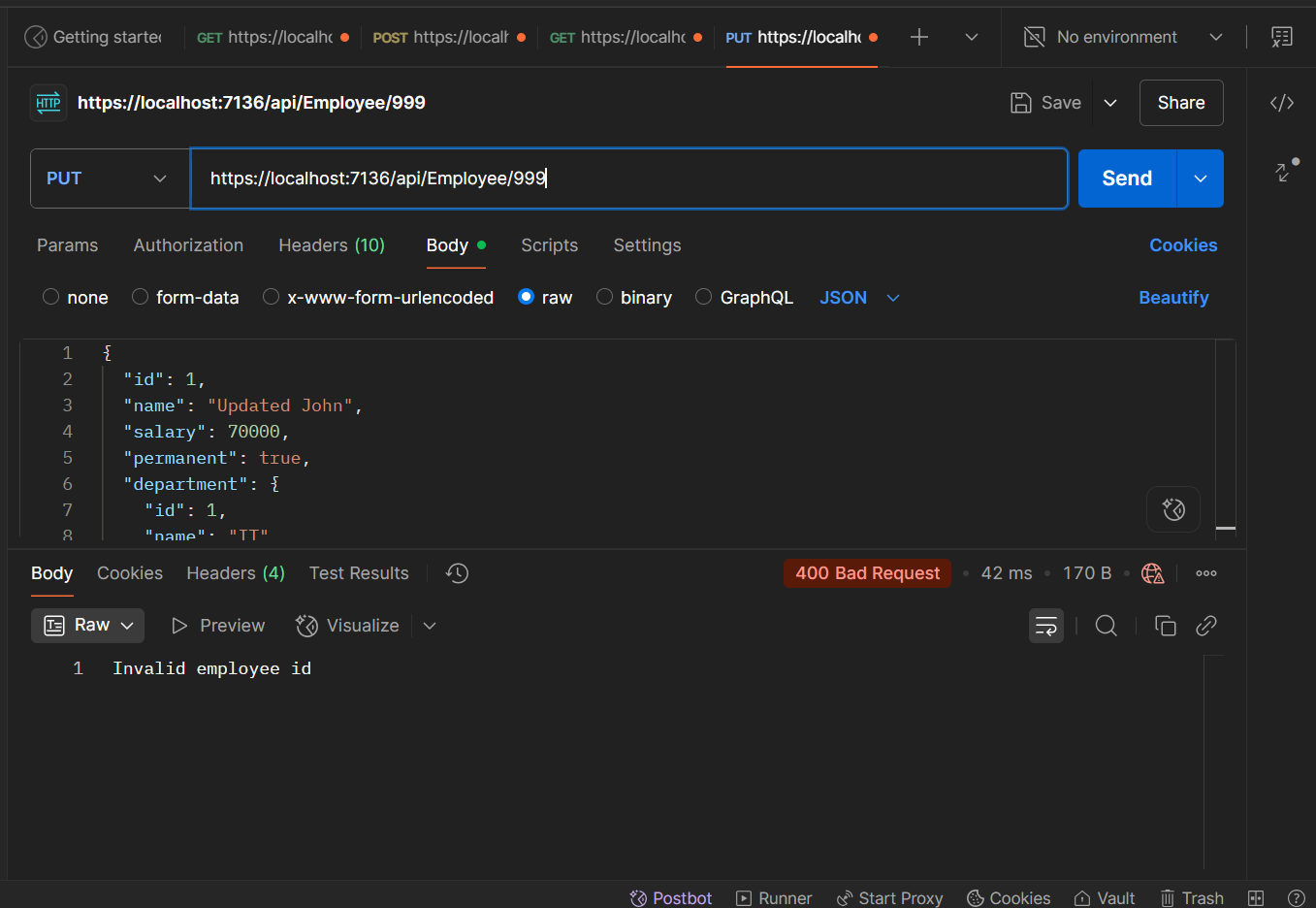
}

}

**Output :**

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