

## DotNet Task 2

### **Dotnet Task2**

Create a **Web API Core application** with a static collection for an Employee.

1. **Employee Model** should have the following fields.
  - Id (mandatory)
  - Name (min 3 letters and max 30 letters)
  - Department
  - MobileNo (only 10 digits allowed)
  - Email (proper email id)
2. Apply **validations** in the above fields using Data Annotations.
3. **Create an API Controller** which contains all the methods like : get,post,put,patch,delete,head and options.
  - **Action Methods:**
    - GetEmployeeById()
    - GetAllEmployees()
    - GetEmployeesByDept()
    - AddEmployee()
    - UpdateEmployee()
    - DeleteEmployee()
    - UpdateEmployeeEmail()

Use necessary http methods for the above action method.

4. Use **FromQuery, FromRoute,FromBody** for the above methods wherever is necessary for the above action methods.
5. Test it with swagger or postman with all the end points.
6. Finally, create a client Application using Console Application (.net framework)

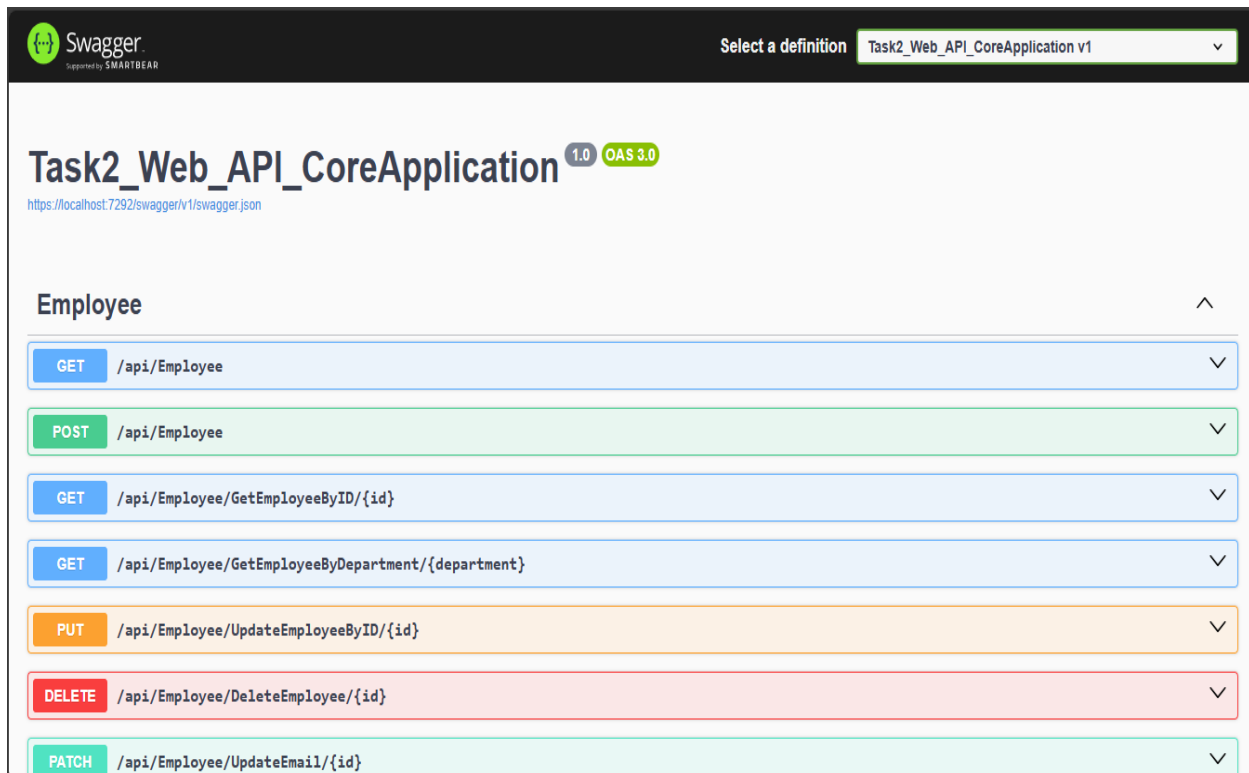
**Note :** Install the necessary **Nuget packages** and mention the namespaces used in both server and client applications.

**ApplicationSide:** [https://github.com/mahesh-dotnet-pune/Task2\\_Web\\_API\\_CoreApplication.git](https://github.com/mahesh-dotnet-pune/Task2_Web_API_CoreApplication.git)

**ClientSide:** [https://github.com/mahesh-dotnet-pune/Task2\\_ClientApplication.git](https://github.com/mahesh-dotnet-pune/Task2_ClientApplication.git)

## OUTPUT

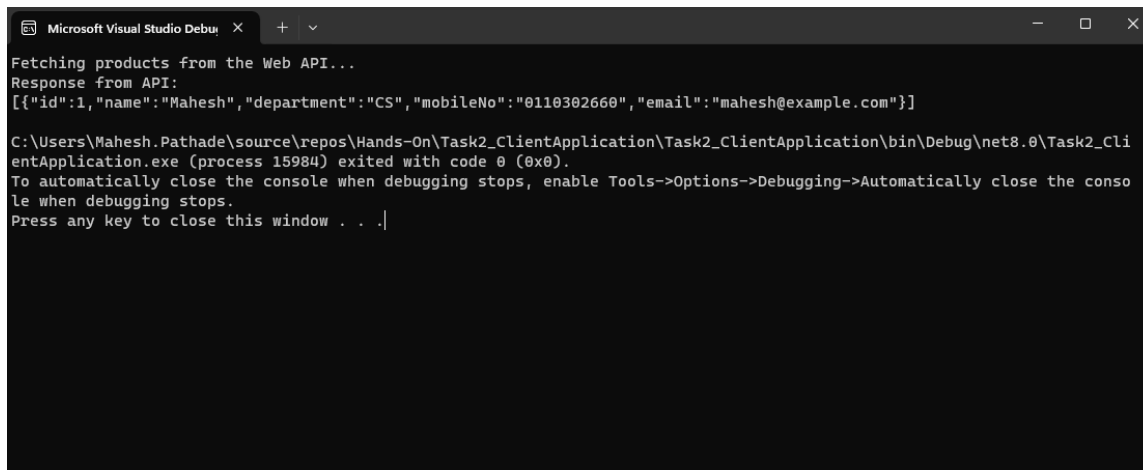
### Application Side:



The image shows the Swagger UI for the 'Task2\_Web\_API\_CoreApplication v1'. The interface includes the Swagger logo, a 'Select a definition' dropdown menu, and the API title 'Task2\_Web\_API\_CoreApplication' with version '1.0' and 'OAS 3.0'. The URL 'https://localhost:7292/swagger/v1/swagger.json' is displayed. Below the title, the 'Employee' resource is listed with seven endpoints, each with a method (GET, POST, PUT, DELETE, PATCH) and a dropdown arrow.

Method	Endpoint
GET	/api/Employee
POST	/api/Employee
GET	/api/Employee/GetEmployeeByID/{id}
GET	/api/Employee/GetEmployeeByDepartment/{department}
PUT	/api/Employee/UpdateEmployeeByID/{id}
DELETE	/api/Employee/DeleteEmployee/{id}
PATCH	/api/Employee/UpdateEmail/{id}

### Client Side Console:



The image shows the Microsoft Visual Studio Debug Console. The output text is as follows:

```
Microsoft Visual Studio Debug Console
Fetching products from the Web API...
Response from API:
[{"id":1,"name":"Mahesh","department":"CS","mobileNo":"0110302660","email":"mahesh@example.com"}]

C:\Users\Mahesh.Pathade\source\repos\Hands-On\Task2_ClientApplication\Task2_ClientApplication\bin\Debug\net8.0\Task2_ClientApplication.exe (process 15984) exited with code 0 (0x0).
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .]
```