

Assignment 2- 8th October

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Batch: Dotnet - Pune

Q: Create a Web API Core application with a static collection for an Employee,

1. Employee Model should have the following field

Id (mandatory) Name (min 3 letters and max 30 letters) Department. MobileNa (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() GetEmployees@yDept() AddEmployee() Update Employee() Delete Employee() UpdateEmployeeEmail() Use necessary http methods for the above action method.

4. Use FromQuery, From Route, 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.

Solution:

Github Repository: [dipanshu-dotnet-pune/EmployeeWebAPICore-Assignment-8-October-](https://github.com/dipanshu-dotnet-pune/EmployeeWebAPICore-Assignment-8-October-)

Output:

The image displays two screenshots of the Swagger UI interface, showing the API endpoints for the 'EmployeeApi v1'.

Top Screenshot: The interface shows the 'Employee' section with the following endpoints:

- GET /api/Employee
- POST /api/Employee
- HEAD /api/Employee
- OPTIONS /api/Employee
- GET /api/Employee/{id}
- PUT /api/Employee/{id}
- DELETE /api/Employee/{id}

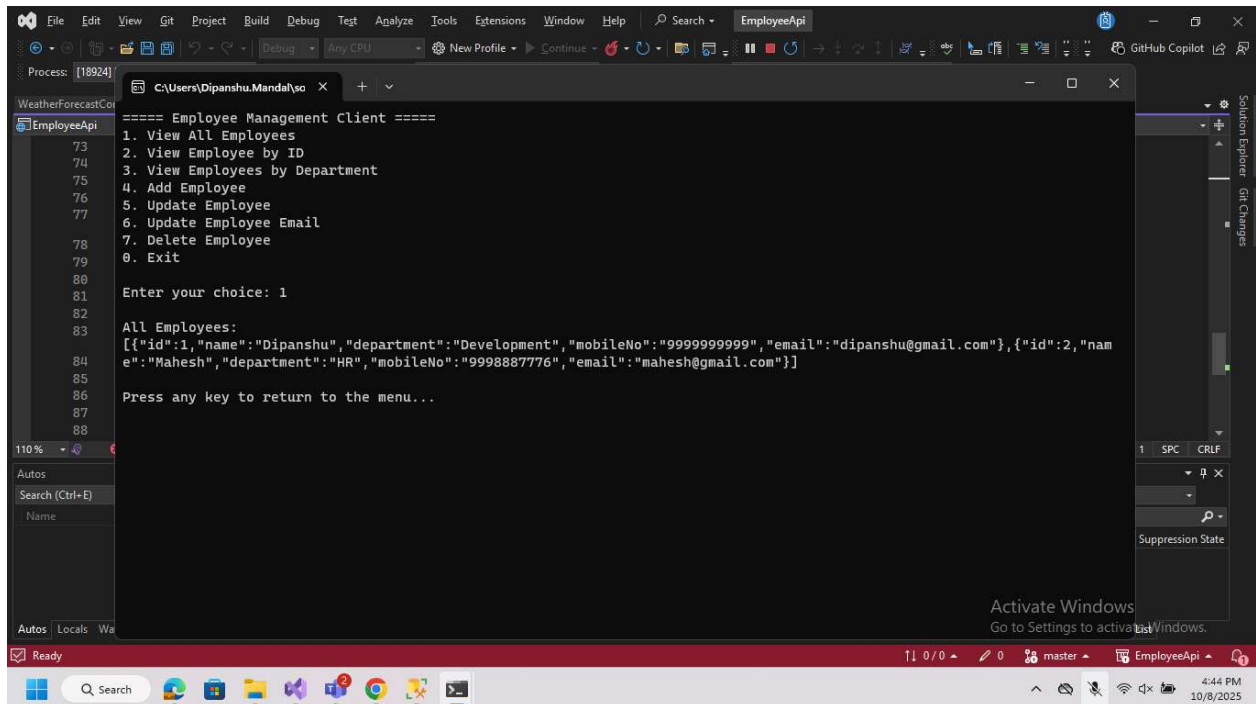
Bottom Screenshot: The interface shows the 'WeatherForecast' section with the following endpoints:

- GET /WeatherForecast

Below the endpoints, the 'Schemas' section is visible, showing the 'Employee' schema.

Console App:

-View All Employees



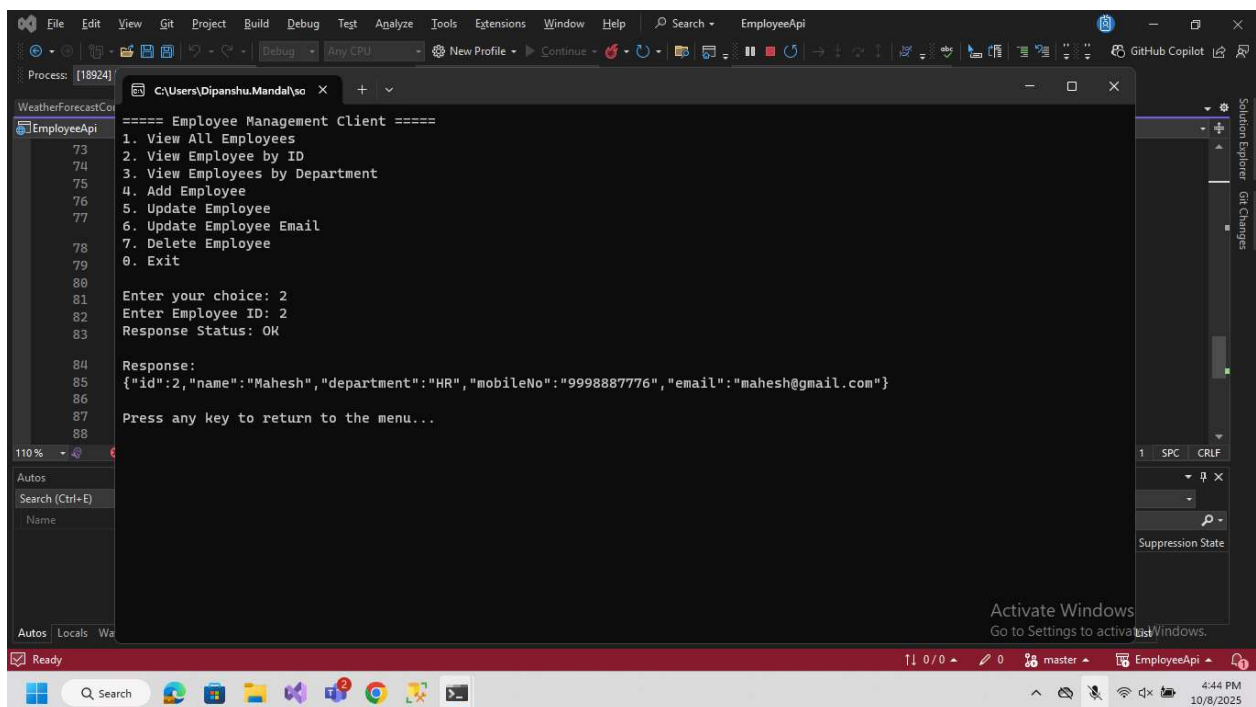
```
==== Employee Management Client ====
1. View All Employees
2. View Employee by ID
3. View Employees by Department
4. Add Employee
5. Update Employee
6. Update Employee Email
7. Delete Employee
8. Exit

Enter your choice: 1

All Employees:
[{"id":1,"name":"Dipanshu","department":"Development","mobileNo":"9999999999","email":"dipanshu@gmail.com"}, {"id":2,"name":"Mahesh","department":"HR","mobileNo":"9998887776","email":"mahesh@gmail.com"}]

Press any key to return to the menu...
```

-View Employee by ID



```
==== Employee Management Client ====
1. View All Employees
2. View Employee by ID
3. View Employees by Department
4. Add Employee
5. Update Employee
6. Update Employee Email
7. Delete Employee
8. Exit

Enter your choice: 2
Enter Employee ID: 2
Response Status: OK

Response:
{"id":2,"name":"Mahesh","department":"HR","mobileNo":"9998887776","email":"mahesh@gmail.com"}

Press any key to return to the menu...
```

-View Employee by Department

```
==== Employee Management Client ====
1. View All Employees
2. View Employee by ID
3. View Employees by Department
4. Add Employee
5. Update Employee
6. Update Employee Email
7. Delete Employee
8. Exit

Enter your choice: 3
Enter Department: HR

Response:
[{"id":2,"name":"Mahesh","department":"HR","mobileNo":"9998887776","email":"mahesh@gmail.com"}]

Press any key to return to the menu...
```

-Add Employee

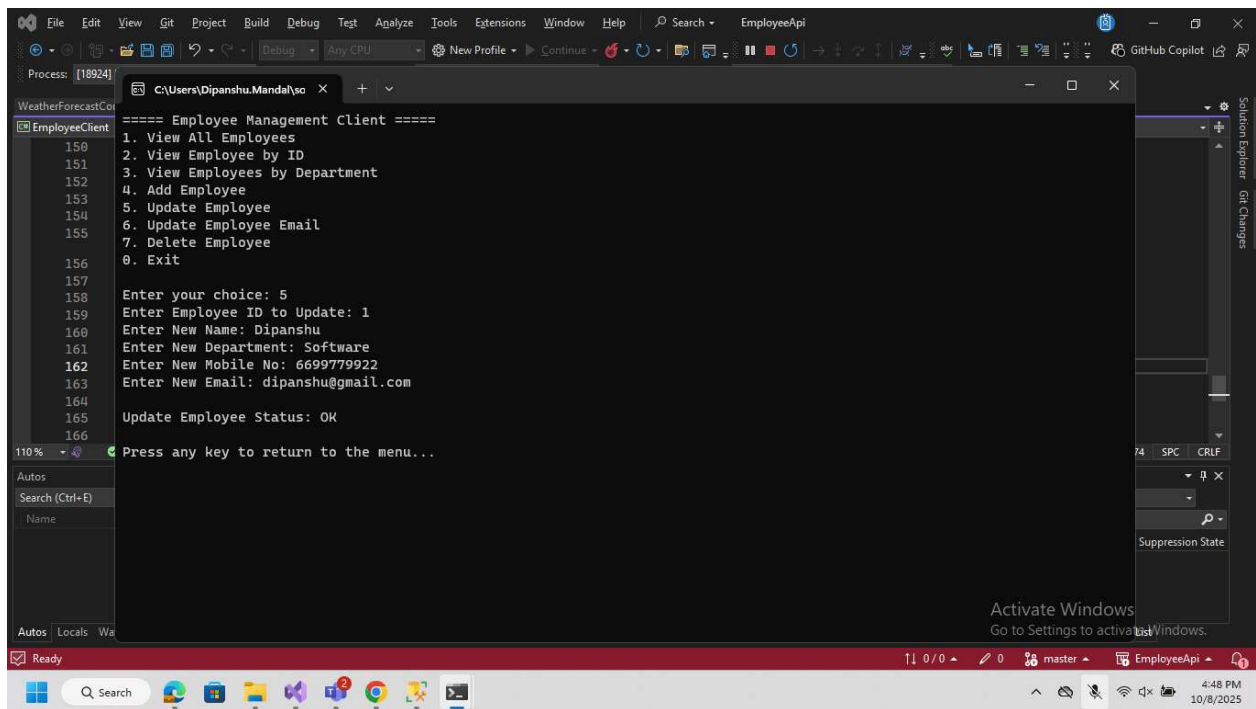
```
==== Employee Management Client ====
1. View All Employees
2. View Employee by ID
3. View Employees by Department
4. Add Employee
5. Update Employee
6. Update Employee Email
7. Delete Employee
8. Exit

Enter your choice: 4
Enter ID: 3
Enter Name: Dev
Enter Department: IT
Enter Mobile No (10 digits): 9999966666
Enter Email: dev@gmail.com

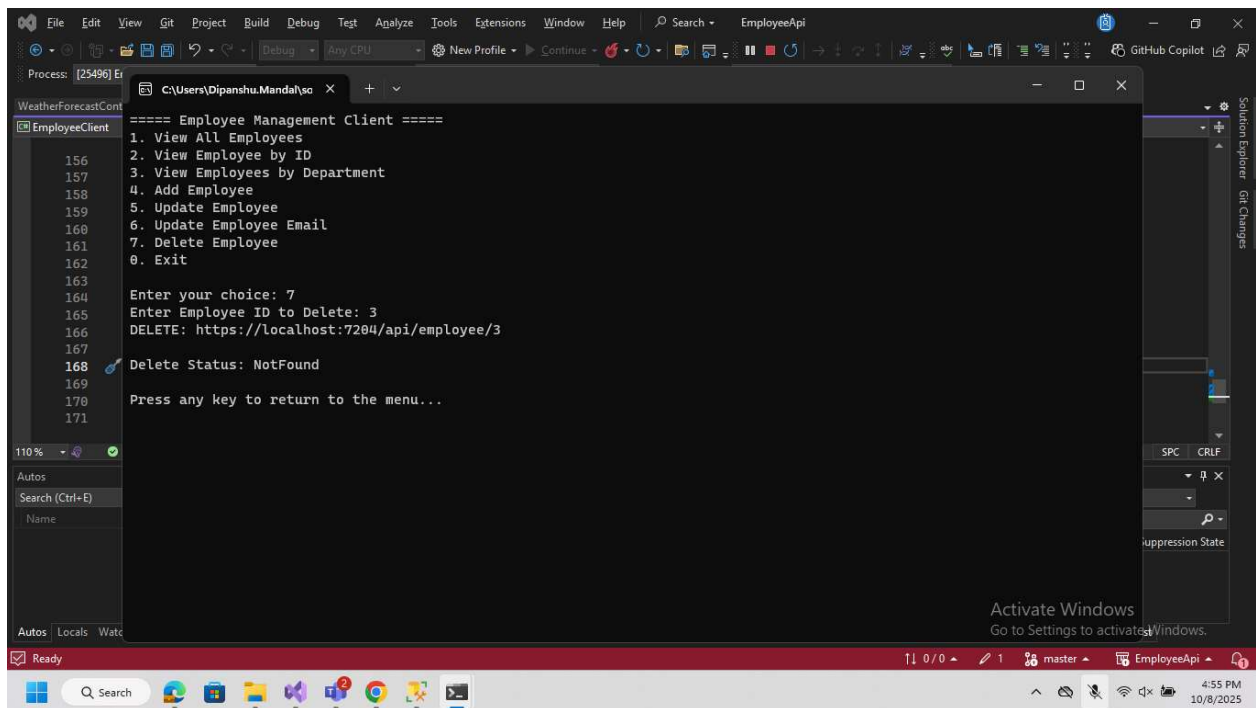
Add Employee Status: Created

Press any key to return to the menu...
```

-Update Employee



-Delete Employee



Successfully Deleted the Employee with ID=3

```
==== Employee Management Client ====
1. View All Employees
2. View Employee by ID
3. View Employees by Department
4. Add Employee
5. Update Employee
6. Update Employee Email
7. Delete Employee
0. Exit

Enter your choice: 1

All Employees:
[{"id":1,"name":"Dipanshu","department":"Development","mobileNo":"999999999","email":"dipanshu@gmail.com"}, {"id":2,"name":"Mahesh","department":"HR","mobileNo":"9998887776","email":"mahesh@gmail.com"}]

Press any key to return to the menu...
|
```

-Update Employee Email

```
==== Employee Management Client ====
1. View All Employees
2. View Employee by ID
3. View Employees by Department
4. Add Employee
5. Update Employee
6. Update Employee Email
7. Delete Employee
0. Exit

Enter your choice: 6
Enter Employee ID: 1
Enter New Email: dipanshumandal@gmail.com

Update Email Status: OK

Press any key to return to the menu...
|
```

Email updated successfully

File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search EmployeeApi

Process: [15780] C:\Users\Dipanshu.Mandal\src

```
==== Employee Management Client ====
1. View All Employees
2. View Employee by ID
3. View Employees by Department
4. Add Employee
5. Update Employee
6. Update Employee Email
7. Delete Employee
0. Exit

Enter your choice: 1

All Employees:
[{"id":1,"name":"Dipanshu","department":"Development","mobileNo":"9999999999","email":"dipanshumandal@gmail.com"}, {"id":
2,"name":"Mahesh","department":"HR","mobileNo":"9998887776","email":"mahesh@gmail.com"}]

Press any key to return to the menu...
|
```

110% Autos Search (Ctrl+E) Name

Activate Windows Go to Settings to activate Windows.

Ready 0/0 master EmployeeApi 5:06 PM 10/8/2025