ASP.NET Core 8.0 Web API -1

- Explain the concept of RESTful web service, Web API & Microservice
- Explain what is HttpRequest & HttpResponse
- List the types of Action Verbs
- List the types of HttpStatusCodes used in WebAPI
- Demonstrate creation of a simple WebAPI - With Read, Write actions
- Explain the types of Configuration files of WebAPI

1. First Web Api using .Net core

- Create a .Net core web application with API template.
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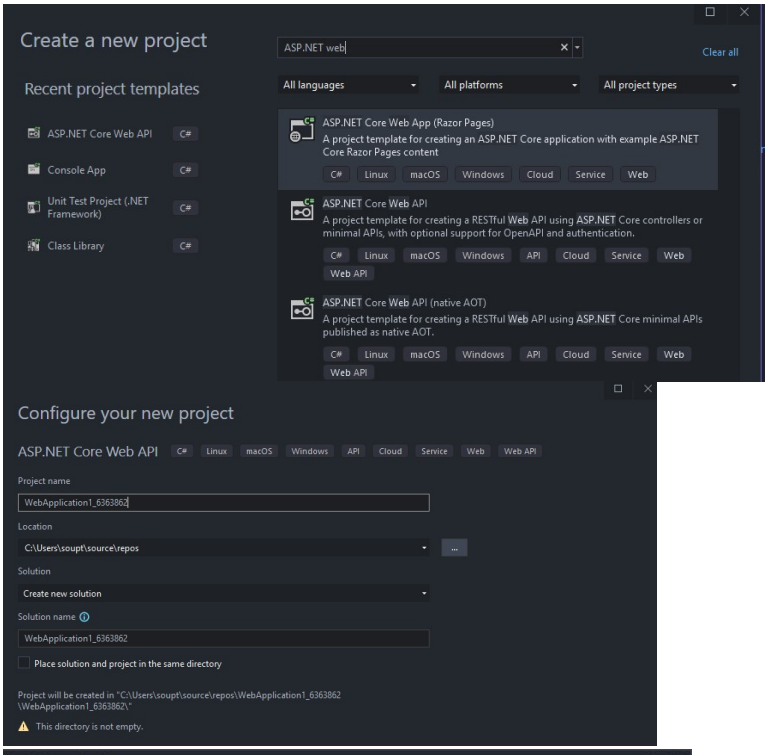
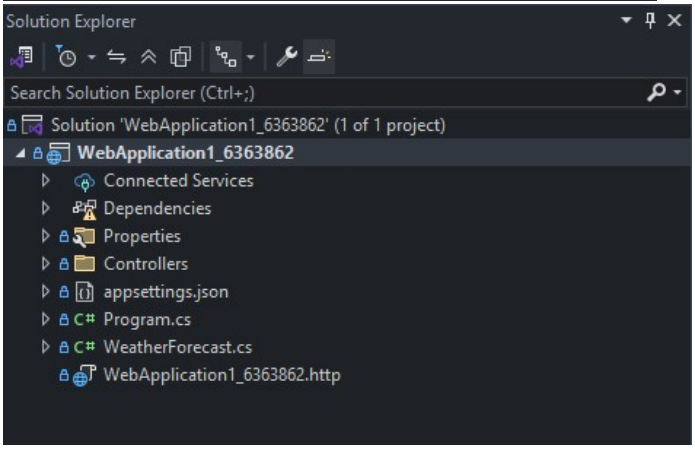
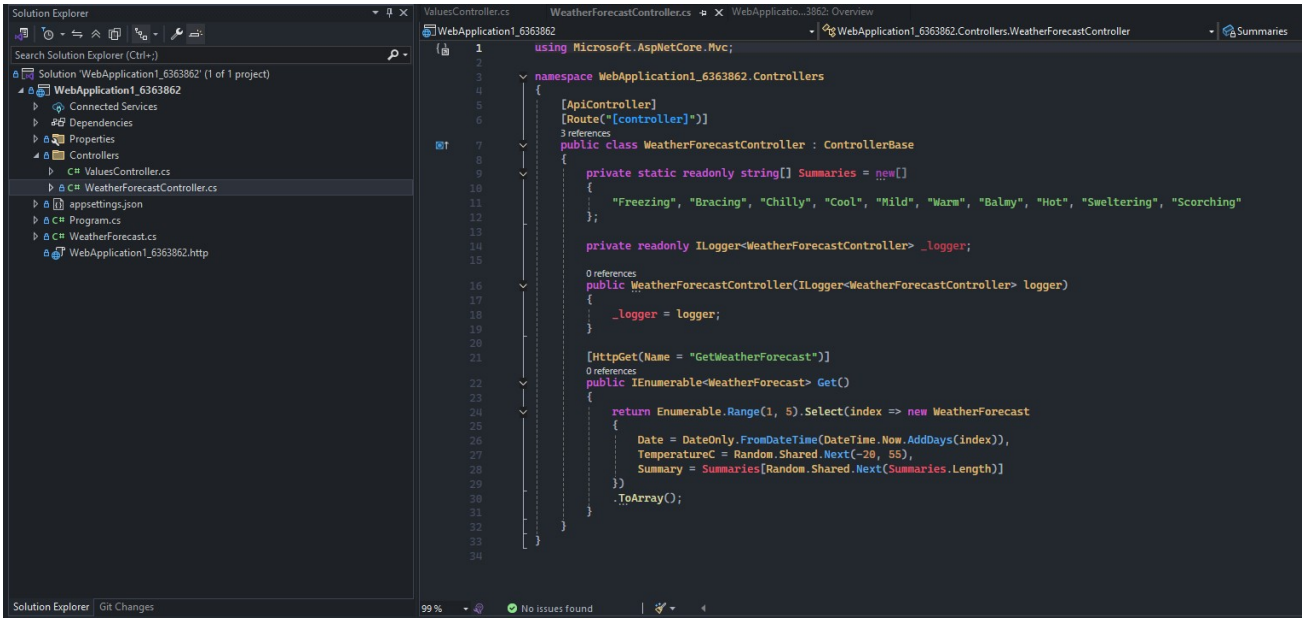


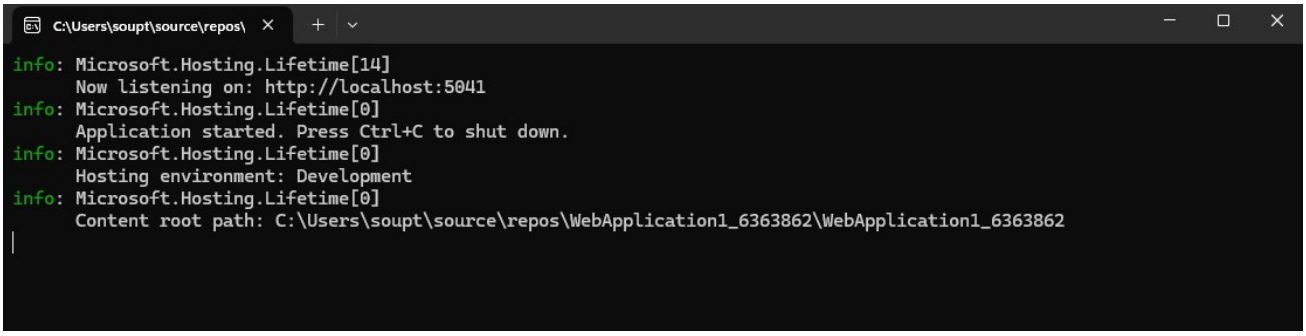


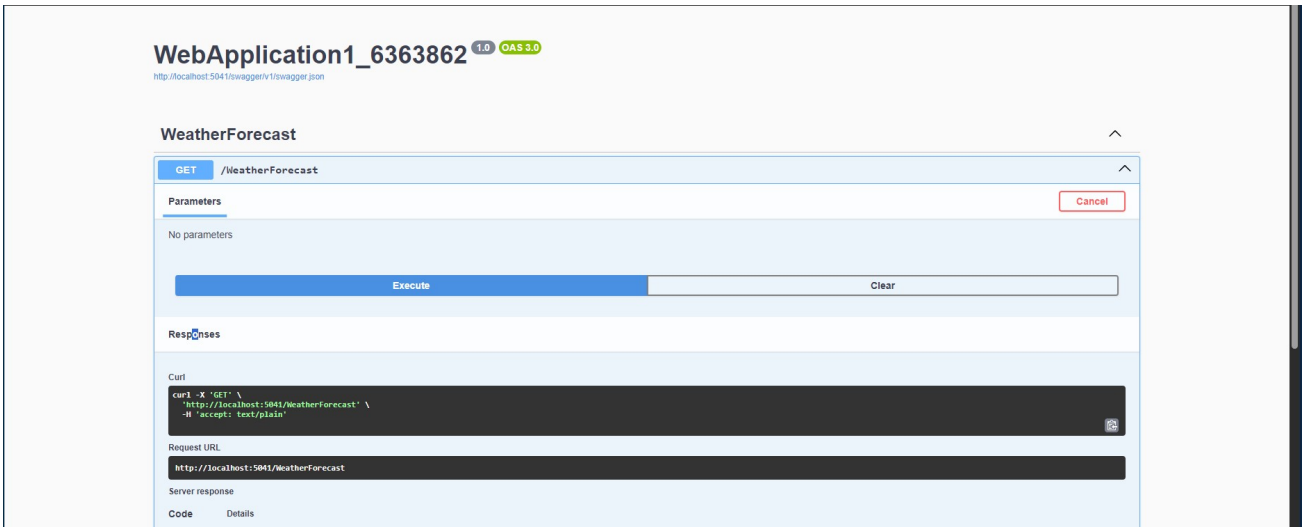
- Use the option to create controller with Read Write permissions.

- Notice the ValuesController creation with Action methods corresponding to the Action verbs.



- On creation of the Web API, execute the application and check if the GET action method result is returned exxecuted





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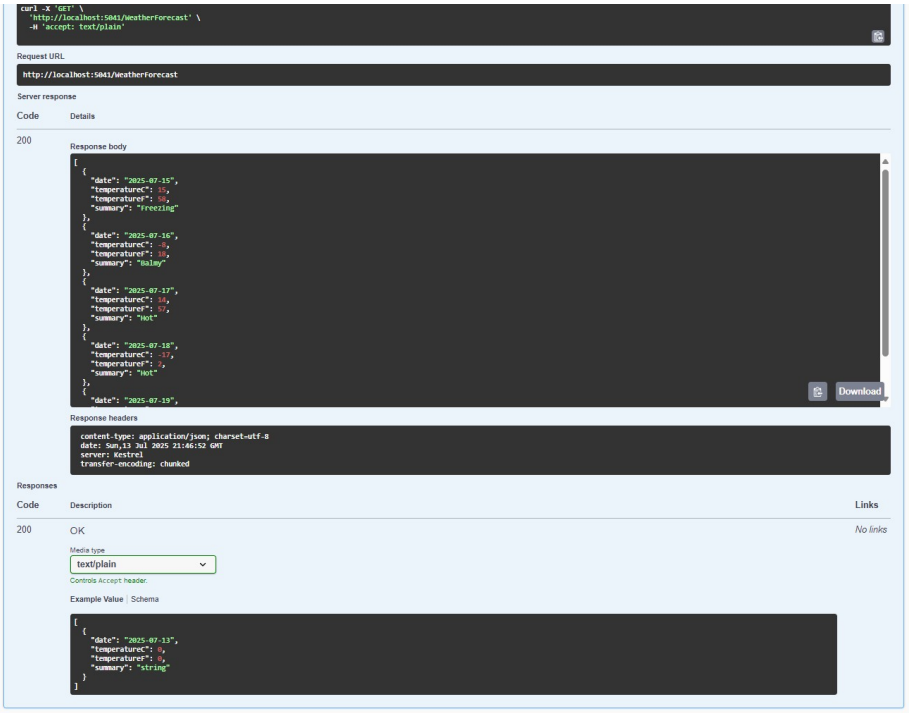

```
curl -X 'GET' \
  'http://localhost:5041/WeatherForecast' \
  -H 'accept: text/plain'
```

Request URL

```
http://localhost:5041/WeatherForecast
```

Server response

Code | Details

200

Response body


```
[
  {
    "date": "2025-07-15",
    "temperatureC": 13,
    "temperatureF": 55,
    "summary": "Freezing"
  },
  {
    "date": "2025-07-16",
    "temperatureC": -8,
    "temperatureF": 18,
    "summary": "Balmy"
  },
  {
    "date": "2025-07-17",
    "temperatureC": 14,
    "temperatureF": 57,
    "summary": "Hot"
  },
  {
    "date": "2025-07-18",
    "temperatureC": -17,
    "temperatureF": 2,
    "summary": "Hot"
  },
  {
    "date": "2025-07-19",
```


Download

Response headers

```
content-type: application/json; charset=utf-8
date: Sun,13 Jul 2025 21:46:52 GMT
server: Kestrel
transfer-encoding: chunked
```

Responses

Code	Description	Links
200	OK	*No links*

Media type

text/plain

Controls Accept header.

Example Value | Schema


```
[
  {
    "date": "2025-07-13",
    "temperatureC": 0,
    "temperatureF": 0,
    "summary": "string"
  }
]
```