

# Asp.Net Core 7 (.NET 7) | True Ultimate Guide

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[udemy.com/course/asp-net-core-true-ultimate-guide-real-project/learn/practice/1441474/introduction](https://www.udemy.com/course/asp-net-core-true-ultimate-guide-real-project/learn/practice/1441474/introduction)

Istruzioni per il compito

In this assignment exercise, you will redevelop the previous assignment (Weather App) with Services and Dependency Injection.

## Requirement:

Imagine a weather application that shows weather details of the selected city. Create an Asp.Net Core Web Application that fulfils this requirement.

Consider the following hard-coded weather data of 3 cities.

1. CityUniqueCode = "LDN", CityName = "London", DateAndTime = "2030-01-01 8:00", TemperatureFahrenheit = 33
2. CityUniqueCode = "NYC", CityName = "London", DateAndTime = "2030-01-01 3:00", TemperatureFahrenheit = 60
3. CityUniqueCode = "PAR", CityName = "Paris", DateAndTime = "2030-01-01 9:00", TemperatureFahrenheit = 82

Consider a model class called 'CityWeather' with following properties:

1. string CityUniqueCode
2. string CityName
3. DateTime DateAndTime
4. int TemperatureFahrenheit

## Example #1:

If you receive a HTTP GET request at path "/", it has to generate a view with weather details of all cities with HTTP status code 200.

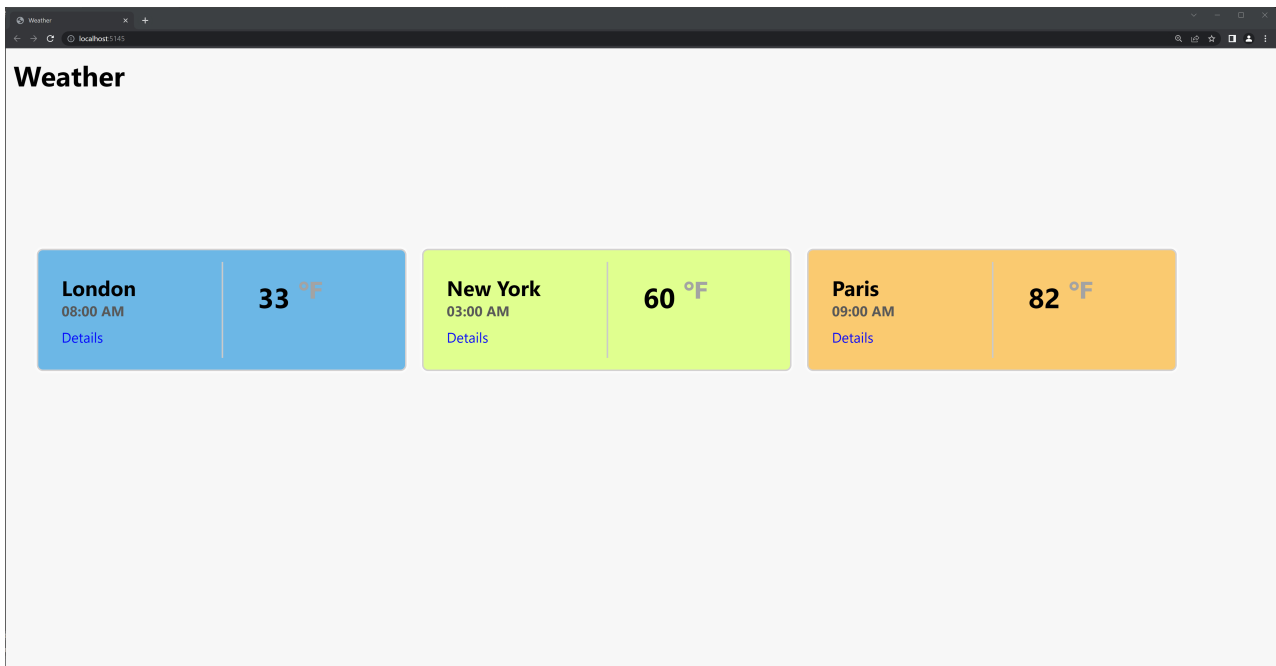
Request Url: /

Request Method: GET

Response Status Code: 200

Response body (output):

View as shown below.



### Example #2:

If you receive a HTTP GET request at path `"/weather/{cityCode}"`, it has to generate a view with weather details of the selected city s with HTTP status code 200.

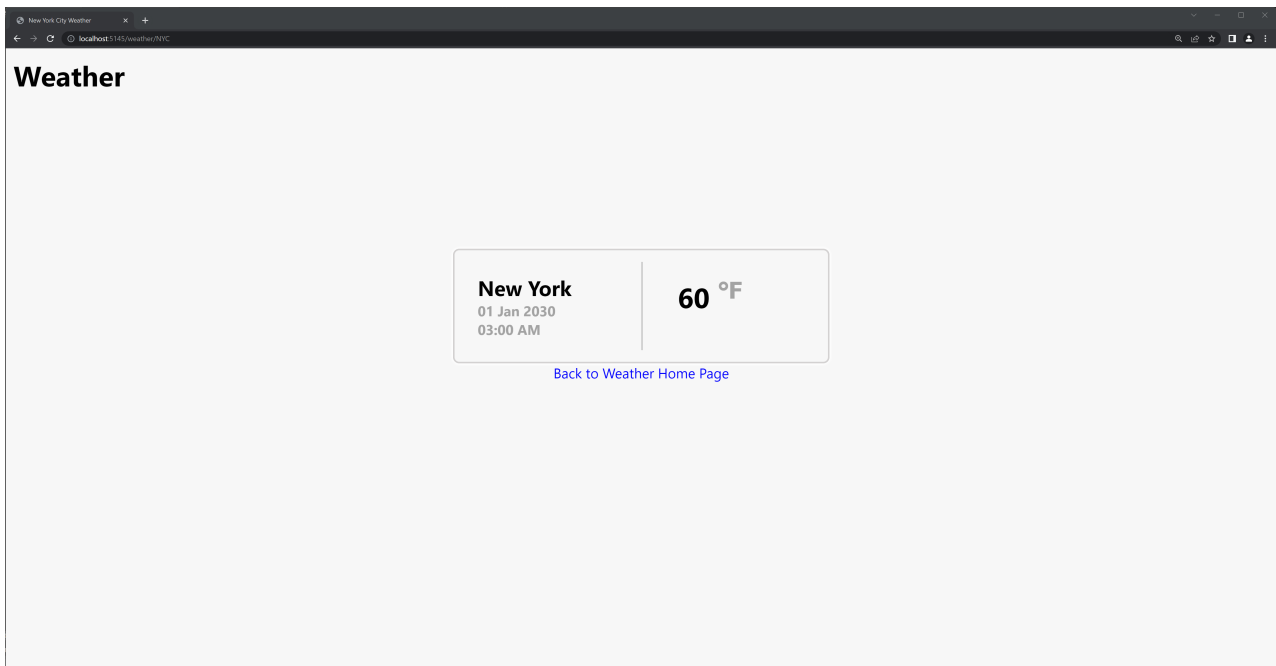
Request Url: /

Request Method: GET

Response Status Code: 200

Response body (output):

View as shown below.



## Instructions:

- Create controller(s) with attribute routing.
- Create a service called "WeatherService" that implements the following service contract (interface).
  1. IWeatherService
  2. - `List<CityWeather> GetWeatherDetails()` - Returns a list of CityWeather objects that contains weather details of cities
  3. - `CityWeather? GetWeatherByCityCode(string CityCode)` - Returns an object of CityWeather based on the given city code
- Inject the WeatherService into controller using constructor injection. Call the appropriate service methods in action methods, accordingly.
- Initialize the hard-coded data as collection of model objects in the service.
- Use strongly-typed views. Send model object(s) to view.
- If you supply an invalid city code as route parameter, it should show a page with proper error message, instead of throwing an exception.
- Use CSS styles, layout views, `_ViewImports`, `_ViewStart`, view components as per the necessity.
- The UI should be consistent and modern. It should minimum look like as shown in the screenshot. Optionally, you can try enhancing it based on your thoughts.

- You can create a view component that displays weather details of a single city; and invoke the same in "Index" view in foreach loop while reading city details.
- Apply background color for each box, based on the following categories of temperature value. Write essential code in view component, to determine the appropriate css class to apply background color.
  1. Fahrenheit is less than 44 = blue background color
  2. Fahrenheit is between 44 and 74 = blue background color
  3. Fahrenheit is greater than 74 = blue background color

## Contenuto del corso

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