

# **Weather Stack Net Core**

Sample .NET Core Application for consuming Weather Stack API

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# 1 Symbol Reference

# 1.1 Files

The following table lists files in this documentation.

#### **Files**

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AutoCompleteController.cs (☐ see page 2)	This is file AutoCompleteController.cs.
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BaseController.cs ( see page 6)	This is file BaseController.cs.
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WeatherStackNetCore.sln (☐ see page 17)	This is file WeatherStackNetCore.sln.
WeatherStackNetCore.Tests.csproj (	This is file WeatherStackNetCore.Tests.csproj.

# 1.1.1 AutoComplete.cs

This is file AutoComplete.cs.

1.1 Files Weather Stack Net Core AutoCompleteController.cs

### **Body Source**

```
?namespace WeatherStackNetCore.Utils;

/// <summary>
/// API Request Result Class
/// </summary>
public class AutoComplete
{
   public LocationRequest request { get; set; }
   public string success { get; set; }
   public Error error { get; set; }
}
```

# 1.1.2 AutoCompleteController.cs

This is file AutoCompleteController.cs.

#### **Body Source**

```
?using System.Runtime.Serialization.Json;
using System.Text;
using Microsoft.AspNetCore.Mvc;
using WeatherStackNetCore.Models;
using WeatherStackNetCore.Utils;
namespace WeatherStackNetCore.Controllers;
/// <summary>
/// This controller is used to
/// Call API function which is about location searching
/// </summary>
public class AutoCompleteController : BaseController
    /// <summary>
    /// Config element
    /// </summary>
   private readonly IConfiguration _configuration;
    /// <summary>
    /// This is the constructor of controller
    /// </summary>
    /// <param name="config"></param>
   public AutoCompleteController(IConfiguration config)
        // this is used to get some key values from appSettings. Json
        _configuration = config;
    /// <summary>
    /// This is used to show Location search page
    /// </summary>
/// <returns>Location search page</returns>
    public IActionResult IndexWithJQuery()
        var model = new AutoCompleteViewModel();
        return View(model);
    /// <summary>
    /// This is used to show Location search page
    /// </summary>
    /// <returns>Location search page</returns>
    public IActionResult IndexWithModel(AutoCompleteViewModel? model)
```

1.1 Files Weather Stack Net Core AutoCompleteController.cs

```
{
    model ??= new AutoCompleteViewModel();
    return View(model);
/// <summary>
/// This method is used to make WeatherStack Current API call
/// And bring the result to the screen
/// </summary>
/// <param name="placeName">General Parameter (Like City Name, County Name etc)</param>
/// <returns>Location Info</returns>
[HttpPost]
public async Task<AutoComplete?> GetLocations(string placeName)
    try
        var autoComplete = await CallAutoCompleteFromAPI(placeName);
        return autoComplete;
    catch (Exception e)
        return null;
}
/// <summary>
/// This method is used to make WeatherStack Current API call
/// And bring the result to the screen
/// But in this method we use the whole model
/// </summary>
/// <param name="model">Location Search Page Elements</param>
/// <returns>Result Page</returns>
[HttpPost]
[ValidateModel]
public async Task<IActionResult> GetLocationsWithModel(AutoCompleteViewModel model)
        // if (!ModelState.IsValid) return View("IndexWithModel", model);
        var autoComplete = await CallAutoCompleteFromAPI(model.PlaceName);
        model = new AutoCompleteViewModel
        {
            AutoComplete = autoComplete
        };
        if (model.AutoComplete.error != null)
            SetErrorMessage(model.AutoComplete.error.info);
        else
            SetSuccessMessage();
        return View("IndexWithModel", model);
    catch (Exception e)
        model = new AutoCompleteViewModel
            AutoComplete = null
        };
        SetErrorMessage("Something has gone wrong");
        return View("IndexWithModel", model);
    }
}
/// <summary>
/// This method is used to call WeatherStack API with place name
```

```
/// And get the city info
    /// </summary>
    /// <param name="placeName">Place Name</param>
    /// <returns>Auto Complete Data (City etc. Data)</returns>
   private async Task<AutoComplete> CallAutoCompleteFromAPI(string? placeName)
        var apiKey = _configuration.GetValue<string>("API_Key");
        var httpClient = new HttpClient();
        httpClient.Timeout = new TimeSpan(0, 0, 30);
        var requestString = "http://api.weatherstack.com/" +
$"autocomplete?access_key={apiKey}&query={placeName}";
        var response = await httpClient.GetAsync(requestString);
        var result = await response.Content.ReadAsStringAsync();
        var serializer = new DataContractJsonSerializer(typeof(AutoComplete));
        var memoryStream = new MemoryStream(Encoding.UTF8.GetBytes(result));
        var autoComplete = (AutoComplete) serializer.ReadObject(memoryStream)!;
        return autoComplete;
}
```

### 1.1.3 AutoCompleteControllerTests.cs

 $This is file \ Auto Complete Controller Tests. cs. \\$ 

#### **Body Source**

```
using Microsoft. Extensions. Configuration;
using Moq;
using WeatherStackNetCore.Controllers;
using WeatherStackNetCore.Models;
namespace WeatherStackNetCore.Tests.Controllers;
/// <summary>
/// Test class for the controller
/// Which is used to get location info from the
/// WeatherStack API
/// </summary>
public class AutoCompleteControllerTests
    /// <summary>
/// Location Info Model
    /// </summary>
    private AutoCompleteViewModel? _model;
    /// <summary>
    /// Config file for controller constructor
    /// </summarv>
    private IConfiguration? _config;
    /// <summary>
    /// Mock class instance
    /// </summary>
    private Mock? _mock;
    /// <summary>
    /// Controller instance
    /// </summary>
    private AutoCompleteController? _controller;
    /// <summary>
    /// This method is used to create setup
    /// Assign values which are necessary /// Before using test methods
    /// </summary>
```

```
[SetUp]
public void Setup()
    _model = new AutoCompleteViewModel
        PlaceName = "Ankara"
    _config = new ConfigurationManager();
    _controller = new AutoCompleteController(_config);
}
/// <summary>
/// Test method which is used for
/// Index action with model
/// </summary>
[Test]
public void IndexWithModel_Test()
    var result = _controller?.IndexWithModel(_model);
    Assert.That(result, Is.Not.Null);
/// <summary>
/// Test method which is used for
/// Get Location action with Model
/// </summary>
[Test]
public void GetLocationsWithModel_Test()
    var result = _controller?.GetLocationsWithModel(_model);
    Assert.That(result, Is.Not.Null);
/// <summary>
/// Test method which is used for
/// Index action with JQuery
/// </summary>
[Test]
public void IndexWithJQuery_Test()
    var result = _controller?.IndexWithJQuery();
    Assert.That(result, Is.Not.Null);
/// <summary>
/// Test method which is used for
/// Get Location action with JQuery
/// </summary>
[Test]
public void GetLocationsWithJQuery_Test()
    var result = _controller?.GetLocations(_model.PlaceName);
    Assert.AreSame(result.Exception, null);
```

## 1.1.4 AutoCompleteViewModel.cs

This is file AutoCompleteViewModel.cs.

### **Body Source**

}

```
using System.ComponentModel.DataAnnotations;
using WeatherStackNetCore.Utils;
namespace WeatherStackNetCore.Models;
```

1.1 Files Weather Stack Net Core BaseControllerTests.cs

```
/// <summary>
/// This model class is used to create the search page
/// And stores the result info too
/// </summary>
public class AutoCompleteViewModel
{
    #region Fields

    [Required(ErrorMessage = "Please Enter A Place Name")]
    [Display(Name = "Place Name:")]
    public string? PlaceName { get; set; }

    public AutoComplete? AutoComplete { get; init; }

    #endregion
}
```

### 1.1.5 BaseController.cs

This is file BaseController.cs.

#### **Body Source**

```
using Microsoft.AspNetCore.Mvc;
namespace WeatherStackNetCore.Controllers;
/// <summary>
/// This class is Base Controller class that
/// Some methods for all controllers have been added to this class
/// For recuding code lines etc.
/// </summary>
public class BaseController : Controller
    /// <summary>
    /// This method is used to set success message to ViewBag
    /// </summary>
   public void SetSuccessMessage()
        ViewBag.MessageType = "success";
        ViewBag.BoxType = "normal";
        ViewBag.Message = "Operation is successful";
    }
    /// <summarv>
    /// This method is used to set error message to ViewBag
    /// </summary>
    /// <param name="errorMessage">Specific Error Message</param>
   public void SetErrorMessage(string errorMessage)
        ViewBag.MessageType = "error";
        ViewBag.BoxType = "large";
       ViewBag.Message = errorMessage;
}
```

### 1.1.6 BaseControllerTests.cs

This is file BaseControllerTests.cs.

### **Body Source**

```
using Moq;
using WeatherStackNetCore.Controllers;
namespace WeatherStackNetCore.Tests.Controllers;
/// <summary>
/// Test class for the controller
/// Which is used to get current weather info from the
/// WeatherStack API
/// </summary>
public class BaseControllerTests
    /// <summary>
    /// Mock class instance
    /// </summary>
    private Mock? _mock;
    /// <summary>
    /// Controller instance
/// </summary>
    private BaseController _controller;
    /// <summary>
    /// This method is used to create setup
    /// Assign values which are necessary
    /// Before using test methods
    /// </summary>
    [SetUp]
    public void Setup()
        _controller = new BaseController();
    }
    /// <summary>
    /// Test method which is used for
/// Set Success Message for ViewBag
    /// </summary>
    [Test]
    public void SetSuccessMessage_Test()
        try
         {
              _controller.SetSuccessMessage();
            Assert.IsTrue(true);
        catch {
            Assert.IsTrue(false);
    }
    /// <summary>
/// Test method which is used for
    /// Set Error Message for ViewBag
    /// </summary>
    [Test]
    public void SetErrorMessage_Test()
         try
         {
              _controller.SetErrorMessage("Test");
            Assert.IsTrue(true);
        catch {
            Assert.IsTrue(false);
    }
}
```

1.1 Files Weather Stack Net Core CurrentWeatherController.cs

### 1.1.7 Current.cs

This is file Current.cs.

#### **Body Source**

```
?namespace WeatherStackNetCore.Utils;
/// <summary>
/// Query Place Current Weather Information Class
/// </summary>
public class Current
    public string observation_time { get; set; }
    public decimal temperature { get; set; }
public decimal weather_code { get; set; }
    public List<string> weather_icons { get; set; }
    public List<string> weather_descriptions { get; set; }
public decimal wind_speed { get; set; }
    public decimal wind_degree { get; set; }
    public string wind_dir { get; set; }
public decimal pressure { get; set; }
    public decimal precip { get; set; }
    public decimal humidity { get; set; }
public decimal cloudcover { get; set; }
    public decimal feelslike { get; set; }
    public decimal uv_index { get; set; }
    public decimal visibility { get; set; }
}
```

### 1.1.8 CurrentWeather.cs

This is file CurrentWeather.cs.

### **Body Source**

```
?namespace WeatherStackNetCore.Utils;

/// <summary>
/// API Request Result Class
/// </summary>
public class CurrentWeather
{
   public GeneralRequest request { get; set; }
   public Location location { get; set; }
   public Current current { get; set; }
   public string success { get; set; }
   public Error error { get; set; }
}
```

# 1.1.9 CurrentWeatherController.cs

This is file CurrentWeatherController.cs.

#### **Body Source**

```
?using System.Runtime.Serialization.Json;
using System.Text;
```

1.1 Files Weather Stack Net Core CurrentWeatherController.cs

```
using Microsoft.AspNetCore.Mvc;
using WeatherStackNetCore.Models;
using WeatherStackNetCore.Utils;
namespace WeatherStackNetCore.Controllers;
/// <summarv>
/// This controller is used to
/// Call API function which is about Current Weather Info searching
/// </summary>
public class CurrentWeatherController : BaseController
    /// <summarv>
    /// Config element
    /// </summary>
   private readonly IConfiguration _configuration;
    /// <summary>
/// This is the constructor of controller
    /// </summary>
    /// <param name="config"></param>
    public CurrentWeatherController(IConfiguration config)
        // this is used to get some key values from appSettings.Json
        _configuration = config;
    }
    /// <summary>
/// This is used to show Current Weather search page
    /// </summary>
    /// <returns>Current Weather search page</returns>
    public IActionResult IndexWithJQuery()
        var model = new CurrentWeatherViewModel();
        return View(model);
    }
    /// <summary>
    /// This is used to show Current Weather search page
    /// </summary>
    /// <returns>Current Weather search page</returns>
    public IActionResult IndexWithModel(CurrentWeatherViewModel? model)
        model ??= new CurrentWeatherViewModel();
        return View(model);
    }
    /// <summary>
    /// This method is used to make WeatherStack Current API call
    /// And bring the result to the screen
    /// </summary>
/// <param name="placeName">General Parameter (Like City Name, County Name etc)</param>
    /// <param name="unit">Unit Parameter</param>
    /// <param name="language">Language Parameter (You shouldn't fill this parameter if
your key is free version)</param>
    /// <returns>Current Weather Info</returns>
    [HttpPost]
    public async Task<CurrentWeather?> GetCurrentWeather(string placeName, string unit,
string language)
    {
        try
            var currentWeather = await GetCurrentWeatherFromAPI(placeName, unit, language);
            return currentWeather;
        catch (Exception e)
            return null;
```

1.1 Files Weather Stack Net Core CurrentWeatherController.cs

```
}
    /// <summary>
    /// This method is used to make WeatherStack Current API call
    /// And bring the result to the screen /// But in this method we use the whole model
    /// </summary>
    /// <param name="model">Current Weather Search Page Elements</param>
    /// <returns>Result Page</returns>
    [HttpPost]
    [ValidateModel]
    public async Task<IActionResult> GetCurrentWeatherWithModel(CurrentWeatherViewModel
model)
        try
            // if (!ModelState.IsValid) return View("IndexWithModel", model);
            var currentWeather = await GetCurrentWeatherFromAPI(model.PlaceName,
model.Unit, model.Language);
            model = new CurrentWeatherViewModel
                 CurrentWeather = currentWeather
             };
             if (model.CurrentWeather.error != null)
                 SetErrorMessage(model.CurrentWeather.error.info);
            else
                 SetSuccessMessage();
            return View("IndexWithModel", model);
        catch (Exception e)
            model = new CurrentWeatherViewModel
                 CurrentWeather = null
             };
            SetErrorMessage("Something has gone wrong");
            return View("IndexWithModel", model);
        }
    }
    /// <summary>
    /// This method is used to get Current Weather Info from Weather Stack API
    /// And return the result
    /// </summary>
    /// <param name="placeName">Place Name Info</param>
/// <param name="unit">Unit Info</param>
    /// <param name="language">Language Info</param>
    /// <returns></returns>
    private async Task<CurrentWeather> GetCurrentWeatherFromAPI(string placeName, string
unit, string language)
    {
        var apiKey = _configuration.GetValue<string>("API_Key");
        var httpClient = new HttpClient();
        httpClient.Timeout = new TimeSpan(0, 0, 30);
        var requestString = "http://api.weatherstack.com/" +
$"current?access_key={apiKey}&query={placeName}";
        if (!string.IsNullOrEmpty(unit))
            requestString += $"&unit={unit}";
        if (!string.IsNullOrEmpty(language))
            requestString += $"&language={language}";
```

```
var response = await httpClient.GetAsync(requestString);
        var result = await response.Content.ReadAsStringAsync();
        var serializer = new DataContractJsonSerializer(typeof(CurrentWeather));
        var memoryStream = new MemoryStream(Encoding.UTF8.GetBytes(result));
        var currentWeather = (CurrentWeather) serializer.ReadObject(memoryStream)!;
       return currentWeather;
    }
}
```

### 1.1.10 CurrentWeatherControllerTests.cs

This is file CurrentWeatherControllerTests.cs.

#### **Body Source**

```
using Microsoft. Extensions. Configuration;
using Moq;
using WeatherStackNetCore.Controllers;
using WeatherStackNetCore.Models;
namespace WeatherStackNetCore.Tests.Controllers;
/// <summary>
/// Test class for the controller
/// Which is used to get current weather info from the
/// WeatherStack API
/// </summary
public class CurrentWeatherControllerTests
    /// <summary>
    /// Current Weather Info Model
    /// </summary>
    private CurrentWeatherViewModel? _model;
    /// <summary
    /// Config file for controller constructor
    /// </summary>
    private IConfiguration? _config;
    /// <summary>
    /// Mock class instance
    /// </summary>
   private Mock? _mock;
    /// <summary>
    /// Controller instance
    /// </summary>
    private CurrentWeatherController? _controller;
    /// <summary>
    /// This method is used to create setup
    /// Assign values which are necessary /// Before using test methods
    /// </summary>
    [SetUp]
    public void Setup()
        _model = new CurrentWeatherViewModel
            PlaceName = "Konya"
        _config = new ConfigurationManager();
        _controller = new CurrentWeatherController(_config);
    }
    /// <summary>
    /// Test method which is used for
```

1.1 Files Weather Stack Net Core CurrentWeatherViewModel.cs

```
/// Index action with model
    /// </summary>
    [Test]
    public void IndexWithModel_Test()
        var result = _controller?.IndexWithModel(_model);
        Assert.That(result, Is.Not.Null);
    /// <summary>
    /// Test method which is used for
    /// Get Current Weather Info action with Model
    /// </summary>
    [Test]
    public void GetCurrentWeatherWithModel_Test()
        var result = _controller?.GetCurrentWeatherWithModel(_model);
        Assert.That(result, Is.Not.Null);
    }
    /// <summary>
/// Test method which is used for
    /// Index action with JQuery
    /// </summary>
    [Test]
   public void IndexWithJQuery_Test()
        var result = _controller?.IndexWithJQuery();
        Assert.That(result, Is.Not.Null);
    /// <summary>
    /// Test method which is used for
    /// Get Current Weather Info action with JQuery
    /// </summary>
    [Test]
    public void GetCurrentWeatherWithJQuery_Test()
        var result = _controller?.GetCurrentWeather(_model.PlaceName, _model.Unit,
_model.Language);
       Assert.AreSame(result.Exception, null);
}
```

### 1.1.11 CurrentWeatherViewModel.cs

This is file CurrentWeatherViewModel.cs.

### **Body Source**

```
using System.ComponentModel.DataAnnotations;
using WeatherStackNetCore.Utils;

namespace WeatherStackNetCore.Models;

/// <summary>
/// This model class is used to create the search page
/// And stores the result info too
/// </summary>
public class CurrentWeatherViewModel
{
    #region Fields

    [StringLength(60, MinimumLength = 3)]
    [Required(ErrorMessage = "Please Enter A Place Name")]
    [Display(Name = "Place Name:")]
```

```
public string? PlaceName { get; set; }
    [Display(Name = "Unit:")] public string? Unit { get; init; }
    [Display(Name = "Language:")] public string? Language { get; init; }
    /// This is used to fill dropdownlist for units
    /// </summary>
    public List<ItemList> UnitList { get; init; }
    /// <summary>
    /// This is used to fill dropdownlist for languages
    /// </summary>
    public List<ItemList> LanguageList { get; init; }
    /// <summary>
    /// API Call result
    /// </summary>
    public CurrentWeather? CurrentWeather { get; init; }
    #endregion
    public CurrentWeatherViewModel()
         UnitList = new List<ItemList>
             new() {Text = "Metric", Value = "m"},
new() {Text = "Scientific", Value = "s"},
             new() {Text = "Fahrenheit", Value = "f"}
         };
        LanguageList = new List<ItemList>
             new() {Text = "English", Value = "en"},
             new() {Text = "Turkish", Value = "tr"},
new() {Text = "German", Value = "de"}
         };
    }
}
```

### 1.1.12 **Error.cs**

This is file Error.cs.

### **Body Source**

```
?namespace WeatherStackNetCore.Utils;

/// <summary>
/// Error Class
/// </summary>
public class Error
{
   public string type { get; set; }
   public string info { get; set; }
   public int code { get; set; }
}
```

### 1.1.13 ErrorResult.cs

This is file ErrorResult.cs.

### **Body Source**

```
?namespace WeatherStackNetCore.Utils;

/// <summary>
/// Error Class
/// </summary>
public class ErrorResult
{
    public string success { get; set; }
    public Error error { get; set; }
}
```

### 1.1.14 ErrorViewModel.cs

This is file ErrorViewModel.cs.

#### **Body Source**

```
namespace WeatherStackNetCore.Models;
public class ErrorViewModel
{
    public string? RequestId { get; init; }

    public bool ShowRequestId => !string.IsNullOrEmpty(RequestId);
}
```

## 1.1.15 GeneralRequest.cs

This is file GeneralRequest.cs.

#### **Body Source**

```
?namespace WeatherStackNetCore.Utils;

/// <summary>
/// API Request Class
/// </summary>
public class GeneralRequest
{
   public string type { get; set; }
   public string query { get; set; }
   public string language { get; set; }
   public string unit { get; set; }
}
```

# 1.1.16 HomeController.cs

This is file HomeController.cs.

### **Body Source**

```
?using System.Diagnostics;
using Microsoft.AspNetCore.Mvc;
using WeatherStackNetCore.Models;
namespace WeatherStackNetCore.Controllers;
```

```
public class HomeController : Controller
{
    private readonly ILogger<HomeController> _logger;

    public HomeController(ILogger<HomeController> logger)
    {
        _logger = logger;
    }

    public IActionResult Index()
    {
        return View();
    }

    public IActionResult Privacy()
    {
        return View();
    }

    [ResponseCache(Duration = 0, Location = ResponseCacheLocation.None, NoStore = true)]
    public IActionResult Error()
    {
        return View(new ErrorViewModel {RequestId = Activity.Current?.Id ??

    HttpContext.TraceIdentifier});
    }
}
```

# 1.1.17 ItemList.cs

This is file ItemList.cs.

#### **Body Source**

```
?namespace WeatherStackNetCore.Utils;
public class ItemList
{
    public string Text { get; set; }
    public string Value { get; set; }
}
```

### 1.1.18 Location.cs

This is file Location.cs.

### **Body Source**

```
?namespace WeatherStackNetCore.Utils;

/// <summary>
/// Query Place Detailed Location Info Class
/// </summary>
public class Location
{
   public string name { get; set; }
   public string region { get; set; }
   public string lat { get; set; }
   public string lon { get; set; }
   public string lon { get; set; }
   public string lon { get; set; }
   public string localtime { get; set; }
   public decimal localtime_epoch { get; set; }
```

```
public string utc_offset { get; set; }
}
```

# 1.1.19 LocationRequest.cs

This is file LocationRequest.cs.

#### **Body Source**

```
?namespace WeatherStackNetCore.Utils;

/// <summary>
/// API Request Class
/// </summary>
public class LocationRequest
{
    public string query { get; set; }
    public int results { get; set; }
}
```

# 1.1.20 Program.cs

This is file Program.cs.

#### **Body Source**

```
var builder = WebApplication.CreateBuilder(args);
// Add services to the container.
builder.Services.AddControllersWithViews();
var app = builder.Build();
// Configure the HTTP request pipeline.
if (!app.Environment.IsDevelopment())
    app.UseExceptionHandler("/Home/Error");
    // The default HSTS value is 30 days. You may want to change this for production
scenarios, see https://aka.ms/aspnetcore-hsts.
   app.UseHsts();
app.UseHttpsRedirection();
app.UseStaticFiles();
app.UseRouting();
app.UseAuthorization();
app.MapControllerRoute(
    "default",
    "{controller=Home}/{action=Index}/{id?}");
app.Run();
```

# 1.1.21 Usings.cs

This is file Usings.cs.

### **Body Source**

global using NUnit.Framework;

### 1.1.22 ValidateModelAttribute.cs

This is file ValidateModelAttribute.cs.

### **Body Source**

# 1.1.23 WeatherStackNetCore.csproj

This is file WeatherStackNetCore.csproj.

### 1.1.24 WeatherStackNetCore.sln

This is file WeatherStackNetCore.sln.

# 1.1.25 WeatherStackNetCore.Tests.csproj

This is file WeatherStackNetCore.Tests.csproj.

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