

**Step 1:take a one web form with name CountryInfo.aspx and design ur web page as shown in below.**



And also add some paragraphs for information display purpose as code is follows:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeBehind="CountryInfo.aspx.cs"
Inherits="api_init.CountryInfo" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<title></title>
```

```
</head>
```

```
<body>
```

```
<form id="form1" runat="server">
```

```
<h1>Country Information</h1>
```

```
<div>
```

```
<label for="countrySelect">Select a country:</label>
```

```

<asp:DropDownList ID="countrySelect" runat="server" AutoPostBack="true"
OnSelectedIndexChanged="CountrySelected"></asp:DropDownList>

<div id="countryInfo" runat="server" style="display:none;">
    <h2>Country Name: <span id="countryName" runat="server"></span></h2>
    <p><strong>Capital:</strong> <span id="capital" runat="server"></span></p>
    <p><strong>Population:</strong> <span id="population" runat="server"></span></p>
    <p><strong>Languages:</strong> <span id="languages" runat="server"></span></p>
    <p><strong>Currencies:</strong> <span id="currencies" runat="server"></span></p>
</div>
</div>
</form>
</body>
</html>

```

## Step 2: Now double click on drop down list and write following code in that

```

using System;
using System.Net.Http;
using System.Web.UI;
using System.Web.UI.WebControls;
using Newtonsoft.Json.Linq;

namespace api_init
{
    public partial class CountryInfo : Page
    {
        protected void Page_Load(object sender, EventArgs e)
        {
            if (!IsPostBack)
            {
                // Load countries into the dropdown on page load
                LoadCountries();
            }
        }

        protected void LoadCountries()
        {
            using (var httpClient = new HttpClient())
            {
                var response = httpClient.GetStringAsync("https://restcountries.com/v2/all").Result;
                var countries = JArray.Parse(response);

                countrySelect.DataSource = countries;
                countrySelect.DataTextField = "name";
                countrySelect.DataValueField = "alpha3Code";
            }
        }
    }
}

```

```

        countrySelect.DataBind();
    }
}

protected void CountrySelected(object sender, EventArgs e)
{
    var selectedCountryCode = countrySelect.SelectedValue;
    var apiUrl = $"https://restcountries.com/v2/alpha/{selectedCountryCode}";

    using (var httpClient = new HttpClient())
    {
        var response = httpClient.GetStringAsync(apiUrl).Result;
        var countryData = JObject.Parse(response);

        countryName.InnerText = countryData["name"].Value<string>();
        capital.InnerText = countryData["capital"].Value<string>();
        population.InnerText = countryData["population"].Value<string>();
        languages.InnerText = string.Join(", ", countryData["languages"].Values<string>());
        currencies.InnerText = string.Join(", ", countryData["currencies"].Values<string>());
    }

    countryInfo.Style["display"] = "block";
}
}
}

```

**Step 3: now you have to display data on changing selected country so you need to write ajax for that you can make a separate JavaScript file or add it into script tag the code is as follow**

```
<script>
```

```

document.addEventListener("DOMContentLoaded", function () {
    var countrySelect = document.getElementById("<%= countrySelect.ClientID %>");
    var countryInfo = document.getElementById("<%= countryInfo.ClientID %>");
    var countryName = document.getElementById("<%= countryName.ClientID %>");
    var capital = document.getElementById("<%= capital.ClientID %>");
    var population = document.getElementById("<%= population.ClientID %>");
    var languages = document.getElementById("<%= languages.ClientID %>");
    var currencies = document.getElementById("<%= currencies.ClientID %>");

    countrySelect.addEventListener("change", function () {
        var selectedCountryCode = countrySelect.value;

```

```

if (selectedCountryCode) {
    var apiUrl = "https://restcountries.com/v2/alpha/" + selectedCountryCode;

    // Make an AJAX request to the REST Countries API
    var xhr = new XMLHttpRequest();
    xhr.open("GET", apiUrl, true);

    xhr.onload = function () {
        if (xhr.status === 200) {
            var data = JSON.parse(xhr.responseText);
            countryInfo.style.display = "block";
            countryName.innerText = data.name;
            capital.innerText = data.capital;
            population.innerText = data.population.toLocaleString();
            languages.innerText = data.languages.map(function (lang) {
                return lang.name;
            }).join(", ");
            currencies.innerText = data.currencies.map(function (currency) {
                return currency.name + " (" + currency.symbol + ")";
            }).join(", ");
        }
    };

    xhr.send();
}
});
});

</script>

```

#### Step 4: Run the project

##### Note:

**For running this project Internet connection is compulsory**

**If you having error in your program on**

**using System.Net.Http;**

**using Newtonsoft.Json.Linq;**

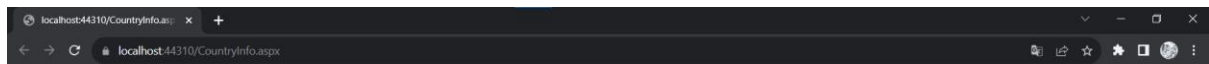
**these lines then right click on project name it is at right side of the window**

**then select Manage NuGet Packages**

**go to browse and search Newtonsoft.Json and install it**

**also search System.Net.Http and install it**

OUTPUT : windows looks like below:



## Country Information

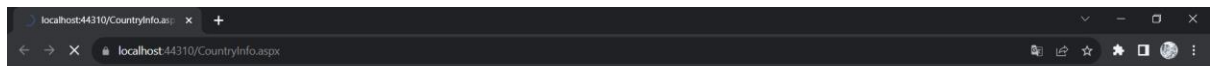
Select a country: Afghanistan



## Country Information

Select a country: Afghanistan

- Afghanistan
- Aland Islands
- Albania
- Algeria
- American Samoa
- Andorra
- Angola
- Anguilla
- Antarctica
- Antigua and Barbuda
- Argentina
- Armenia
- Aruba
- Australia**
- Austria
- Azerbaijan
- Bahamas
- Bahrain
- Bangladesh
- Barbados



## Country Information

Select a country:

**Country Name:** Australia

**Capital:** Canberra

**Population:** 25,687,041

**Languages:** English

**Currencies:** Australian dollar (\$)

