

Task 1

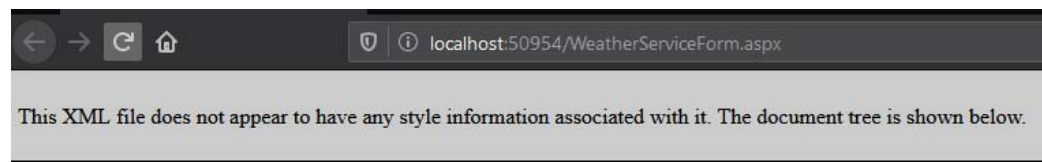
Browser (aspx)

Located in WeatherService Folder

Assign the country, number of days and insert your key in WeatherServiceForm.aspx.cs from <https://www.worldweatheronline.com/developer/>.

```
//Assign values for query
var country = "china";
var numOfDays = "5";
var key = "*****";
```

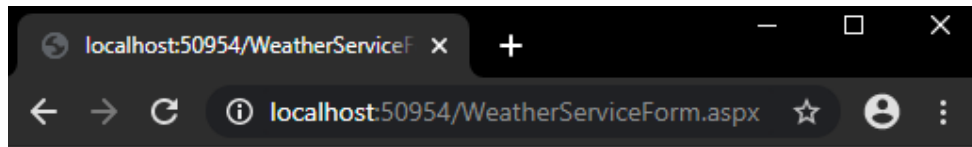
Debug run the application and you will see the following page on load.



This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<data>
  <request>
    <type>City</type>
    <query>Beijing, China</query>
  </request>
  <current_condition>
    <observation_time>05:03 AM</observation_time>
    <temp_C>6</temp_C>
    <temp_F>43</temp_F>
    <weatherCode>113</weatherCode>
    <weatherIconUrl>
      http://cdn.worldweatheronline.net/images/wsymbols01_png_64/wsymbol_0001_sunny.png
    </weatherIconUrl>
    <weatherDesc>Sunny</weatherDesc>
    <windspeedMiles>4</windspeedMiles>
    <windspeedKmph>7</windspeedKmph>
    <winddirDegree>320</winddirDegree>
    <winddir16Point>NW</winddir16Point>
    <precipMM>0.0</precipMM>
    <precipInches>0.0</precipInches>
    <humidity>26</humidity>
    <visibility>10</visibility>
    <visibilityMiles>6</visibilityMiles>
    <pressure>1029</pressure>
    <pressureInches>31</pressureInches>
    <cloudcover>0</cloudcover>
    <FeelsLikeC>5</FeelsLikeC>
    <FeelsLikeF>40</FeelsLikeF>
    <uvIndex>3</uvIndex>
  </current_condition>
```

In the case of error, the web service will ask u to verify your API key as well as your condition inputs.



Error accessing web service

Reconnecting in 5s...



Please check the following:

- Network connection
- API key : XXXXXXXXXXXXXXXXXXXXXXXXXX
- Country selected : china
- Number of days selected : 5

Waiting for localhost...

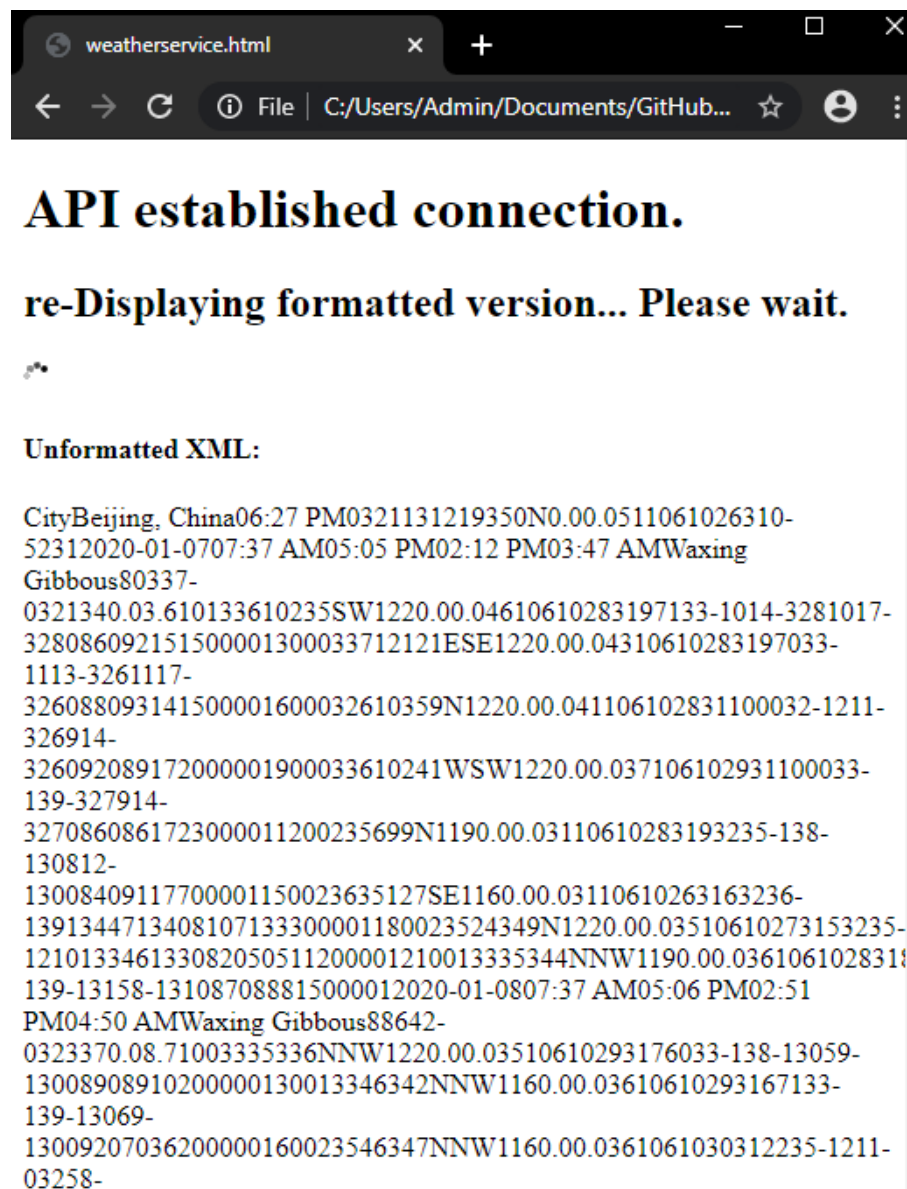
Browser (jQuery)

Located in WeatherService_js Folder

Assign the country, number of days and insert your key in script.js from <https://www.worldweatheronline.com/developer/>.

```
var country = "china";  
var numOfDays = "5";  
var key = "XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";
```

Debug run the application and you will see the following page on API successful connection.



The screenshot shows a web browser window with the address bar displaying "weatherservice.html". The page content includes a large heading "API established connection." followed by the text "re-Displaying formatted version... Please wait." and a loading spinner. Below this, the text "Unformatted XML:" is displayed, followed by a large block of unformatted XML data. The XML data is a single line of text containing various weather-related information, including city names, coordinates, and timestamps.

API established connection.

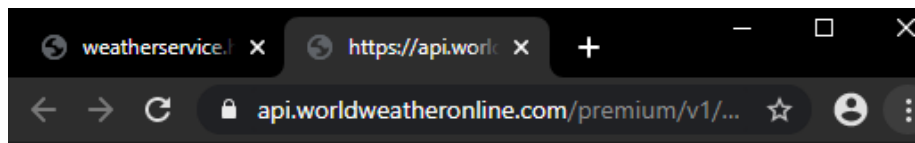
re-Displaying formatted version... Please wait.

•••

Unformatted XML:

CityBeijing, China06:27 PM0321131219350N0.00.0511061026310-52312020-01-0707:37 AM05:05 PM02:12 PM03:47 AMWaxing Gibbous80337-0321340.03.610133610235SW1220.00.04610610283197133-1014-3281017-328086092151500001300033712121ESE1220.00.04310610283197033-1113-3261117-326088093141500001600032610359N1220.00.041106102831100032-1211-326914-326092089172000001900033610241WSW1220.00.037106102931100033-139-327914-3270860861723000011200235699N1190.00.03110610283193235-138-130812-13008409117700001150023635127SE1160.00.03110610263163236-1391344713408107133300001180023524349N1220.00.03510610273153235-121013346133082050511200001210013335344NNW1190.00.036106102831139-13158-131087088815000012020-01-0807:37 AM05:06 PM02:51 PM04:50 AMWaxing Gibbous88642-0323370.08.71003335336NNW1220.00.03510610293176033-138-13059-13008908910200000130013346342NNW1160.00.03610610293167133-139-13069-13009207036200000160023546347NNW1160.00.0361061030312235-1211-03258-

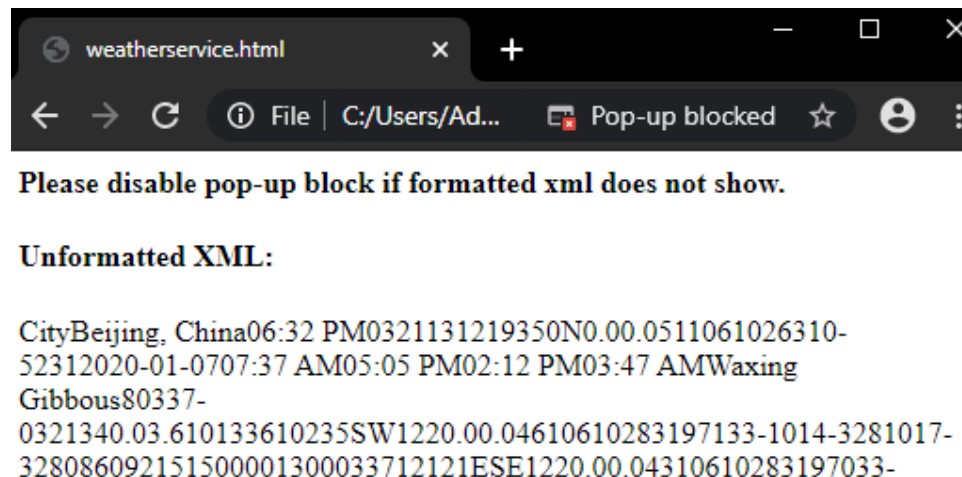
A formatted XML will be pop up in a new window. (Direct XML file from world weather)



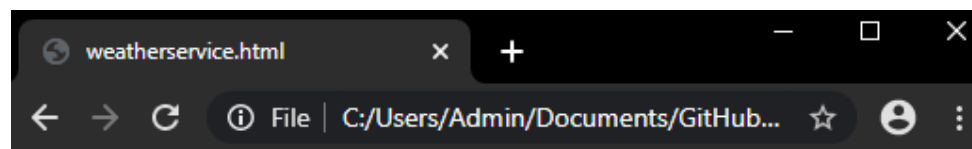
This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<?xml version="1.0" encoding="UTF-8" standalone="yes"?>
<data>
  <request>
    <type>City</type>
    <query>Beijing, China</query>
  </request>
  <current_condition>
    <observation_time>06:29 PM</observation_time>
    <temp_C>0</temp_C>
    <temp_F>32</temp_F>
    <weatherCode>113</weatherCode>
    <weatherIconUrl>
      <![CDATA[
        http://cdn.worldweatheronline.net/images/wsymbols01_png_64/ws
      ]]>
    </weatherIconUrl>
    <weatherDesc>
      <![CDATA[ Clear ]]>
    </weatherDesc>
    <windspeedMiles>12</windspeedMiles>
    <windspeedKmph>19</windspeedKmph>
    <winddirDegree>350</winddirDegree>
    <winddir16Point>N</winddir16Point>
    <precipMM>0.0</precipMM>
    <precipInches>0.0</precipInches>
    <humidity>51</humidity>
    <visibility>10</visibility>
    <visibilityMiles>6</visibilityMiles>
    <pressure>1026</pressure>
    <pressureInches>31</pressureInches>
    <cloudcover>0</cloudcover>
    <FeelsLikeC>-5</FeelsLikeC>
    <FeelsLikeF>23</FeelsLikeF>
    <uvIndex>0</uvIndex>
  </current_condition>
</data>
```

In the case of formatted XML not popping up, enable or allow pop-up window.



In the case of error, client will reconnect and prompt to check common user input mistakes.



API connection failed.

Reconnecting in 5s...

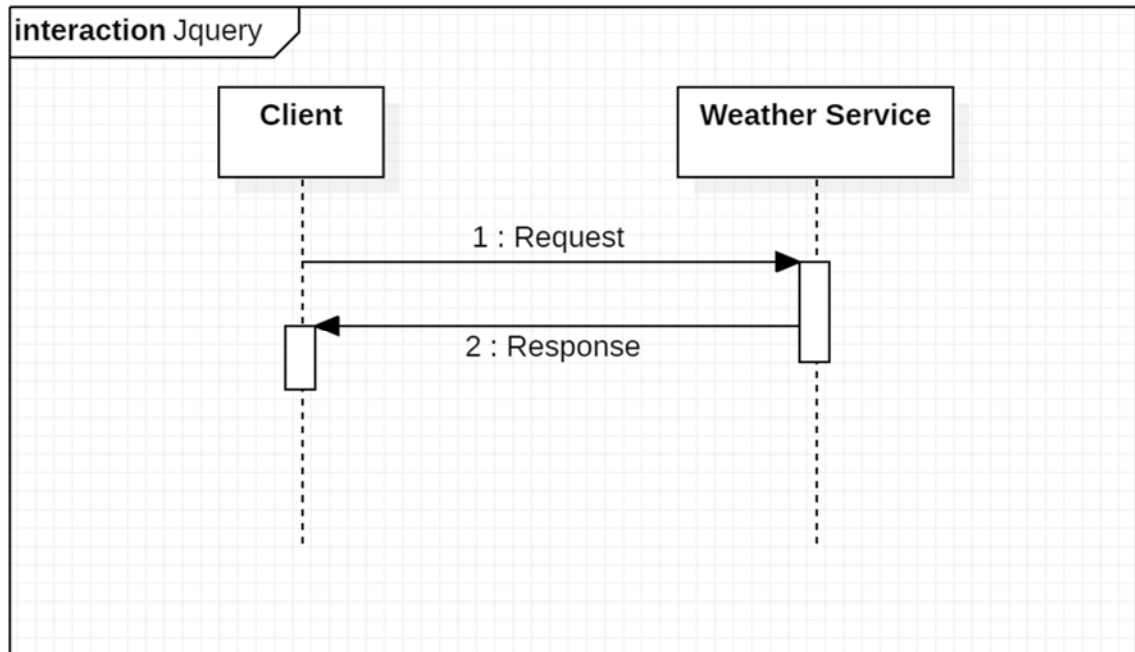


Please check the following:

- Network connection
- API key
- Country selected
- Number of days selected

Sequence Diagrams

Jquery:



aspx:

