

## WeatherAPI

This weatherAPI project is a concept of an app that receives weather data from an API that handles data and shows it on a web page. The purpose with this project is to show how to use an API following the MVC procedure, in which I have used Servlet, Beans & other java classes in a program called Eclipse. In this project a user can see weather info using City name and Country code.

*For this app I have used JSP, BEANS, JAVA, SERVLET, API & CSS.*

I started the project by creating an *Index.jsp* file, in which I made a form with a method get and I redirected it to *Weather Servlet* where I created a cookie object, made a request for city name and country code. After that I created a bean page called *Weather Bean* in which I made some strings with constructor and getters and setters to use them later on in other Java classes.

After that I made a Java class called *GetWeather* where I built the API call URL by adding city and country into a URL, then I set the URL that would be sent and Created a HTTP connection to send the get request over. Then I made a buffer reader to read the response from the API and a string to save the full response to use later and a loop for the whole response. After printing the response I called a method to convert the xml document. Then I created a Node list that gets everything in and under the cloud, wind and date & time tags and made a loop for them. In the end of this page I called a method to make xml doc out of a string and created a document builder and parsed the content to document objects.

In *showWeather.jsp* I included my index.jsp file so user is able to search for weather as many time as user wants and i added my weatherBean class in it and with help of my getters i got the result of weather. And finally i made cookies for the project. In cookies i created an object and added cookies for the response, i also made a loop and if statement to get cookie name and value.