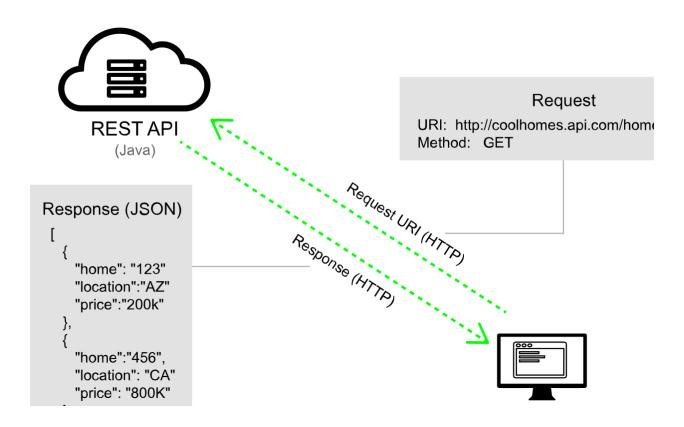
REST API call to Get Weather and Wind Updates from A Weather API Service

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Overview of REST

- REST APIs are different from its predecessor SOAP.
- An API is an interface between two systems, how they communicate and interact with each other.
- Web services use HTTP protocol for communicating request and responses.
- They are language agnostic and work on any platform for communication.
- When a system makes a request, a response is generated.



Source: https://idratherbewriting.com/learnapidoc/docapis what is a rest api.html

REST API call to get weather conditions of a place with a zip code.

GET:

"https://api.openweathermap.org/data/2.5/weather?zip=75098&units=imperial&appid=2ac115d3bf152bd58d446dcf3b07ea55",

Input param- API key and the zip code of the place.

Response- JSON object

```
<html>
<meta charset="UTF-8">
 <head>
    <title>Sample page</title>
    <script src="https://ajax.qoogleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
     <script>
     var settings = {
 "async": true,
 "crossDomain": true,
 "method": "GET"
$.ajax(settings).done(function (response) {
 console.log(response);
 console.log("wind spped: " + response.wind.speed);
 var content = response.wind.speed;
 $("#windSpeed").append(content);
  var currentWeather = response.weather[0].main;
 $("#currentWeather").append(currentWeather);
   </script>
 </head>
<body>
 <h1>Sample page</h2>
 <div id="windSpeed">Wind speed: </div>
 <div id="currentWeather">currentWeather: </div>
</body>
-</html>
```

REST API call to get wind conditions of a place with a zip code and country code.

GET:

"https://api.openweathermap.org/data/2.5/weather?zip=75098,us&appid=fd4698c940c6d1da602a70ac 34f0b147&units=imperial",

Input param- API key and the zip code of the place and the country code.

Response- JSON object

```
<head>
                   <script src="https://code.jquery.com/jquery-2.1.1.min.js"></script>
<link rel="stylesheet" href='https://maxcdn.bootstrapcdn.com/bootstrap/3.3.4/css/bootstrap.min.csg' rel='stylesheet' type='text/css'>
                    <title>OpenWeatherMap Integration</title>
                             #wind_direction, #wind_speed, #wind_speed_unit, #wind_degree_unit, #weather_conditions, #main_temp_unit, #main_temp {color: red; font-weight: bold;}
                   body {margin:20px;}
</style>
           </head>
          <body>
                            function checkWind() {
                                    var settings = {
   "async": true,
   "crossDomain": true,
                                        "dataType": "json",
"url": "https://api.openweathermap.org/data/2.5/weather?zip=75098,us&appid=fd4698c940c6d1da602a70ac34f0b147&units=imperial",
                                   $.ajax(settings)
                                   .done(function (response) {
                                          console.log(response);
                             $("#wind speed").append (response.wind.speed);
                           $("#wind_speed").append (response.wind.speed);
$("#wind_irection").append (response.wind.deg);
$("#main_temp").append (response.main.temp);
$("#weather_conditions").append (response.weather[0].main);
$("#wind_speed_unit").append (" MFH");
$("#wind_degree_unit").append (" degrees");
$("#wind_temp_unit").append (" F");
});
                  </script>
<button type="button" onclick="checkWind()" class="btn btn-danger weatherbutton">Check wind conditions</button>
                    <h2>Wind conditions for Wylie</h2>
                  <arraymin conductions for wystex/nic>
<arraymin conductions for wystex/nic arraymin conductions for which greed unit "></arraymin conductions for wystex/nic arraymin conduction for wystex/nic arraymin conduc
           </body>
</html>
```

When you open the browser and run the HTML file, the below page is loaded.

Check wind conditions

Wind conditions for Wylie

Temperature:
Wind speed:
Wind direction:
Current conditions:

Fig: Before button click of Check wind conditions

Check wind conditions

Wind conditions for Wylie

Temperature: 48.76 F
Wind speed: 5.82 MPH
Wind direction: 170 degrees
Current conditions: Clouds

Fig: After click of the button