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I, **Ulvi Bajarani** _____, certify that the work I am uploading represents my own efforts, and is not copied from anyone else or any other resource (such as Internet). *Furthermore, I certify that I have not let anyone copy from my work.*

CSCI 3342 Assignment #3

Learning to Interface with APIs using JavaScript

Guide

Learning to Interface with APIs using JavaScript



Guide

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Learning to Interface with APIs using JavaScript

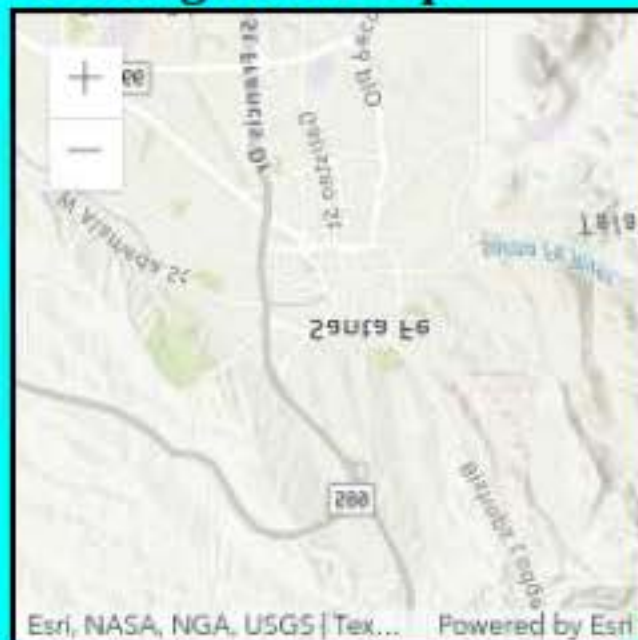


Edinburg-Harlingen-Brownsville

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CSCI 3342 Assignment #3

Learning to Interface with APIs using JavaScript



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CSCI 3342 Assignment #3

Learning to Interface with APIs using JavaScript

Brownsville Texas Go -97.484424 25.930307



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CSCI 3342 Assignment #3

Learning to Interface with APIs using JavaScript

Santa Fe Texas Go -105.944183 35.691544



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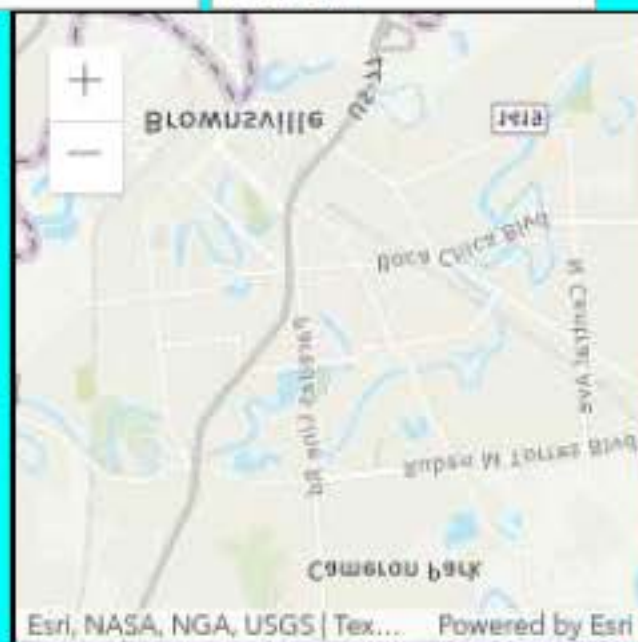
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Learning to Interface with APIs using JavaScript

Brownsville Texas Go -97.484424 25.930307





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CSCI 3342 Assignment #3

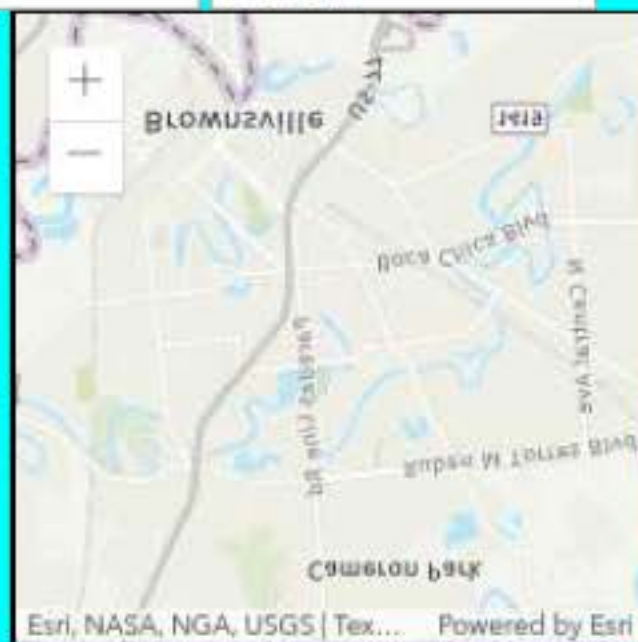
Learning to Interface with APIs using JavaScript

Brownsville Texas

Go

-97.484424

25.930307



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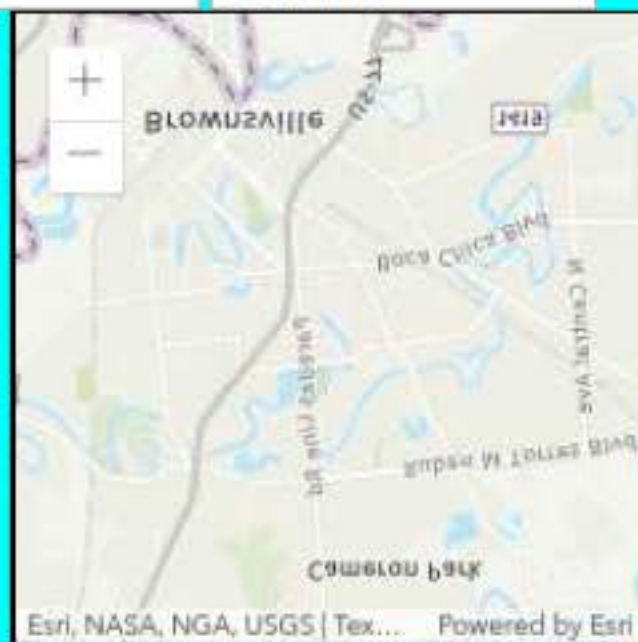
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CSCI 3342 Assignment #3

Learning to Interface with APIs using JavaScript

Santa Fe New Mexico Go -105.937799 35.6869752



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The final code of index.html

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset="utf-8">
    <meta charset="utf-8"> <meta name="viewport" content="initial-scale=1, maximum-scale=1,
user-scalable=no">
    <link rel="stylesheet" href="https://js.arcgis.com/4.11/esri/themes/light/main.css">
    <script src="https://js.arcgis.com/4.11/"></script>
    <script async defer src="https://maps.googleapis.com/maps/api/js?key=AIzaSyDzr-
ZoZzYK9HrBMhgxdqD5sPCIp796Zk" type="text/javascript"> </script>
    <title> CSCI 3342 Assignment #3 </title>
    <link rel="stylesheet" type="text/css" href="e3b.css" />
  </head>
  <body>
    <div id="canvas">
      <div id="guide">
        <h3>Guide</h3>
        <hr>
      </div>
      <div id="header">
        <h1>CSCI 3342 Assignment #3</h1>
      </div>
      <div id="body">
        <h2 id="head1">Learning to Interface with APIs using JavaScript</h2>
        <input id="address" type="text" value="Brownsville Texas"/>
        <button id="go">Go</button>
        <input id="lng" type="text" value="-97.484424"/>
        <input id="lat" type="text" value="25.930307"/>
        <div id="viewMapDiv"> </div>
      </div>
      <div id="footer">
        <h6>Edinburg-Harlingen-Brownsville</h6>
      </div>
    </div>
    <script src="script3.js"></script>
    <script>initMap();</script>
  </body>
</html>
```

The code of e3b.css

```
/* This is the CSS file for Assignment/Tutorial #3 */
```

```
#canvas {  
    background-color: grey;  
    width: 800px;  
    height: 640px;  
}
```

```
#guide {  
    background-color: blue;  
    color: yellow;  
    width: 160px;  
    height: 300px;  
    margin-left: 10px;  
    margin-top: 10px;  
    float: left;  
    padding: 10px;  
}
```

```
#header {  
    background-color: yellow;  
    color: blue;  
    width: 590px;  
    margin-left: 200px;  
    margin-top: 10px;  
    text-align: center;  
}
```

```
#body {  
    background-color: cyan;  
    color: black;  
    width: 590px;  
    height: 560px;  
    margin-left: 200px;  
    margin-top: 10px;  
}
```

```
#footer {  
    background-color: black;  
    color: white;  
    margin-left: 10px;  
    margin-right: 10px;  
    margin-top: 10px;  
    text-align: center;  
}
```

```
h1, h2, h3, h4, h5, h6 {
```

```
        margin: 0px;
    }

    #viewMapDiv {
        border: solid 2px black;
        background-color: white;
        width: 280px;
        height: 280px;
        margin-left: 300px;
    }
```


The code of script3.js

```
function initMap() {
  let lng = document.getElementById("lng").value;
  let lat = document.getElementById("lat").value;
  require(["esri/Map", "esri/views/MapView"], function(Map, MapView) {
    let map = new Map({
      basemap: "topo-vector"
    });
    let view = new MapView({
      container: "viewMapDiv",
      map: map,
      center: [lng, lat], // longitude, latitude
      zoom: 12
    });
  });
}

function showLngLat(result) {
  document.getElementById('lng').value = result.geometry.location.lng();
  document.getElementById('lat').value = result.geometry.location.lat();
}

function getLngLat(callback, address) {
  geocoder = new google.maps.Geocoder();
  if (geocoder) {
    geocoder.geocode({
      'address': address
    }, function(results, status) {
      if (status === google.maps.GeocoderStatus.OK) {
        callback(results[0]);
      }
    });
  }
}

//when "Go" button is clicked, call a function to get Lng/Lat info from Google API using geocoder()
document.getElementById("go").addEventListener("click", function() {
  getLngLat(showLngLat, document.getElementById('address').value), initMap() /* Note: The
initMap() should be added to refresh the map. It is done by the second click to "Go". Otherwise, only
the coordinates are got. */
});
```