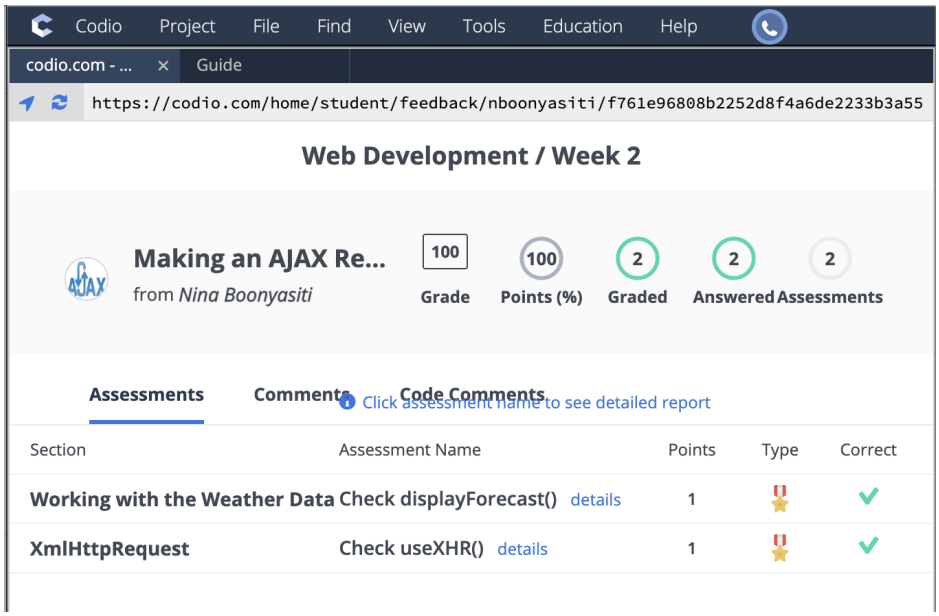
Nina Boonyasiti - 2846101
EECS 692

Assignment: [Tutorial] Make an AJAX Request
Due Date: June 17th by 11:59pm
Points: 10
Description: Let's write a simple web app that will display the most salient forecast details for us. You should have two files open in the first panel - an *index.html* file that sets up a simple web page, and a blank *forecast.js* that will (once we're done), display the forecast on the index page.

Overall Summary:



Student Submission:

displayForecast takes in data as a parameter, parses the data and then creates an "img" and "p" element. These elements are appended to display, which is identified as "forecast". The useXHR() function is used as an AJAX Request to the HTTP to request for the most up-to-date information for the weather app. In the window.addEventListener, we specify that these updates are to be done by the hour.

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index.html forecast.js

```
function displayForecast(data) {
  var current = data.properties.periods[0];

  var display = document.getElementById("forecast");
  display.textContent = "";

  var icon = document.createElement("img");
  icon.src = current.icon;

  var desc = document.createElement("p");
  desc.textContent = current.detailedForecast;

  display.appendChild(icon);
  display.appendChild(desc);
}

function useXHR() {
  const xhr = new XMLHttpRequest();
  xhr.addEventListener('load', () => {
    displayForecast(JSON.parse(xhr.responseText));
  });

  const url = "https://api.weather.gov/gridpoints/TOP/48,54/forecast";
  xhr.open("GET", url);
  xhr.send();
}
```

index.html forecast.js

```
function useXHR() {
  const xhr = new XMLHttpRequest();
  xhr.addEventListener('load', () => {
    displayForecast(JSON.parse(xhr.responseText));
  });

  const url = "https://api.weather.gov/gridpoints/TOP/48,54/forecast";
  xhr.open("GET", url);
  xhr.send();
}

// useXHR();

// Or we can use the following for multiple script files
// window.addEventListener('load', function() {
//   useXHR();
// });

// Option 3: invoke useXHR() and update it at one hour intervals!
window.addEventListener('load', function() {
  useXHR();
  const oneHour = 60 * 60 * 1000;
  setInterval(useXHR, oneHour);
})
```

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Result:

https://annuallocal-optionshake.codio.io/weather-demo/index.html

Weather

Mostly sunny, with a high near 92. Southeast wind 10 to 15 mph.

Auto-Grader Response:

3. Working with the Weather Data

Now we're ready to fetch our data and display the forecast!

Check displayForecast()

Check It!

LAST RUN on 6/16/2022, 4:10:06 PM

✓ `displayForecast()` *adds an* `<img>` *element with* `src` *attribute set to* `data.icon` *to* `<div id="forecast">`

✓ `displayForecast()` *adds a* `<p>` *element with* `textContent` *attribute set to* `data.detailedForecast` *to* `<div id="forecast">`

4. XmlHttpRequest