JAVASCRIPT FETCH

LAB 1

JavaScript's fetch() method is a powerful tool for working with web APIs. Here's a tutorial that demonstrates how to use the fetch() method to access a public API and retrieve data. We will use the JSONPlaceholder API (https://jsonplaceholder.typicode.com/) as an example.

1) Create an HTML file called "fetch.html" and add the following code:

This creates a simple HTML page with a button that says "Get Data!" and a div element that will be used to display the retrieved data. We also include a link to a JavaScript file called "fetch.js" which will contain our JavaScript code.

2) Create a file called "fetch.js" in the same directory as "fetch.html" and add the following code:

```
const getDataButton = document.getElementById("get-data-button");
const dataContainer = document.getElementById("data-container");
getDataButton.addEventListener("click", () => {
    fetch('https://jsonplaceholder.typicode.com/posts')
    .then(response => response.json())
    .then(data => {
        data.forEach( post => {
            let postData = document.createElement('div');
            postData.innerHTML = `<h2>${post.title}</h2> ${post.body}`;
        dataContainer.appendChild(postData);
        });
    });
```

SUBMITTING EXERCISES

To earn certification all exercises must be submitted and accepted.

1) When you've completed all of the HTML exercises, please zip them into a single file and submit to our Dropbox at http://bit.ly/CWDP2324.

2) Next, fill out the certification completion form at https://forms. gle/5EiUGCM6dGdIF2Py6.

Remember, that all of your exercises for each module should be included in a separate zip file.

GETTING HELP

We always want to ensure that your questions are answered. There are a number of ways to get in touch.

 We operate a lively Discord server. Join us at https://discord. gg/tgxX2fCrv5 and you can ask your question on Discord. Mark and our team of instructional assistants monitor this Discord and answer questions ASAP.

2) This certification program is offered on several platforms. Most platforms have a Q & A section where you can post questions. We monitor these and respond as quickly as we can.

3) You may use our question hotline email at questions@ dollardesignschool.com.

Remember to always to include which section your question is from and send any code you're working on!



JAVASCRIPT FETCH

```
.catch(err => {
        console.log(err);
    });
});
```

This code uses the getElementById() method to select the getDataButton and dataContainer elements. Then, it uses the addEventListener() method and arrow function to attach a "click" event listener to the button. When the button is clicked, the anonymous function passed to addEventListener() is executed, which will call the fetch() method to retrieve data from the JSONPlaceholder API. The fetch() method returns a promise, so we use the .then() method to handle the response and retrieve the json data. It then loops through the posts and creates new div element for each post which is then added to dataContainer.

3) Open "fetch.html" in a web browser.

4) Click the button "Get Data" and you should see the list of posts along with their titles and bodies being displayed on the page

This example demonstrates a basic use of fetch() method, you can also pass additional options such as headers, and also use different HTTP methods like POST, PUT, DELETE using fetch(). you can also use await instead of .then() to make the code more readable. Also JSONPlaceholder API has many more endpoints like /comments, /albums etc you can use as per your requirement.

LAB 2

Using the OpenWeatherMap API (https://openweathermap.org/api), create a JavaScript program that retrieves the current weather data for a given city and displays the information on a web page. You will need to obtain an API key from the site and read the API documentation for this to work correctly.

- Use the fetch() method to retrieve the data from the API.
- The information should be displayed in a format of your choice, with the temperature, humidity and wind speed being displayed on the page
- You should have a button that user can enter a city name and on button click it makes the fetch call and displays the weather information

Deliverable:

SUBMITTING EXERCISES

To earn certification all exercises must be submitted and accepted.

1) When you've completed all of the HTML exercises, please zip them into a single file and submit to our Dropbox at http://bit.ly/CWDP2324.

2) Next, fill out the certification completion form at https://forms. gle/5EiUGCM6dGdIF2Py6.

Remember, that all of your exercises for each module should be included in a separate zip file.

GETTING HELP

We always want to ensure that your questions are answered. There are a number of ways to get in touch.

 We operate a lively Discord server. Join us at https://discord. gg/tgxX2fCrv5 and you can ask your question on Discord. Mark and our team of instructional assistants monitor this Discord and answer questions ASAP.

2) This certification program is offered on several platforms. Most platforms have a Q & A section where you can post questions. We monitor these and respond as quickly as we can.

3) You may use our question hotline email at questions@ dollardesignschool.com.

Remember to always to include which section your question is from and send any code you're working on!



JAVASCRIPT FETCH

- A single HTML file called weather.html
- A single JavaScript file called weather.js

SUBMITTING EXERCISES

To earn certification all exercises must be submitted and accepted.

1) When you've completed all of the HTML exercises, please zip them into a single file and submit to our Dropbox at http://bit.ly/CWDP2324.

2) Next, fill out the certification completion form at https://forms. gle/5EiUGCM6dGdIF2Py6.

Remember, that all of your exercises for each module should be included in a separate zip file.

GETTING HELP

We always want to ensure that your questions are answered. There are a number of ways to get in touch.

1) We operate a lively Discord server. Join us at https://discord. gg/tgxX2fCrv5 and you can ask your question on Discord. Mark and our team of instructional assistants monitor this Discord and answer questions ASAP.

2) This certification program is offered on several platforms. Most platforms have a Q & A section where you can post questions. We monitor these and respond as quickly as we can.

3) You may use our question hotline email at questions@ dollardesignschool.com.

Remember to always to include which section your question is from and send any code you're working on!

