CODE EXERCISE

CREATING HTML ELEMENTS DYNAMICALLY

LAB₁

1) Create an element: Use the document.createElement() method to create a new HTML element. You can then set its properties, such as its id, class, and innerHTML, and append it to an existing element using the appendChild() method.

```
const newDiv = document.createElement("div");
newDiv.innerHTML = "Hello World!";
document.body.appendChild(newDiv);
```

2) Modify an existing element: Use the getElementById() method to grab a reference to an existing element, and then modify its properties as needed.

```
const existingDiv = document.getElementById("existing-div");
existingDiv.innerHTML = "New Text";
```

3) Remove an element: Use the removeChild() method on the parent element to remove an existing element

```
const existingDiv = document.getElementById("existing-div");
document.body.removeChild(existingDiv);
```

4) Add an event listener: Add an event listener to the element using the addEventListener() method. This can be used to execute a function when an event such as a click or a hover occurs.

```
const newDiv = document.createElement("div");
newDiv.innerHTML = "Hello World!";
newDiv.addEventListener("click", () => alert("You clicked the div"));
document.body.appendChild(newDiv);
```

LAB 2

Create a simple web application that allows users to add, edit, and delete todo items from a list. The application should have the following features:

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. qle/5EiUGCM6dGd1F2Py6.

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

GFTTING HFIP

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
- 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!



CODE EXERCISE

CREATING HTML ELEMENTS DYNAMICALLY

- 1) A form for adding new todo items, with fields for the task name and a completion status.
- 2) The ability to view, edit, and delete existing todo items using dynamic HTML manipulation.
- 3) Use of LocalStorage or IndexedDB to save the todo items, so that the items are not lost when the user closes the browser or refreshes the page.
- 4) Use of JSON format to store and retrieve the todo items.
- 5) A filter feature that will allow the user to filter the list by completed or active items.
- 6) Use of CSS to style the list items and form.
- 7) Proper error handling mechanism

Technical requirements:

- Use of JavaScript and the DOM to create and manipulate the elements of the application.
- Use of JSON to store and retrieve the todo items data.
- Use of LocalStorage or IndexedDB to save the todo items data.
- Use of dynamic HTML manipulation to add, edit, and delete list items.
- Use of CSS and JavaScript to style the elements and add interactivity
- · Use of Event listeners for handling user interactions and form submissions

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GETTING HELP

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