

Insert Into DOM Activity

Learning Outcome Addressed

9. Use JavaScript to dynamically display data on a web page

Follow the instructions in NextTech to complete the activity.

Working With The DOM In JavaScript

Creating a TO-DO List

JavaScript allows you to manipulate the **DOM** to add, remove, or update any element on a web page.

In this activity, the browser displays a list of TO-DO items.

A user can add items to this list by typing in the input box and clicking on the **Add** button. Every time the button is clicked, the function `addItem()` is called.

Your task is to implement the function `addItem()` that adds a new item to the list of TODOs.

Check inside the `insertDOM.js` for stepwise instructions and hints to help you along the way.

Hint: You can use DOM methods to identify the existing elements on a page and create or append a new one.

Hint: You can reference the MDN documentation on appending elements to the DOM for some extra guidance: <https://developer.mozilla.org/en-US/docs/Web/API/Node/appendChild>.

Note: Alternately, you can use a conditional `if()` statement inside the `addItem()` function to check if the user didn't type anything in the input box and display an alert indicating that they need to type in a value.

Task

Create a function called `addItem` which takes a user's input and appends it to the browser's DOM, displaying it as a to-do list item.

```
<!DOCTYPE html>
<html>

<head>
  <title>DOM Manipulation- Insert</title>
  <link rel="stylesheet" type="text/css" href="./style.css" />
</head>
```

```

<body>

  <div id="myDIV" class="header">
    <h2 style="margin:5px">My To Do List</h2>
    <input type="text" id="myInput" placeholder="Type a TODO list...">
    <span onclick="addItem()" id="addBtn">Add</span>
  </div>

  <ul id="myTODOs">
    <li>Write more JavaScript</li>
    <li class="checked">Make coffee</li>
    <li>Read JavaScript documentation</li>
    <li>Build awesome apps</li>
  </ul>

</body>
<script src="./insertDOM.js"></script>

</html>

```

```

function addItem() {
  // TODO: add 'item' to the list of TODOs

  //Step 1: identify the value of the myInput element.

  //Step 2: Create a text node containing that value

  //Step 3: Create a new li element and append the text node to it

  //Step 4: Append the li element to the existing myTODOs element.
}

//don't change this line
if (typeof module !== 'undefined') {
  module.exports = addItem;
}

```