Unit 4: DOM – Mock Assessment #3

Assigned 11/17/22

Due 11/21/22

Completed 11/21/22

**LMS:** <https://lms.grandcircus.co/mod/assign/view.php?id=22764>

**GitHub:** <https://github.com/gc-submissions/practice-assessment-3-clintmsmith>

**Study Guide Video:** <https://www.youtube.com/watch?v=b_MfT3ioYaY>

**Task:** Create a webpage with HTML, CSS, and JavaScript. It will have a form that allows the user to add shapes to the page.

**Build Specifications:**

1. Create a form with three inputs
   1. A text input for "Text". It has a starting value of "Hello" when the page loads.
   2. A number input for "Size". It has a starting value of 100 when the page loads.
   3. A checkbox for "Make it a circle". It starts unchecked when the page loads.
   4. Also include a submit button with the text: "Add it!".  
      Graphical user interface, application

      Description automatically generated
2. Whenever the form is submitted, add a <div> to the page.
   1. The new div will always have class "shape".
   2. The new div will display the text from the "Text" input.
   3. The new div will have width, height, and line-height CSS properties set to the "Size" input value with "px" unit.
   4. The new div will have an additional CSS class of "circle" if the "Make it a circle" checkbox is checked.
3. Add styling to the CSS file…
   1. For the "shape" class, add a border, display: inline-block, text-align: center, and 10px right margin.
   2. For the "circle" class, use border radius to make the shape appear as a circle.

The next page includes a screenshot of what the page might look like after submitting the form with several different values.

Graphical user interface, application

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**HTML**

<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta http-equiv="X-UA-Compatible" content="IE=edge">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>Assessment #3 Mock</title>

    <link rel="stylesheet" href="./style.css">

</head>

<body>

    <form id="form">

        <div class="text-input">

            <label for="textInput">Text</label>

            <input type="text" name="textInput" placeholder="Hello">

        </div>

        <div class="size-input">

            <label for="sizeInput">Size</label>

            <input type="number" name="sizeInput" value="100">

        </div>

        <div class="check-input">

            <input type="checkbox" name="checkInput">

            <label for="checkInput">Make it a circle</label>

        </div>

        <div class="submit-button">

            <button type="submit">Add it!</button>

        </div>

    </form>

    <div id="placeholder"></div>

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

</body>

</html>

**CSS**

\* {

    box-sizing: border-box;

}

label {

    display: inline-block;

    padding: 10px 10px 0px 0px;

    margin-bottom: 5px;

    font-size: 20px;

}

input {

    font-size: 15px;

}

button {

    font-size: 20px;

    height: 40px;

    width: 125px;

    border-radius: 7px;

    border: 1px solid black;

    margin-top: 7px;

    cursor: pointer;

}

#placeholder {

    margin-top: 10px;

}

.shape {

    border: 3px solid lightblue;

    display: inline-block;

    justify-content: center;

    text-align: center;

    margin-right: 10px;

    font-size: 20px;

}

.circle {

    border-radius: 50%;

}

.highlighted {

    background-color: rebeccapurple;

    color: #fff;

    border: 7px solid black;

    font-weight: 600;

}

**JavaScript**

const form = document.getElementById('form');

const placeholder = document.getElementById('placeholder');

const shapes = document.querySelectorAll('shape');

form.addEventListener("submit", submitForm);

function submitForm (event) {

    event.preventDefault();

    let data = new FormData(form);

    let text = data.get('textInput');

    let size = data.get('sizeInput');

    let isChecked = data.get('checkInput');

    let createDiv = document.createElement('div');

    createDiv.classList.add('shape');

    createDiv.innerText = text;

    createDiv.style.height = size + 'px';

    createDiv.style.width = size + 'px';

    createDiv.style.lineHeight = size + 'px';

    if(isChecked) {

        createDiv.classList.add('circle');

    }

    placeholder.appendChild(createDiv);

    form.reset();

}

placeholder.addEventListener('click', function highlight(event){

    event.target.classList.add('highlighted');

});

\*Currently the Event Listener on “placeholder” allows you to click any element inside and it will add the Class “highlighted”, but if you click anywhere in the DIV the entire DIV is also “highlighted”. Need to get more specific so I can target just the individual element that was clicked.