**The Modal Window**

How to make a text box appear when we click on a button.

Graphical user interface, text, application, chat or text message

Description automatically generated

Graphical user interface, text, application, chat or text message

Description automatically generatedOn the webpage there are three buttons:

Here is the html for the buttons:

<body>

<button class="show-modal">Show modal 1</button>

<button class="show-modal">Show modal 2</button>

<button class="show-modal">Show modal 3</button>

Notice that the class corresponds to the following CSS:

.show-modal {

*font-size*: 2rem;

*font-weight*: 600;

*padding*: 1.75rem 3.5rem;

*margin*: 5rem 2rem;

*border*: none;

*background-color*: #fff;

*color*: #444;

*border-radius*: 10rem;

*cursor*: pointer;

}

What this means, is that we can see the modal button with this formatting on the web page.

When we click on the button we want it to display some information.

Specifically this information:

<div class="modal hidden">

<button class="close-modal">&times;</button>

<h1>I'm a modal window 😍</h1>

<p>

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</p>

It is important to note that there are two classes for this button. ‘modal’ and ‘hidden’.

Here is the CSS:

.hidden {

*display*: none;

}

.modal {

*position*: absolute;

*top*: 50%;

*left*: 50%;

*transform*: translate(-50%, -50%);

*width*: 70%;

*background-color*: white;

*padding*: 6rem;

*border-radius*: 5px;

*box-shadow*: 0 3rem 5rem rgba(0, 0, 0, 0.3);

*z-index*: 10;

}

Because the modal window has the class of hidden, we can clearly see in the CSS file that the display is set to ‘none’. This means we will not see the modal window unless this class changes. We can use JavaScript to change these properties so that the modal window appears when we click a button.

Efficient Code

Because we will be using the same code repeatedly, it would be prudent to save some commands to variables;

*const* modal = document.querySelector(".modal");

*const* overlay = document.querySelector(".overlay");

*const* btnCloseModal = document.querySelector(".close-modal");

*const* btnsOpenModal = document.querySelectorAll(".show-modal");

console.log(btnsOpenModal);

After this we can begin to add some properties that can show and hide the modal window.

For Loop

for (*let* i = 0; i < btnsOpenModal.length; i++) {

btnsOpenModal[i].addEventListener("click", *function* () {

console.log("Button clicked");

modal.classList.remove("hidden");

overlay.classList.remove("hidden");

});

}

We can use the for loop to iterate through ‘btnsOpenModal’. Graphical user interface, text, application, email

Description automatically generated When logging to the console, this is what was displayed earlier. The for loop is simply iterating through these buttons looking for changes with .addEventListener property.

The event listener used here is ‘click’. After a click has been detected we execute a nameless function. Notice that we use the ‘modal.classList’ with the ‘remove’ operator. In this instance we have removed the ‘hidden’ class property.

After the hidden class property has been removed, the information within the box will become visible.

In this example we have simply removed a class. But we could have also edited the ‘hidden’ class;

modal.getElementsByClassName.display = 'block'

Which would change this:

.hidden {

*display*: none;

}

To this:

.hidden {

*display*: block;

}

This later example is not efficient. There is only one property here. What if there were 10 properties? We would have to write code that edited them all. It is far simpler to remove the class all together. That way we do not have to change multiple properties.

To be able to close the modal window on click;

});

btnCloseModal.addEventListener("click", *function* () {

modal.classList.add("hidden");

overlay.classList.add("hidden");

});

}

Currently our modal window will only close if we click on the ‘X’ button. To change this we could add the following code;

btnsOpenModal[i].addEventListener("click", *function* () {

modal.classList.remove("hidden");

overlay.classList.remove("hidden");

});

overlay.addEventListener("click", *function* () {

modal.classList.add("hidden");

overlay.classList.add("hidden");

});

}

This time we have added a function of the overlay class. When a click is detected on the overlay, it will set it to hidden.

There is a problem, we have used the same code repeatedly. Would it be possible to simply this code block and write it more simply?

The easiest way to do this would be to create a variable ‘closeModal’.

*const* closeModal = *function* () {

modal.classList.add("hidden");

overlay.classList.add("hidden");

};

btnCloseModal.addEventListener("click", closeModal);

overlay.addEventListener("click", closeModal);

};

This way we do not have to use the same code over and over again.

After refactoring:

//Open and Close Modal

*const* closeModal = *function* () {

modal.classList.add("hidden");

overlay.classList.add("hidden");

};

*const* openModal = *function* () {

modal.classList.remove("hidden");

overlay.classList.remove("hidden");

};

//For Loop to iterate through buttons

for (*let* i = 0; i < btnsOpenModal.length; i++) {

btnsOpenModal[i].addEventListener("click", openModal);

btnCloseModal.addEventListener("click", closeModal);

overlay.addEventListener("click", closeModal);

}