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Overview

Bootstrap provides us with many different ways to display information to the user.
There are times where we need to make sure the user has read the information provided.
For this, we have **Bootstrap Modal**, a popup format that, when triggered, will overlay your website and await being closed or confirmed by the user.

Tutorial

Here, we have a base Web page, which includes all the imports we'll need, as well as a simple navigation bar for reference:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8">
        <title>Bootstrap Tutorial</title>
         <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta1/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"
crossorigin="anonymous">
    </head>

    <body>
        <nav class="navbar navbar-light bg-light">
            <a href="link/to/page" class="navbar-brand">My Company</a>
            <button class="navbar-toggler" data-bs-toggle="collapse" data-bs-
target="#hasToMatch">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="hasToMatch">
                <ul class="navbar-nav">
                    <li class="nav-item">
                        <a href="link/to/login" class="nav-link">Login</a>
                    </li>
                    <li class="nav-item">
                        <a href="link/to/home" class="nav-link">Home</a>
                    </li>
                    <li class="nav-item">
                        <a href="link/to/memes" class="nav-link">Memes</a>
                    </li>
                </ul>
            </div>
        </nav>


        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta1/dist/js/bootstrap.bundle.min.js"
        integrity="sha384-
ygbV9kiqUc6oa4msXn9868pTtWMgiQaeYH7/t7LECLbyPA2x65Kgf80OJFdroafW"
        crossorigin="anonymous"></script>
    </body>
</html>
```

Because a modal will overlay the whole screen, Bootstrap needs to be given access to several layers of `<div>` so that the modal can be formatted correctly:

```html
<!--<head> and <nav>-->
<div class="modal">
    <div class="modal-dialog">
        <div class="modal-content">

        </div>
    </div>
</div>
<!--<script> imports-->
```

This structure of enclosing `<div>` elements is required for Bootstrap to correctly format the modal.

We can now start adding the content:

```
<!--<head> and <nav>-->
<div class="modal">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">

            </div>
            <div class="modal-body">

            </div>
            <div class="modal-footer">

            </div>
        </div>
    </div>
</div>
<!--<script> imports-->
```

As you can see, we can have a header, body and a footer.
Only the `modal-body` is required for a modal to function.
The `modal-header` and `modal-footer` are optional and provide us with further formatting options.

Lets expand out `modal-header`.

```
<!--<head> and <nav>-->
<div class="modal">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h2 class="modal-title">First Modal</h2>
            </div>
            <div class="modal-body">
                <p>This is the modal body</p>
            </div>
            <div class="modal-footer">
                <p>This is the modal footer</p>
            </div>
        </div>
    </div>
</div>
<!--<script> imports-->
```

As you can see, we can place standard HTML formatting elements like `<h2>` in our modal.
It also gets a dedicated class, `modal-title`, so that Bootstrap can format it for us.

Next, let's add in a button to close the modal:

```
<!--<head> and <nav>-->
<div class="modal">
    <div class="modal-dialog">
        <div class="modal-content">
            <div class="modal-header">
                <h2 class="modal-title">First Modal</h2>
                <button type="button" class="close" data-bs-dismiss="modal">
                    <span>&times;</span> <!--&times; will display a large X-->
                </button>
            </div>
            <div class="modal-body">
                <p>This is the modal body</p>
            </div>
            <div class="modal-footer">
                <p>This is the modal footer</p>
            </div>
        </div>
    </div>
</div>
<!--<script> imports-->
```

By giving the button the class name `close`, we tell Bootstrap the behaviour we wish the button to have.

Next we give it a value of `data-bs-dismiss` and tell it the class we wish it to close.

In this case, we want to close the full enclosing `<div class="modal">`.

That's it! Our modal is now complete, but you'll notice that if you load the page, the modal is still hidden.

Don't be alarmed. Modals remain hidden until triggered by some kind of event.

We can write our own JavaScript to show our modal, or we could make use of some of Bootstrap's resources:

```html
<!DOCTYPE html>
<html lang="en">
    <head>
        <meta charset="UTF-8">
        <title>Bootstrap Tutorial</title>
        <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta1/dist/css/bootstrap.min.css" rel="stylesheet"
        integrity="sha384-
giJF6kkoqNQ00vy+HMDP7azOuL0xtbfIcaT9wjKHr8RbDVddVHyTfAAsrekwKmP1"
crossorigin="anonymous">
    </head>

    <body>
        <nav class="navbar navbar-light bg-light">
            <a href="link/to/page" class="navbar-brand">My Company</a>
            <button class="navbar-toggler" data-bs-toggle="collapse" data-bs-
target="#hasToMatch">
                <span class="navbar-toggler-icon"></span>
            </button>
            <div class="collapse navbar-collapse" id="hasToMatch">
                <ul class="navbar-nav">
                    <li class="nav-item">
                        <a href="link/to/login" class="nav-link">Login</a>
                    </li>
                    <li class="nav-item">
                        <a href="link/to/home" class="nav-link">Home</a>
                    </li>
                    <li class="nav-item">
                        <a href="link/to/memes" class="nav-link">Memes</a>
                    </li>
                </ul>
            </div>
        </nav>

        <!--Button to show modal-->
        <button type="button" class="btn btn-primary" data-bs-toggle="modal"
data-bs-target="#needToMatch">
            Show Modal
        </button>

        <div class="modal" id="needToMatch">
            <div class="modal-dialog">
                <div class="modal-content">
                    <div class="modal-header">
                        <h2 class="modal-title">First Modal</h2>
                        <button type="button" class="close" data-bs-
dismiss="modal">
                            <span>&times;</span>
                        </button>
                    </div>
                    <div class="modal-body">
                        <p>This is the modal body</p>
                    </div>
                    <div class="modal-footer">
                        <p>This is the modal footer</p>
                    </div>
                </div>
            </div>
        </div>

        <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.0-
beta1/dist/js/bootstrap.bundle.min.js"
        integrity="sha384-
ygbV9kiqUc6oa4msXn9868pTtWMgiQaeYH7/t7LECLbyPA2x65Kgf80OJFdroafW"
        crossorigin="anonymous"></script>
    </body>
</html>
```

Exercises