COURSEWARE

Bootstrap Forms & Inputs

Contents

- [Overview](#)
- [Tutorial](#)
- [Exercises](#)

Overview

When designing websites, there are uncountable reasons we would need to collect input from our users.
The way buttons animate, and how intuitive forms are to work with, greatly impacts the user experience.
Bootstrap provides us with several tools to beautify and format our forms and inputs.

This module uses Bootstrap Grid, you can find the module on grid [here](#)

Tutorial

So, here's the base we'll be working with. It has all the JavaScript and Bootstrap imports, and a dropdown navbar for some kind of reference point.

```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">QA Academy</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>
```

First, let's set up a really basic HTML form with no Bootstrap:

```html
<!--<head> and <nav>-->
<form action="">
    <label for="username">Username</label>
    <input type="text" name="username" id="username">

    <label for="password">Password</label>
    <input type="text" name="password" id="password">

    <label for="signup">Do you want to be bombarded by meaningless emails?
</label>
    <select name="signup" id="signup">
        <option value=true>Yes</option>
        <option value=false>No</option>
    </select>
</form>
<!--Script imports-->
```

Now, we just need to add the Bootstrap provided classes:

```
<!--<head> and <nav>-->
<form action="">
    <label for="username">Username</label>
    <input type="text" name="username" id="username" class="form-control">

    <label for="password">Password</label>
    <input type="text" name="password" id="password" class="form-control">

    <label for="signup">Do you want to be bombarded by meaningless emails?
</label>
    <select name="signup" id="signup" class="form-control">
        <option value=true>Yes</option>
        <option value=false>No</option>
    </select>
</form>
<!--Script imports-->
```

As you can see, for `<select>` fields and for `<input type="text">` we simply assign it the class name `form-control`.
Bootstrap will now pick this up and format it for us.

So, how about checkboxes?
These are a little more complex as there are a few more elements Bootstrap needs to be aware of in order to format it.

Here's a standard HTML checkbox:

```
<input type="checkbox" id="remember-me">
<label for="remember-me">Remember Me</label>
```

In order for Bootstrap to correctly pick this up, both the `<label>` and the `<input>` get a dedicated Bootstrap-provided class name.
Then, we need to group the `<input>` and `<label>` together in an enclosing `<div>`:

```
<div class="form-check">
    <input type="checkbox" id="remember-me" class="form-check-input">
    <label for="remember-me" class="form-check-label">Remember Me</label>
</div>
```

We can also group items together in a `form-group`.
This will create a small amount of separation between each group, to aid you in the design and flow of your forms.

Like so:

```
<!--<head> and <nav>-->
<form action="">
    <div class="form-group">
        <label for="username">Username</label>
        <input type="text" name="username" id="username" class="form-control">

        <label for="password">Password</label>
        <input type="text" name="password" id="password" class="form-control">
    </div>
    <div class="form-group">
        <label for="signup">Do you want to be bombarded by meaningless emails?
</label>
        <select name="signup" id="signup" class="form-control">
            <option value=true>Yes</option>
            <option value=false>No</option>
        </select>
    </div>
</form>
<!--Script imports-->
```

Now we've explored how Bootstrap interacts with the elements of a form, let's utilise Grid to position boxes where we want them, and add in some more fields:

```html
<!--<head> and <nav>-->
<form action="">
        <div class="row">
            <div class="col-1">
                <label for="firstname">First Name</label>
                <input type="text" name="username" id="username" class="form-
control">
            </div>
            <div class="col-1">
                <label for="lastname">Last Name</label>
                <input type="text" name="lastname" id="lastname" class="form-
control">
            </div>
        </div>
        <div class="row">
            <div class="col-2">
                <label for="password">Password</label>
                <input type="text" name="password" id="password" class="form-
control">
            </div>
        </div>
        <div class="row">
            <div class="col-2">
                <label for="signup">Do you want to be bombarded by meaningless
emails?</label>
                <select name="signup" id="signup" class="form-control">
                    <option value=true>Yes</option>
                    <option value=false>No</option>
                </select>
            </div>
    </div>
</form>
<!--Script imports-->
```

Using Grid we can have `first name` and `last name` fields on the same line.

Exercises

Research how we can use JavaScript and Bootstrap to validate and reformat a form accordingly.
(e.g. if a field isn't filled in, it turns red)