Hands-on Exercise to Create web forms

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Exercise 1: Basic Form Creation

1. **Create a new HTML file and link a CSS file:**
   - Create a file named `form-styles.css`.
   - Link it in your HTML file (`contact.html`):

```
<link rel="stylesheet" href="form-styles.css">
```

2. **Add a basic form structure:**
   - Add the following HTML to your `contact.html`:

```
<div class="container">
  <h2>Contact Us</h2>
  <form>
    <div class="form-group">
      <label for="name">Name</label>
     <input type="text" id="name" name="name" class="form-control" required>
    </div>
    <div class="form-group">
      <label for="email">Email</label>
          <input  type="email"  id="email"  name="email"  class="form-control"
required>
    </div>
    <div class="form-group">
      <label for="message">Message</label>
        <textarea id="message" name="message" class="form-control" rows="4"
required></textarea>
    </div>
```

```
    <button type="submit" class="btn btn-primary">Submit</button>
  </form>
</div>
```

3. **Style the form using CSS:**
   - Add the following CSS to `form-styles.css`:

```
.container {
  max-width: 600px;
  margin: 0 auto;
  padding: 20px;
  background-color: #f9f9f9;
  border-radius: 8px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

h2 {
  text-align: center;
  margin-bottom: 20px;
}

.form-group {
  margin-bottom: 15px;
}

.form-control {
  width: 100%;
  padding: 10px;
  border: 1px solid #ccc;
  border-radius: 4px;
}

.btn-primary {
  display: block;
  width: 100%;
  padding: 10px;
  background-color: #007bff;
  border: none;
  border-radius: 4px;
  color: white;
  font-size: 16px;
  cursor: pointer;
}
```

```
.btn-primary:hover {
  background-color: #0056b3;
}
```

Exercise 2: Adding Validation

1. **Add HTML5 validation attributes:**
   - Ensure that the `required` attribute is added to all input fields in the form.
   - Add the `type="email"` attribute to the email input field to ensure proper email format.
2. **Test the form validation:**
   - Open the `contact.html` file in a web browser.
   - Try submitting the form without filling in the fields to see the validation messages.

Exercise 3: Enhancing the Form with Bootstrap

1. **Include Bootstrap in your HTML file:**
   - Add the following code to the `<head>` section of your `contact.html`:

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-T3B4xZMEozC77q1x6Y84n6b22c343677193212549602046729452 65f67946759" crossorigin="anonymous">
```

2. **Update the form to use Bootstrap classes:**
   - Modify the form HTML to use Bootstrap classes:

```
<div class="container mt-5">
  <h2>Contact Us</h2>
  <form>
    <div class="mb-3">
      <label for="name" class="form-label">Name</label>
     <input type="text" id="name" name="name" class="form-control" required>
    </div>
    <div class="mb-3">
      <label for="email" class="form-label">Email</label>
         <input type="email" id="email" name="email" class="form-control" required>
    </div>
    <div class="mb-3">
      <label for="message" class="form-label">Message</label>
       <textarea id="message" name="message" class="form-control" rows="4" required></textarea>
```

```
    </div>
    <button type="submit" class="btn btn-primary">Submit</button>
  </form>
</div>
```

3. **Test the form with Bootstrap styling:**
   - Open the `contact.html` file in a web browser to see the enhanced form with Bootstrap styling.

Exercise 4: Adding Custom Styles

1. **Create a custom CSS file:**
   - Create a file named `custom-styles.css`.
   - Link it in your `contact.html` file after the Bootstrap CSS link:

```
<link rel="stylesheet" href="custom-styles.css">
```

2. **Add custom styles to override Bootstrap defaults:**
   - Add the following CSS to `custom-styles.css`:

```
.container {
  background-color: #fff;
  border: 1px solid #ddd;
  border-radius: 8px;
  padding: 20px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

h2 {
  color: #333;
}

.btn-primary {
  background-color: #28a745;
  border-color: #28a745;
}

.btn-primary:hover {
  background-color: #218838;
  border-color: #1e7e34;
}
```

3. **Test the form with custom styles:**
   - Open the `contact.html` file in a web browser to see the form with custom styles applied.

0.1 Final Step

Update the HTML website from the previous exercises with the new styles and components you've created using CSS and Bootstrap.

0.2 Additional Tips:

- **Validate Your CSS:**
  - Use a CSS validator to ensure your code is correct and standards-compliant.
  - W3C CSS Validation Service
- **Test Your Pages:**
  - Test your web pages in different browsers to ensure compatibility.
- **Keep Practicing:**
  - Experiment with different styles and layouts to improve your CSS skills.