Day 2: HTML Forms and Input Elements

Knowledge:

- **Form Creation:**
  - Understand the structure of an HTML form.
  - Learn about the `<form>` element and its attributes.
  - Explore various form elements like text inputs, radio buttons, checkboxes, and buttons.
- **Input Types:**
  - Gain familiarity with different input types such as text, radio, and checkbox.
  - Understand how each input type is used in capturing different types of user input.
- **Form Validation:**
  - Explore basic form validation using HTML attributes.
  - Understand the `required` attribute for mandatory fields.

Task:

1. **Form Creation:**
   - Set up a new HTML file and create a professional-looking form to collect user information.
   - Use proper labels, input types, and structure within the `<form>` element.
2. **Input Types:**
   - Include various input types such as text input, radio buttons, and checkboxes in your form.
   - Experiment with different attributes for these input types.
3. **Form Validation:**
   - Implement basic form validation by using the `required` attribute for the text input field.
   - Explore other validation attributes and try incorporating them into your form.
4. **JavaScript Interaction:**
   - Intercept the form submission using JavaScript.
   - Instead of submitting the form to a server, display an alert with a customized message.

Example HTML Code:

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

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

    <title>HTML Forms and Input Elements</title>

</head>

<body>

    <h1>HTML Forms and Input Elements</h1>


    <p>Let's create a professional-looking form to collect user information:</p>


    <!-- Start of the Form -->

    <form onsubmit="showSubmittedMessage(); return false;">

        <!-- Text Input -->

        <label for="firstName">First Name:</label>

        <input type="text" id="firstName" name="firstName" placeholder="Enter your first name" required>


        <!-- Radio Buttons -->

        <p>Gender:</p>

        <label for="male">

            <input type="radio" id="male" name="gender" value="male"> Male

        </label>

        <label for="female">
```

```html
        <input type="radio" id="female" name="gender" value="female"> Female

    </label>


    <!-- Checkbox -->

    <p>Interests:</p>

    <label for="coding">

        <input type="checkbox" id="coding" name="interests" value="coding"> Coding

    </label>

    <label for="design">

        <input type="checkbox" id="design" name="interests" value="design"> Design

    </label>

    <label for="gaming">

        <input type="checkbox" id="gaming" name="interests" value="gaming"> Gaming

    </label>


    <!-- Submit Button -->

    <button type="submit">Submit</button>

</form>

<!-- End of the Form -->


<script>

    function showSubmittedMessage() {

        // Display an alert when the form is submitted

        alert('Form submitted successfully!');
```

```
    }

  </script>

</body>

</html>
```

Additional Challenge (Optional):

- Explore and implement more advanced form features such as `<select>` dropdowns and `<textarea>` for larger text inputs.
- Research and apply CSS styles to enhance the visual presentation of the form.