HTML5 Form Validations

CODE HIGHLIGHTS
PROGRAMMING & CODING

HTML5 Form Validations

HTML5 provides built-in form validations to improve user experience and reduce errors.

These validations can be applied using attributes on form elements.
Validation messages can be customized to suit the needs of the form.

Some common form validation attributes include:
- **required**: specifies that an input field must be filled out before submitting the form
- **maxlength**: specifies the maximum number of characters allowed in an input field
- **min and max**: specify the minimum and maximum values allowed for a number input
- **pattern**: specifies a regular expression pattern that the input value must match

HTML5 Validation Examples

```
1   Example 1: Required Input Field
2   <input type="text" name="username" required>
3
4   Example 2: Maxlength Input Field
5   <input type="text" name="message" maxlength="100">
6
7   Example 3: Range Input Field
8   <input type="number" name="age" min="18" max="100">
9
10  Example 4: Pattern Input Field
11  <input type="text" name="phone" pattern="[0-9]{3}-[0-9]{3}-[0-9]{4}">
```

Customizing Validation Messages

Validation messages can be customized using the HTML5 validation API.

The validation message for a form element can be set using the setCustomValidity() method.

This method can be called in JavaScript when an invalid input is detected.

```html
<input
  type="email"
  name="email"
  required
  oninvalid="setCustomValidity('Please enter a valid email address')"
  onchange="setCustomValidity('')"
/>
```