

CET-223

Web Technologies

Experiment # 03

Experiment Title

HTML Forms and Validation Techniques

Assessment of CLO(s): 03

Performed on	
--------------	--

Student Name:		
Roll No.	Group	
Semester	Session	

Total (Max)	Performance (03)	Viva (03)	File (04)	Total (10)
Marks Obtained				
Remarks (if any)				

Experiment evaluated by

Instructor's Name	Engr. Bilal Iqbal		
Date		Signature	

Objective:

- Learn how to create a form using HTML.
- Explore various form elements such as text fields, radio buttons, checkboxes, and dropdowns.
- Understand how to apply client-side validation using HTML5 attributes.
- Get familiar with different types of form input validation methods.

Creating a Simple HTML Form

- 1. Create an HTML document called simple_form.html.
- 2. Add a form with the following elements:
 - Name (text field)
 - Email (email field)
 - Password (password field)
 - Submit button

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Simple Form</title>
</head>
<body>
   <h1>Simple HTML Form</h1>
    <form>
        <label for="name">Name:</label>
        <input type="text" id="name" name="name" required><br><br></pr>
        <label for="email">Email:</label>
        <input type="email" id="email" name="email" required><br><br></pr>
        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required><br><br>
        <input type="submit" value="Submit">
    </form>
</body>
</html>
```

Using Radio Buttons, Checkboxes, and Dropdowns

- 1. Extend your simple_form.html by adding:
 - Gender (radio buttons for Male and Female)
 - Interests (checkboxes for various hobbies)
 - Country (a dropdown menu with at least 3 options)

```
<form>
   <label>Gender:</label><br>
   <input type="radio" id="male" name="gender" value="male" required>
   <label for="male">Male</label><br>
   <input type="radio" id="female" name="gender" value="female" required>
    <label for="female">Female</label><br><br>
   <label>Interests:</label><br>
   <input type="checkbox" id="coding" name="interests" value="coding">
   <label for="coding">Coding</label><br>
   <input type="checkbox" id="reading" name="interests" value="reading">
   <label for="reading">Reading</label><br><br>
   <label for="country">Country:</label>
   <select id="country" name="country" required>
        <option value="">Select your country</option>
        <option value="usa">USA</option>
        <option value="uk">UK</option>
        <option value="pakistan">Pakistan</option>
   </select><br><br><
   <input type="submit" value="Submit">
</form>
```

HTML5 Form Validation Attributes

- 1. Modify your form to include the following validation rules:
 - Name: At least 3 characters long.
 - Email: Must follow the email format.
 - Password: Must be at least 8 characters.
 - Add a field for phone number that only accepts digits.

```
<input type="submit" value="Submit">
</form>
```

Custom Validation Messages

1. Add custom error messages using the *oninvalid* and *setCustomValidity* methods.

```
<form>
    <label for="name">Name (at least 3 characters):</label>
    <input type="text" id="name" name="name" minlength="3" required</pre>
           oninvalid="this.setCustomValidity('Name must be at least 3
characters long')"
           oninput="this.setCustomValidity('')"><br><br>
    <label for="email">Email:</label>
    <input type="email" id="email" name="email" required</pre>
           oninvalid="this.setCustomValidity('Please enter a valid email
address')"
           oninput="this.setCustomValidity('')"><br><br>
    <label for="password">Password (at least 8 characters):</label>
    <input type="password" id="password" name="password" minlength="8" required</pre>
           oninvalid="this.setCustomValidity('Password must be at least 8
characters long')"
           oninput="this.setCustomValidity('')"><br><br>
    <input type="submit" value="Submit">
</form>
```

Validating Number and Date Fields

- 1. Add fields for age (number) and birthdate (date).
- 2. Ensure age is between 18 and 100, and the birthdate must be a past date.

Lab Task:

1.Create the HTML form given below. Attach the Output and code.



2. Create the student registration form given below. Attach the Output and code.

STUDENT REGISTRATION FORM

