

22CS450-WEB PROGRAMMING LAB-0

HTML TAGS AND DESCRIPTION

1.<!DOCTYPE html>

- Tells the browser that this document is HTML5

2.<html>

- Root element of the webpage.
- Everything is inside this tag.

3.<head>

- Contains meta information (not visible on the page).
- Includes title, style, charset.

4.<title>

- Sets the browser tab name.

5.<style>

- Used to write CSS.
- Controls design, colors, layout, fonts.
- Example:
 - Background-color : page background
 - padding : space inside elements
 - margin : space outside elements

6.<body>

- Contains visible content shown to users.

7.<div class="container">

- A box to group elements.
- Used for layout and styling.

8.<form>

- Collects user input.
- `onsubmit="return validateForm()"`: Calls JavaScript function when submit button is clicked.

9.<input>

- Takes user input.
- Types used:
 - `text` → username, email
 - `password` → hides password text

10.

- Displays error messages.
- Updated dynamically using JavaScript.

11.<button type="submit">

- Submits the form.
- Validation happens before submission.

12.<script>

- Contains JavaScript logic.
- Handles form validation.

SOURCE CODE :

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Form Validation</title>

  <style>

    body {

      font-family: Arial, sans-serif;

      background-color: #f2f2f2;

    }

    .container {

      width: 350px;

      margin: 100px auto;

      background-color: white;

      padding: 20px;

      border-radius: 8px;

    }

    h2 {

      text-align: center;

    }

    input {
```

```
    width: 100%;  
    padding: 8px;  
    margin-top: 5px;  
    margin-bottom: 10px;  
}  
  
.error {  
    color: red;  
    font-size: 14px;  
}  
  
button {  
    width: 100%;  
    padding: 10px;  
    background-color: #4CAF50;  
    color: white;  
    border: none;  
    cursor: pointer;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<div class="container">
```

```
    <h2>Registration Form</h2>
```

```
<form onsubmit="return validateForm()">

  <label>Username:</label>

  <input type="text" id="username">

  <span class="error" id="userError"></span>

  <label>Email:</label>

  <input type="text" id="email">

  <span class="error" id="emailError"></span>

  <label>Password:</label>

  <input type="password" id="password">

  <span class="error" id="passError"></span>

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

</form>
```

```
</div>
```

```
<script>
```

```
function validateForm() {

  let username = document.getElementById("username").value;

  let email = document.getElementById("email").value;

  let password = document.getElementById("password").value;

  let isValid = true;

  document.getElementById("userError").innerHTML = "";

  document.getElementById("emailError").innerHTML = "";

  document.getElementById("passError").innerHTML = "";
```

```
if (username === "") {  
    document.getElementById("userError").innerHTML = "Username is  
required";  
    isValid = false;  
}  
if (email === "") {  
    document.getElementById("emailError").innerHTML = "Email is required";  
    isValid = false;  
}  
if (password.length < 6) {  
    document.getElementById("passError").innerHTML = "Password must be  
at least 6 characters";  
    isValid = false;  
}  
return isValid;  
}  
</script>  
</body>  
</html>
```

OUTPUT :

Registration Form

Username:

Username is required Email:

Email is required Password:

Password must be at least 6 characters

Registration Form

Username:

Email:

Password: