

## 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.<span class="error">**

- 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

**Submit**

## Registration Form

Username:

Email:

Password:

**Submit**