Task 4: Complex Form Validation and Dynamic DOM Manipulation.

Objective: Extend form validation and implement dynamic updates to the DOM.

Code:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-
scale=1.0">
  <title>Complex Form Validation</title>
  <style>
    body {
      font-family: Arial, sans-serif;
      display: flex;
      flex-direction: column;
      align-items: center;
      justify-content: center;
      height: 100vh;
    }
    form {
      border: 1px solid #ccc;
      padding: 20px;
      width: 300px;
      border-radius: 10px;
```

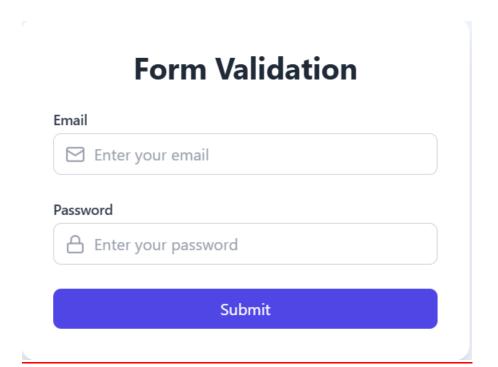
```
background-color: #f9f9f9;
    }
   input {
     width: 100%;
     padding: 8px;
     margin: 5px 0;
    }
   .error {
     color: red;
     font-size: 12px;
    }
   .success {
     color: green;
   }
 </style>
</head>
<body>
  <h2>Form Validation Example</h2>
 <form id="signupForm">
    <label for="email">Email:</label>
   <input type="email" id="email" required>
    <label for="password">Password:</label>
    <input type="password" id="password" required>
```

```
<button type="submit">Submit</button>
  </form>
 <script>
document.getElementById("signupForm").addEventListener("submit",
function(event) {
     event.preventDefault(); // Prevent page refresh
     let email = document.getElementById("email").value;
     let password = document.getElementById("password").value;
     let emailError = document.getElementById("emailError");
     let passwordStrength =
document.getElementById("passwordStrength");
     let message = document.getElementById("message");
     emailError.textContent = "";
     passwordStrength.textContent = "";
     message.textContent = "";
     // Email validation
     if (!email.includes("@") | | !email.includes(".")) {
       emailError.textContent = "Invalid email address!";
```

```
return;
      }
      // Password validation
      let strongPassword = /^{?=.*[a-z]}(?=.*[A-z])
Z])(?=.*\d)(?=.*[@$!%*?&])[A-Za-z\d@$!%*?&]{8,}$/;
      if (!strongPassword.test(password)) {
        passwordStrength.textContent = "Password must be 8+
characters, include uppercase, number, and symbol.";
        return;
      }
      // If valid, update DOM dynamically
      message.textContent = "Form submitted successfully!";
      message.className = "success";
    });
    // Real-time password strength checker
    document.getElementById("password").addEventListener("input",
function() {
      let password = this.value;
      let passwordStrength =
document.getElementById("passwordStrength");
      if (password.length < 8) {
        passwordStrength.textContent = "Weak password";
      } else {
```

```
passwordStrength.textContent = "Strong password";
    passwordStrength.className = "success";
}
});
</script>
</body>
</html>
```

Output:





Success!

Your form has been submitted successfully.

Submit Another