

CHAROTAR UNIVERSITY OF SCIENCE & TECHNOLOGY
DEVANG PATEL INSTITUTE OF ADVANCE TECHNOLOGY &
RESEARCH

Department of Computer Engineering

Subject Name: Web Development Framework

Semester: III

Subject Code: ITEU204

Academic year: 2025-26 [ODD]

Practical File

No.	Aim of the Practical
3.	<p><u>Problem Definition:</u></p> <p>Create a user registration page with frontend validation using HTML5 and JavaScript.</p> <p><u>PROGRAM CODE:</u></p> <pre><!DOCTYPE html> <html> <head> <title>User Registration</title> <style> body { font-family: Arial, sans-serif; margin: 40px;</pre>

```
}  
.form-box {  
  max-width: 400px;  
  margin: auto;  
  border: 1px solid #ccc;  
  padding: 25px;  
  border-radius: 10px;  
}  
input[type="text"], input[type="email"], input[type="password"] {  
  width: 100%;  
  padding: 10px;  
  margin: 10px 0 20px;  
  border: 1px solid #ccc;  
  border-radius: 5px;  
}  
.error {  
  color: red;  
  margin-bottom: 10px;  
}  
button {  
  padding: 10px 20px;  
  background-color: green;  
  color: white;  
  border: none;  
  border-radius: 5px;  
  cursor: pointer;
```

```
    }
    button:hover {
        background-color: darkgreen;
    }
</style>
</head>
<body>
<div class="form-box">
    <h2>Register</h2>
    <div id="errorMsg" class="error"></div>
    <form onsubmit="return validateForm()">
        <label>Username:</label>
        <input type="text" id="username" required>
        <label>Email:</label>
        <input type="email" id="email" required>
        <label>Password:</label>
        <input type="password" id="password" required>
        <label>Confirm Password:</label>
        <input type="password" id="confirmPassword" required>
        <button type="submit">Register</button>
    </form>
</div>
<script>
    function validateForm() {
        let username = document.getElementById("username").value.trim();
        let email = document.getElementById("email").value.trim();
```

```
let password = document.getElementById("password").value;
let confirmPassword =
document.getElementById("confirmPassword").value;
let errorMsg = document.getElementById("errorMsg");
errorMsg.textContent = "";
if (username === "" || email === "" || password === "" || confirmPassword
=== "") {
    errorMsg.textContent = "All fields are required!";
    return false;
}
if (!email.includes("@") || !email.includes(".")) {
    errorMsg.textContent = "Enter a valid email address!";
    return false;
}
if (password.length < 6) {
    errorMsg.textContent = "Password must be at least 6 characters!";
    return false;
}
if (password !== confirmPassword) {
    errorMsg.textContent = "Passwords do not match!";
    return false;
}
alert("Registration successful!");
return true;
}
</script>
```

</body>

</html>

OUTPUT:

Register
Username:

Email:

Password:

Confirm Password:

Register
Username:

Email:

Password:

Confirm Password:

Please fill out this field.

Register

Passwords do not match!

Username:

Pethani Jensy

Email:

24dcs100@charusat.edu.in

Password:

.....

Confirm Password:

.....

Register

Register

Password must be at least 6 characters!

Username:

Pethani Jensy

Email:

24dcs100@charusat.edu.in

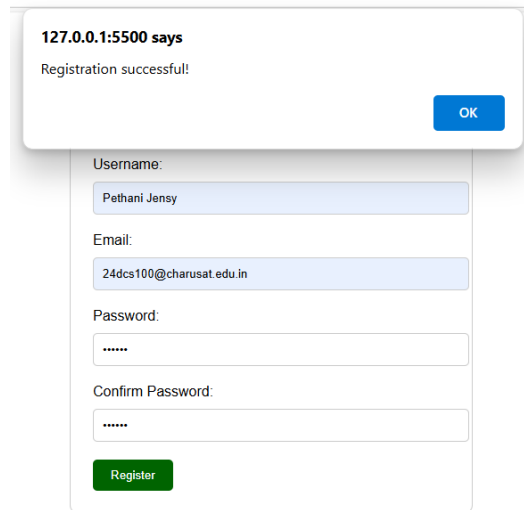
Password:

...

Confirm Password:

...

Register



The screenshot shows a web application interface. At the top, a white notification box with a blue border displays the message "127.0.0.1:5500 says" in bold, followed by "Registration successful!" in a smaller font. A blue "OK" button is located in the bottom right corner of this box. Below the notification, there is a registration form. The form contains four input fields: "Username:" with the value "Pethani Jency", "Email:" with the value "24dcs100@charusat.edu.in", "Password:" with masked characters "*****", and "Confirm Password:" with masked characters "*****". A green "Register" button is positioned at the bottom of the form.

Conclusion:

I learned how to create a basic user registration form using HTML and validate user inputs using simple JavaScript. It helped me understand how frontend validation works to improve form accuracy and user experience.