

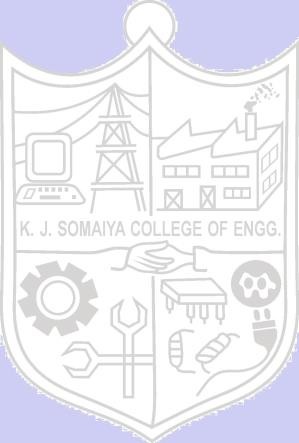
# Batch: B2 Roll No.:16010421119 Tutorial No.: 6

**Aim: Design a web page containing a form and perform appropriate client side validation on that form**

# Theory

**What is form validation:-** Form validation helps us to ensure that users fill out forms in the correct format, making sure that submitted data will work successfully with our applications. When you don't enter your data in the format they are expecting. You'll get messages such as:

* "This field is required" (you can't leave this field blank)
* "Please enter your phone number in the format xxx-xxxx" (it enforces three numbers followed by a dash, followed by four numbers)
* "Please enter a valid e-mail address" (if your entry is not in the format of "[somebody@example.com](mailto:somebody@example.com)")
* "Your password needs to be between 8 and 30 characters long, and contain one uppercase letter, one symbol, and a number"



**Client-side validation is** validation that occurs in the browser before the data has been submitted to the server. This is more user-friendly than server-side validation as it gives an instant response. This can be further subdivided:

* JavaScript validation is coded using JavaScript. It is completely customizable.
* Built-in form validation using HTML5 form validation features. This generally does not require JavaScript. Built-in form validation has better performance, but it is not as customizable as JavaScript**.**

# Activity

Apply validation in form using Regex/Built in validation/Event handling. Choose appropriate techniques

# Results: (Program printout with output)

# Code:

# <!DOCTYPE html>

# <html>

# <head>

# <title>Login Form</title>

# <link rel="stylesheet" href="style.css">

# </head>

# <body>

# <div class="login-box">

# <h1>Login</h1>

# <form>

# <label for="username">Username:</label>

# <input type="text" id="username" name="username" required>

# <label for="password">Password:</label>

# <input type="password" id="password" name="password" required>

# <button type="button" onclick="login()">Login</button>

# </form>

# </div>

# <script src="script.js"></script>

# </body>

# </html>

# Style.css:

# body {

# margin: 0;

# padding: 0;

# font-family: sans-serif;

# background-color: #f2f2f2;

# }

# .login-box {

# width: 300px;

# padding: 40px;

# background-color: #fff;

# position: absolute;

# top: 50%;

# left: 50%;

# transform: translate(-50%, -50%);

# box-shadow: 0px 0px 10px rgba(0, 0, 0, 0.3);

# }

# h1 {

# margin: 0 0 20px 0;

# padding: 0;

# text-align: center;

# }

# label {

# display: block;

# font-weight: bold;

# margin-bottom: 5px;

# }

# input[type="text"],

# input[type="password"] {

# width: 100%;

# padding: 10px;

# margin-bottom: 20px;

# border-radius: 5px;

# border: none;

# background-color: #f2f2f2;

# }

# button {

# width: 100%;

# padding: 10px;

# background-color: #4CAF50;

# border: none;

# color: #fff;

# font-weight: bold;

# border-radius: 5px;

# cursor: pointer;

# }

# Script.js:

# function login() {

# var username = document.getElementById("username").value;

# var password = document.getElementById("password").value;

# if (username == "" || password == "") {

# alert("Please fill in all fields.");

# } else if (username == "admin" && password == "password") {

# alert("Login successful!");

# } else {

# alert("Invalid username or password.");

# }

# }

# 

# 

# 

# Outcomes:

CO3: Apply JavaScript and JSON for web application development

**Conclusion: (Conclusion to be based on the outcomes achieved)**

**We can conclude that we have learnt about Form Validation in JS.**

# Grade: AA / AB / BB / BC / CC / CD /DD

Signature of faculty in-charge with date

# References:

**Books/ Journals/ Websites:**

* “Web technologies: Black Book”, Dreamtech Publications
* [http://www.w3schools.com](http://www.w3schools.com/)

