

Experiment -1.1

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Branch: CSE(DevOps)

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Subject Name:Docker and Kubernetes

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Section/Group: 22BCD-1/A

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1. Aim/Overview of the practical: Write JavaScript to validate the following fields of the registration form:

- First Name (Name should contains alphabets and the length should not be less than 6 characters)
- Password (Password should not be less than 6 characters length)
- E-mail id (should not contain any invalid and must follow the standard pattern, name@domain.com)
- Mobile Number (Phone number should contain 10 digits only)
- Last Name and Address (should not be Empty)

2. Apparatus: Windows 11 PC, VS Code, Chrome Browser

3. Steps for experiment/practical:

HTML:-

```
<div class="container">
  <h2>Registration Form</h2>
  <form id="registrationForm" onsubmit="return validateForm()">
    <label for="username">Username:</label>
    <input type="text" id="username" name="username">
    <span class="error" id="usernameError"></span>

    <label for="email">Email:</label>
    <input type="text" id="email" name="email">
    <span class="error" id="emailError"></span>

    <label for="mobile">Mobile Number:</label>
    <div class="mobile-input">
      <span>+91</span>
      <input type="text" id="mobile" name="mobile">
    </div>
    <span class="error" id="mobileError"></span>

    <label for="password">Password:</label>
    <input type="password" id="password" name="password">
    <span class="error" id="passwordError"></span>
```

```
<label for="password">Password:</label>
<input type="password" id="password" name="password">
<span class="error" id="passwordError"></span>

<label for="confirmPassword">Confirm Password:</label>
<input type="password" id="confirmPassword" name="confirmPassword">
<span class="error" id="confirmPasswordError"></span>

<button type="submit">Register</button>
</form>
</div>
<script src="scripts.js"></script>
</body>
</html>
```

CSS:-

```
body {
  font-family: Arial, sans-serif;
  background-color: #f2f2f2;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  margin: 0;
}

.container {
  background-color: white;
  padding: 20px;
  border-radius: 10px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

h2 {
  text-align: center;
}

form {
  display: flex;
  flex-direction: column;
}
```

```
input {
  padding: 10px;
  margin-top: 5px;
  border: 1px solid #ccc;
  border-radius: 5px;
}

button {
  margin-top: 20px;
  padding: 10px;
  background-color: #4CAF50;
  color: white;
  border: none;
  border-radius: 5px;
  cursor: pointer;
}

button:hover {
  background-color: #5a049;
}

.error {
  color: red;
  font-size: 0.9em;
}
```

JAVASCRIPT:-

```
document.getElementById("email").addEventListener("input", validateEmail);
document.getElementById("email").addEventListener("blur", validateEmail);

function validateEmail() {
  const email = document.getElementById("email").value;
  const emailRegex = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;
  if (!emailRegex.test(email)) {
    showError("emailError", "Invalid email ID.");
    return false;
  }
  clearError("emailError");
  return true;
}

function showError(id, message) {
  document.getElementById(id).innerText = message;
}

function clearError(id) {
  document.getElementById(id).innerText = "";
}

function validateForm() {
  let isValid = true;
}
```

```
function validateForm() {  
    clearError('usernameError');  
    clearError('emailError');  
    clearError('mobileError');  
    clearError('passwordError');  
    clearError('confirmPasswordError');  
  
    // Get form values  
    const username = document.getElementById('username').value;  
    const email = document.getElementById('email').value;  
    const mobile = document.getElementById('mobile').value;  
    const password = document.getElementById('password').value;  
    const confirmPassword = document.getElementById('confirmPassword').value;  
  
    // Username validation  
    if (username === '') {  
        showError('usernameError', 'Username is required');  
        isValid = false;  
    }  
  
    // Email validation  
    if (!validateEmail()) {  
        isValid = false;  
    }  
  
    // Mobile validation  
    const mobilePattern = /^[6-9]\d{9}$/;  
    if (mobile === '') {  
        showError('mobileError', 'Mobile number is required');  
    }  
}
```



Registration Form

First Name:

Last Name:


Email:

Password:

Re-type Password:

Contact:

Gender:

Male 

Submit

Password

Password should be at least 8 characters long and contain at least one uppercase letter, one lowercase letter, one number, and one special character.

Email

Learning outcomes (What I have learnt):

1. I have learnt how to structure a webpage using HTML
2. I have learnt how to grant logic in our webpage using JavaScript
3. I have learnt how to design our webpage using CSS
4. I have learnt how I can show an element based on some condition
5. I have learnt about the DOM model in JS

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			