**RAJALAKSHMI ENGINEERING COLLEGE**

**RAJALAKSHMI NAGAR, THANDALAM – 602 105**



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| **CS23A34**  **USER INTERFACE AND DESIGN LAB** |
| **Laboratory Observation Notebook** |

**Name :** VARSHA H

**Year/Branch/Section :** II/CSE/F

**Register No. :** 230701371

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**Ex. No.: 9**

**Register No.: 230701371**   **Name: VARSHA H**

**Design input forms that validate data (e.g., email, phone number) and display error messages using HTML/CSS, JavaScript (with Validator.js)**

**AIM:**

The aim is to design input forms that validate data, such as email and phone number, and display error messages using HTML/CSS and JavaScript with Validator.js.

**PROCEDURE:**

**Step 1: Setting Up the HTML Form**

Start by creating an HTML form with input fields for the email and phone number. **html**

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Form Validation</title>

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

</head>

<body>

<div class="container">

<form id="myForm">

<label for="email">Email:</label>

<input type="email" id="email" name="email" required>

<span id="emailError" class="error"></span>

<label for="phone">Phone Number:</label>

<input type="text" id="phone" name="phone" required>

<span id="phoneError" class="error"></span>

<button type="submit">Submit</button>

</form>

</div> <script src="https://cdnjs.cloudflare.com/ajax/libs/validator/13.6.0/validator.min.js"></script> <script src="script.js"></script>

</body>

</html>

**Step 2: Styling the Form with CSS**

Next, add some basic styling to make the form look nice. **css**

/\* style.css \*/ body { fontfamily: Arial, sans-serif; background-color: #f4f4f4; display: flex; justify-content: center; align-items: center; height: 100vh; margin: 0;

}

.container { background-color: white; padding: 20px; border-radius: 5px; box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);

}

form { display: flex; flexdirection: column;

}

label { marginbottom: 5px;

}

input { marginbottom: 10px; padding: 10px; border: 1px solid #ccc; border-radius: 3px;

}

button { padding: 10px; background-color: #28a745; color: white; border: none; border-radius: 3px; cursor: pointer;

}

button:hover { backgroundcolor: #218838;

}

.error { color: red; font-size: 0.875em; }

**Step 3: Adding JavaScript for Validation**

Finally, add JavaScript to validate the input fields using Validator.js and display error messages.

**javascript** /\* script.js \*/

document.getElementById('myForm').addEventListener('submit', function (e) { e.preventDefault();

let email = document.getElementById('email').value;

let phone = document.getElementById('phone').value;

let emailError = document.getElementById('emailError');

let phoneError = document.getElementById('phoneError');

// Clear previous error messages emailError.textContent = ''; phoneError.textContent = '';

// Validate email if (!validator.isEmail(email)) { emailError.textContent = 'Please enter a valid email address.';

}

// Validate phone number if (!validator.isMobilePhone(phone, 'any')) { phoneError.textContent = 'Please enter a valid phone number.';

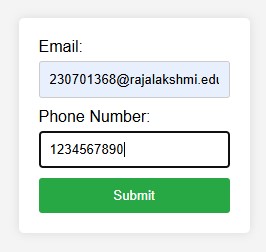
}

// If no errors, submit the form (for demonstration purposes, we'll just log the values) if (validator.isEmail(email) && validator.isMobilePhone(phone, 'any')) { console.log('Email:', email); console.log('Phone:', phone);

}

});

**OUTPUT:**



**RESULT:**

Hence we designed the input forms that validate data, such as email and phone number, and display error messages using HTML/CSS and JavaScript with Validator.js.