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LAB EXPERIMENT -2

LAB EXPERIMENT 02

Write JavaScript to validate the following fields of the Registration page.

1. First Name (Name should contains alphabets and the length

Should not be less than 6 characters).

1. Password (Password should not be less than 6 characters length).
2. E-mail id (should not contain any invalid and must follow the

standard pattern [name@domain.com)](mailto:name@domain.com)

1. Mobile Number (Phone number should contain 10 digits only).
2. Last Name and Address (should not be Empty). Aim:

To create a JavaScript function that validates the following fields on a registration page:

* 1. First Name – Should contain only alphabets and should be at least 6 characters long.
  2. Password – Should be at least 6 characters long.
  3. E-mail ID – Should follow a standard pattern [(name@domain.com).](mailto:(name@domain.com)
  4. Mobile Number – Should contain exactly 10 digits.
  5. Last Name and Address – Should not be empty. Algorithm:
     1. Create an HTML form: Structure the form to include fields for First Name, Last Name, Password, E-mail, Mobile Number, and Address.
     2. Add a Submit Button: This will trigger the validation function when clicked.
     3. Write the JavaScript function:
        + Validate the First Name using a regular expression that allows only alphabets and checks the length.
        + Validate the Password to ensure it's at least 6 characters long.
        + Validate the E-mail using a regular expression to match the standard pattern

[(name@domain.com).](mailto:(name@domain.com)

* + - * Validate the Mobile Number to ensure it's a 10- digit number.
      * Validate the Last Name and Address to ensure they are not empty.
    1. Display error messages: If any field is invalid, show

an appropriate error message and prevent the form from submitting.

HTML Code:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

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

<title>Registration Form</title>

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

</head>

<body>

<h2>Registration Form</h2>

<form id="registrationForm" onsubmit="return validateForm()">

<label for="firstName">First Name:</label>

<input type="text" id="firstName" name="firstName">

<span id="firstNameError" style="color:red;"></span><br><br>

<label for="lastName">Last Name:</label>

<input type="text" id="lastName" name="lastName">

<span id="lastNameError" style="color:red;"></span><br><br>

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

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

<span id="emailError" style="color:red;"></span><br><br>

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

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

<span id="passwordError" style="color:red;"></span><br><br>

<label for="mobile">Mobile Number:</label>

<input type="text" id="mobile" name="mobile">

<span id="mobileError" style="color:red;"></span><br><br>

<label for="address">Address:</label>

<textarea id="address"

name="address"></textarea>

<span id="addressError" style="color:red;"></span><br><br>

<input type="submit" value="Submit">

</form>

</body>

</html>

JavaScript Code (script.js):

function validateForm() { let isValid = true;

// Validate First Name const firstName =

document.getElementById('firstName').value;

const firstNameError =

document.getElementById('firstNameError');

if (firstName.length < 6 || !/^[A-Za- z]+$/.test(firstName)) {

firstNameError.textContent = "First Name should contain only alphabets and be at least 6 characters long.";

isValid = false;

} else {

firstNameError.textContent = "";

}

// Validate Last Name const lastName =

document.getElementById('lastName').value;

const lastNameError =

document.getElementById('lastNameError'); if (lastName.trim() === "") {

lastNameError.textContent = "Last Name should not be empty.";

isValid = false;

} else {

lastNameError.textContent = "";

}

// Validate Email const email =

document.getElementById('email').value;

const emailError =

document.getElementById('emailError');

const emailPattern = /^[a-zA-Z0-9.\_%+-]+@[a-zA-Z0- 9.-]+\.[a-zA-Z]{2,}$/;

if (!emailPattern.test(email)) {

emailError.textContent = "Please enter a valid email address.";

isValid = false;

} else {

emailError.textContent = "";

}

// Validate Password const password =

document.getElementById('password').value;

const passwordError =

document.getElementById('passwordError'); if (password.length < 6) {

passwordError.textContent = "Password should be at least 6 characters long.";

isValid = false;

} else {

passwordError.textContent = "";

}

// Validate Mobile Number

const mobile =

document.getElementById('mobile').value;

const mobileError =

document.getElementById('mobileError'); const mobilePattern = /^[0-9]{10}$/;

if (!mobilePattern.test(mobile)) {

mobileError.textContent = "Mobile Number should contain exactly 10 digits.";

isValid = false;

} else {

mobileError.textContent = "";

}

// Validate Address const address =

document.getElementById('address').value;

const addressError =

document.getElementById('addressError');

if (address.trim() === "") {

addressError.textContent = "Address should not be empty.";

isValid = false;

} else {

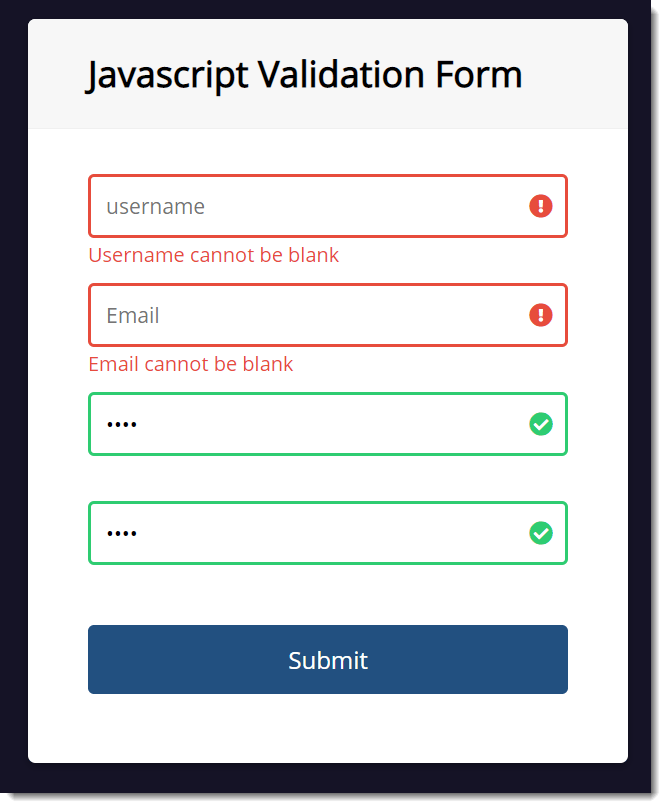
addressError.textContent = "";

}

return isValid;

}

OUTPUT:



RESULT :

The registration page ensures that only valid data is submitted by the user, preventing incorrect or

incomplete information.