EXP NO: 2	JavaScript Form Validation for Registration Page

AIM:

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

a) First Name (Name should contains alphabets and the length

Should not be less than 6 characters).

b) Password (Password should not be less than 6 characters length).

c) E-mail id (should not contain any invalid and must follow the

standard pattern name@domain.com)

d) Mobile Number (Phone number should contain 10 digits only).

e) Last Name and Address (should not be Empty).

CODE:

Validate.html

```
<!DOCTYPE html>
<html>
<head>
   <title>Registration Form</title>
   <style>
      body {
         font-family: Arial, sans-serif;
         background-color: #f2f2f2;
         display: flex;
         flex-direction: column;
         align-items: center;
         padding: 20px;

      }

      form {
         background-color: white;
```

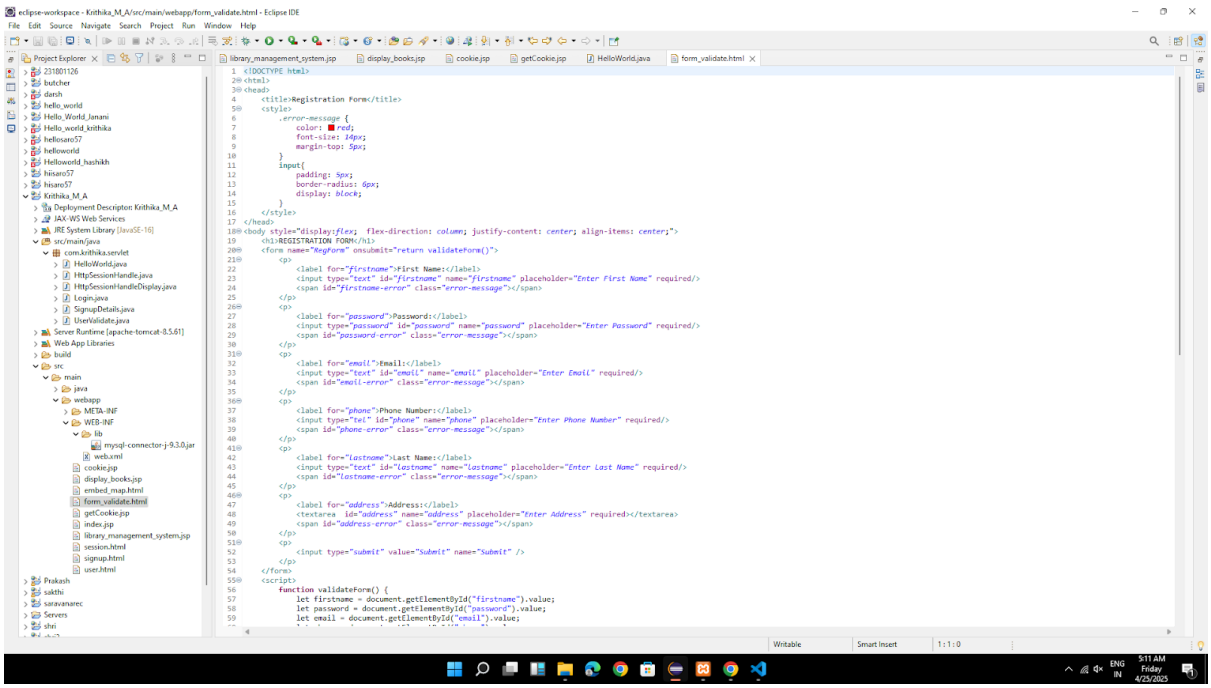
```
    padding: 20px;
    padding-right: 30px;
    border-radius: 10px;
    box-shadow: 0 0 10px rgba(0,0,0,0.1);
    width: 320px;
}

label {
    font-weight: bold;
}

input, textarea {
    width: 100%;
    margin-top: 5px;
    margin-bottom: 10px;
    padding: 8px;
    border: 1px solid #ccc;
    border-radius: 6px;
}

.error-message {
    color: red;
    font-size: 13px;
    margin-bottom: 10px;
}

input[type="submit"] {
    background-color: #4CAF50;
    color: white;
    cursor: pointer;
    font-weight: bold;
    border: none;
}

input[type="submit"]:hover {
    background-color: #45a049;
}
```

```
        h1 {
            margin-bottom: 20px;
        }
    </style>
</head>
<body>
    <h1>Registration Form</h1>
    <form name="RegForm" onsubmit="return validateForm()">
        <label for="firstname">First Name:</label>
        <input type="text" id="firstname" name="firstname" required>
        <span id="firstname-error" class="error-message"></span>

        <label for="lastname">Last Name:</label>
        <input type="text" id="lastname" name="lastname" required>
        <span id="lastname-error" class="error-message"></span>

        <label for="password">Password:</label>
        <input type="password" id="password" name="password" required>
        <span id="password-error" class="error-message"></span>

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

        <label for="phone">Phone Number:</label>
        <input type="tel" id="phone" name="phone" required>
        <span id="phone-error" class="error-message"></span>

        <label for="address">Address:</label>
        <textarea id="address" name="address" required></textarea>
        <span id="address-error" class="error-message"></span>

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

    <script>
```

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

    let firstname = document.getElementById("firstname").value.trim();
    let lastname = document.getElementById("lastname").value.trim();
    let password = document.getElementById("password").value;
    let email = document.getElementById("email").value.trim();
    let phone = document.getElementById("phone").value.trim();
    let address = document.getElementById("address").value.trim();

    const firstnameError = document.getElementById("firstname-error");
    const lastnameError = document.getElementById("lastname-error");
    const passwordError = document.getElementById("password-error");
    const emailError = document.getElementById("email-error");
    const phoneError = document.getElementById("phone-error");
    const addressError = document.getElementById("address-error");

    firstnameError.textContent = "";
    lastnameError.textContent = "";
    passwordError.textContent = "";
    emailError.textContent = "";
    phoneError.textContent = "";
    addressError.textContent = "";

    if (!/^[A-Za-z]{6,}$/.test(firstname)) {
        firstnameError.textContent = "First Name must be alphabetic and at least 6 characters.";
        isValid = false;
    }

    if (lastname === "") {
        lastnameError.textContent = "Last Name should not be empty.";
        isValid = false;
```

```
        }


        if (password.length < 6) {
            passwordError.textContent = "Password must be at least 6 characters.";
            isValid = false;
        }


        const emailPattern = /^[a-zA-Z0-9._%+-]+@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}$/;
        if (!emailPattern.test(email)) {
            emailError.textContent = "Invalid email format (e.g., name@domain.com).";
            isValid = false;
        }


        if (!/^\d{10}$/.test(phone)) {
            phoneError.textContent = "Phone number must be exactly 10 digits.";
            isValid = false;
        }

        if (address === "") {
            addressError.textContent = "Address should not be empty.";
            isValid = false;
        }

        if (isValid) {
            alert("Registered successfully!");
        }

        return isValid;
    }
  </script>
</body>
</html>
```

OUTPUT:


eclipse-workspace - Krithika_M_A/src/main/webapp/form_validate.html - Eclipse IDE
File Edit Source Navigate Search Project Run Window Help
Project Explorer
library_management_system.jsp
display_books.jsp
cookie.jsp
getCookie.jsp
HelloWorld.java
form_validate.html
<!DOCTYPE html>
<html>
<head>
<title>Registration Form</title>
<style>
.error-message {
color: red;
font-size: 14px;
margin-top: 5px;
}
input{
padding: 5px;
border-radius: 6px;
display: block;
}
</style>
</head>
<body style="display:flex; flex-direction: column; justify-content: center; align-items: center;">
<h1>REGISTRATION FORM</h1>
<form name="RegForm" onsubmit="return validateForm()">

<label for="firstname">First Name:</label>
<input type="text" id="firstname" name="firstname" placeholder="Enter First Name" required/>

<label for="password">Password:</label>
<input type="password" id="password" name="password" placeholder="Enter Password" required/>

<label for="email">Email:</label>
<input type="text" id="email" name="email" placeholder="Enter Email" required/>

<label for="phone">Phone Number:</label>
<input type="tel" id="phone" name="phone" placeholder="Enter Phone Number" required/>

<label for="lastname">Last Name:</label>
<input type="text" id="lastname" name="lastname" placeholder="Enter Last Name" required/>

<label for="address">Address:</label>
<textarea id="address" name="address" placeholder="Enter Address" required></textarea>

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

</form>
<script>
function validateForm() {
let firstname = document.getElementById("firstname").value;
let password = document.getElementById("password").value;
let email = document.getElementById("email").value;
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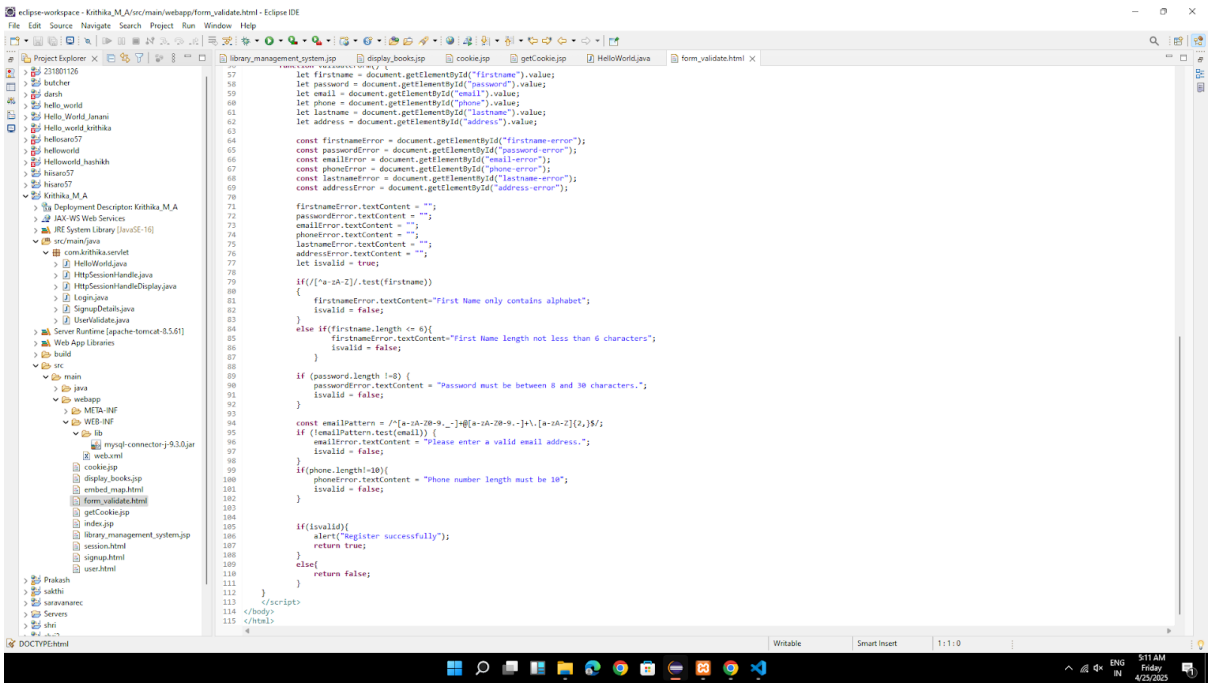
eclipse-workspace - Krithika_M_A/src/main/webapp/form_validate.html - Eclipse IDE
File Edit Source Navigate Search Project Run Window Help
Project Explorer
library_management_system.jsp
display_books.jsp
cookie.jsp
getCookie.jsp
HelloWorld.java
form_validate.html
let firstname = document.getElementById("firstname").value;
let password = document.getElementById("password").value;
let email = document.getElementById("email").value;
let phone = document.getElementById("phone").value;
let lastname = document.getElementById("lastname").value;
let address = document.getElementById("address").value;
const firstnameError = document.getElementById("firstname-error");
const passwordError = document.getElementById("password-error");
const emailError = document.getElementById("email-error");
const phoneError = document.getElementById("phone-error");
const lastnameError = document.getElementById("lastname-error");
const addressError = document.getElementById("address-error");
firstnameError.textContent = "";
passwordError.textContent = "";
emailError.textContent = "";
phoneError.textContent = "";
lastnameError.textContent = "";
addressError.textContent = "";
let isvalid = true;
if(/[^a-zA-Z]/.test(firstname))
{
firstnameError.textContent="First Name only contains alphabet";
isvalid = false;
}
else if(firstname.length <= 6){
firstnameError.textContent="First Name length not less than 6 characters";
isvalid = false;
}
if (password.length !=8) {
passwordError.textContent = "Password must be between 8 and 30 characters.";
isvalid = false;
}
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;
}
if(phone.length!=10){
phoneError.textContent = "Phone number length must be 10";
isvalid = false;
}
if(isvalid){
alert("Register successfully");
return true;
}
else{
return false;
}
}
</script>
</body>
</html>
DOCTYPE:html
Writable
Smart Insert
1:1:0
ENG
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5:11 AM
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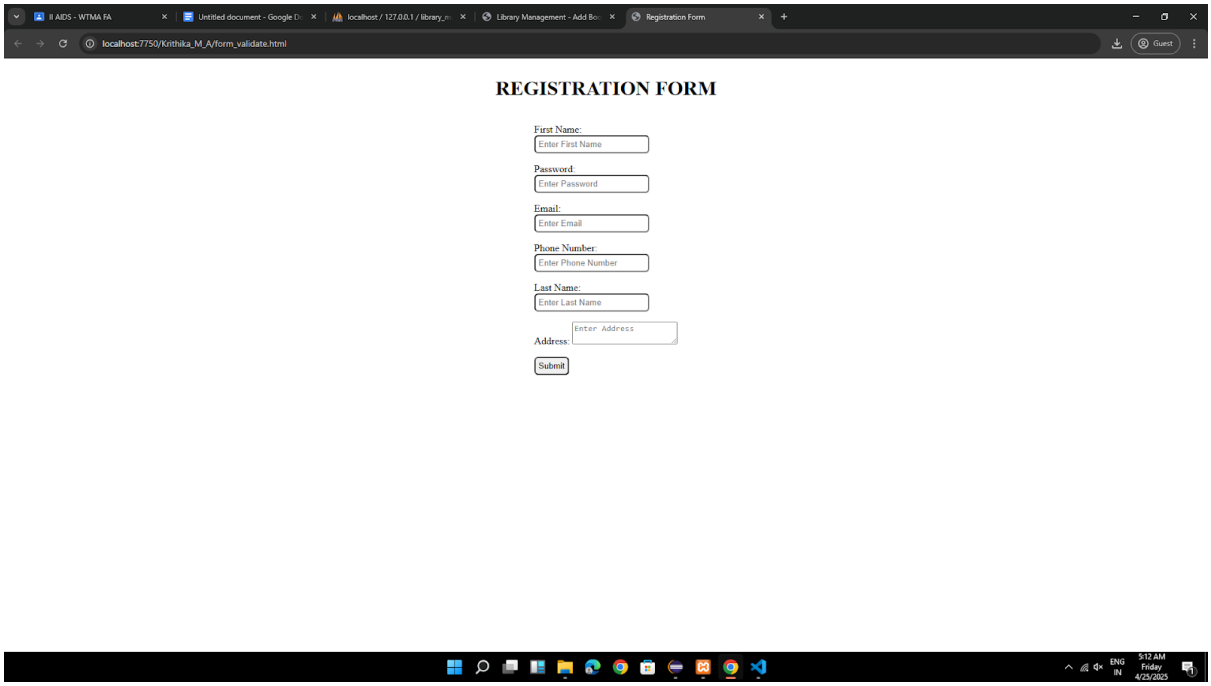
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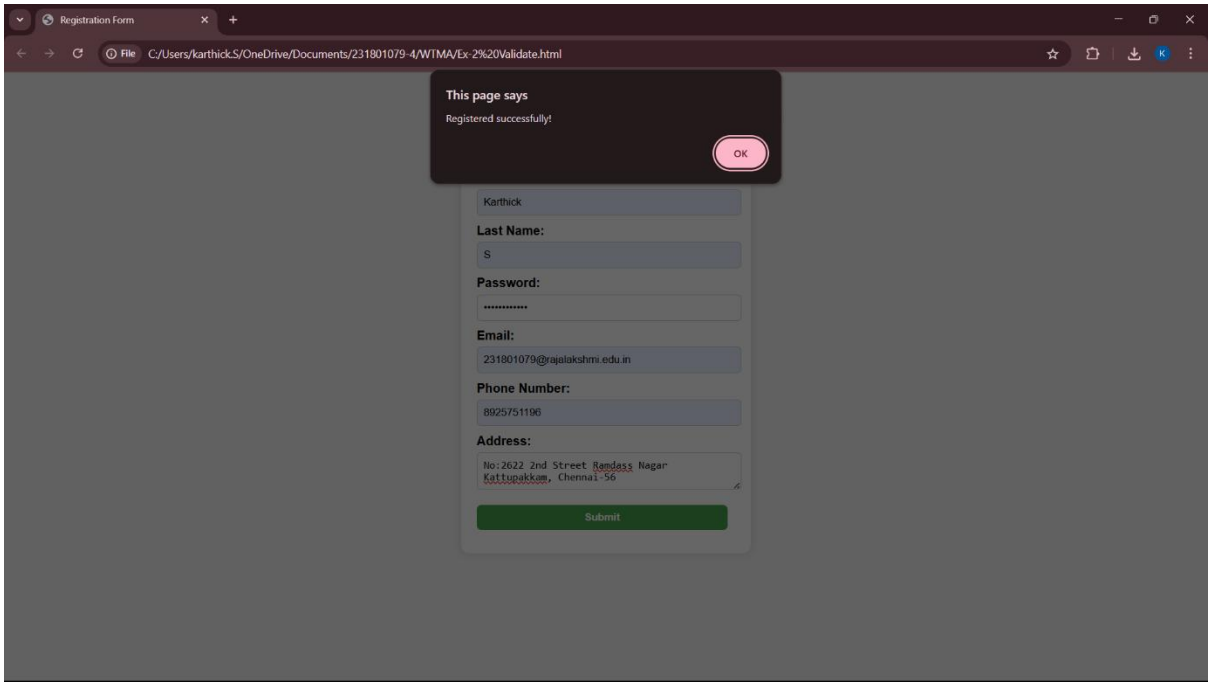
Untitled document - Google D
localhost / 127.0.0.1 / library_m
Library Management - Add Boo
Registration Form
localhost:7750/Krithika_M_A/form_validate.html
Guest
REGISTRATION FORM
First Name:
Enter First Name
Password:
Enter Password
Email:
Enter Email
Phone Number:
Enter Phone Number
Last Name:
Enter Last Name
Address:
Enter Address
Submit

ENG
IN
5:12 AM
Friday
4/25/2025


Registration Form
File
C:/Users/karthick.S/OneDrive/Documents/231801079-4/WTMA/Ex-2%20Validate.html
This page says
Registered successfully!
OK
Karthick
Last Name:
S
Password:
Email:
231801079@rajalakshmi.edu.in
Phone Number:
8925751196
Address:
No:2622 2nd Street Ramdass Nagar
Kattupakkam, Chennai-56
Submit

RESULT:

The Registration form with required validation is successfully implemented.