LAB REPORT

01

CSE416: Web Engineering Lab

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Experiment No: 01	**Experiment Name:** Implement client-side form validation using javascript.

Obtained Output:

After click from Register Button we can go to Register Page. Where client side validation form is is implemented.

Took input of Name, email, password, confirm password, favorite genre, division, favourite colour & Country Name. I used Validation in:

1. **Name:** Where the name should be at least 3 Characters lonng. (Used .length() to validate)
2. **E-mail:** Here there should be @ in the sentence. (Used .includes() to validate)
3. **Password:** Here the password should have at least 1 special character, 1 Upper case letter, 1 digit & over all 6 charecters. (Used regular expressions: "/[!@#$%^&()*-+]/", "/[0123456789]/", "/[A-Z]/" & .length() to validate)
4. **Confirm Password:** compared with pasword. (Using ===)
5. **Favorite genre:** At least two should be selected. (Used list)
6. **Country Name**: It should be of All 3 upper case word. (used regular expression: "/^[A-Z]{3}$/")

Proper way

Registration

Name: [ ] Name should be at least 3 characters long

E-mail: [ ] Email doesnt contain @.

Password: [password] You are missing -6characters -a Upper Case letter -a digit -a Special Character.

Confirm Password: [confirm password]

Date of Birth: [mm/dd/yyyy 📅]

Gender: 🔵 Male ⚪ Female

Favourite Genres: ☐ Action ☐ Drama ☐ Adventure ☐ Puzzle ☐ FPS Selected values are less than 2

Division: [Bogura ⌄]

Favourite Colour: [⬛]

Country Name: [ ] Country code should be 3 lettres all uppercase

[Register]

E-mail: [ ] Email doesnt contain @.

Password: [••••••] You are missing -a Upper Case letter -a digit -a Special Character.

E-mail: [ ] Email doesnt contain @.

Password: [•] You are missing -6characters -a Upper Case letter -a digit.

Confirm Password: [confirm password] Confirm Password must match Password

Password: [•] You are missing -6characters -a digit -a Special Character.

E-mail: [ ] Email doesnt contain @.

Password: [•••] You are missing -6characters -a digit.

Confirm Password: [confirm password] Confirm Password must match Passw

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Regapp.js

```javascript
1    function fun(){
2        var name = document.getElementById("Name").value;
3        if(name.length < 3)
4        {
5            document.getElementById("NameError").innerHTML = "Name should be at least 3 characters long";
6            event.preventDefault();
7        }
8
9        var email = document.getElementById("EMail").value;
10       if(!email.includes('@'))
11       {
12           document.getElementById("EMailError").innerHTML = "Email doesnt contain @.";
13           event.preventDefault();
14       }
15       // -------------------------------password-------------------------------
16       var password = document.getElementById("Password").value;
17       var confirmpassword = document.getElementById("ConfirmPassword").value;
18       var hasless6 = true;
19       if(password.length < 6)
20       {
21           var hasless6 = false;
22       }
23       var hasUpperCase = /[A-Z]/.test(password);
24       var hasDigits = /[0123456789]/.test(password);
25       var hasSpecialChar = /[!@#$%^&()*-+]/.test(password);
26
27       if ( !hasless6 || !hasUpperCase || !hasDigits || !hasSpecialChar) {
28           a= "You are missing"
29           if(!hasless6)
30           {
31               a = a +" -6characters";
32           }
```

```
22        }
23        var hasUpperCase = /[A-Z]/.test(password);
24        var hasDigits = /[0123456789]/.test(password);
25        var hasSpecialChar = /[!@#$%^&()*-+]/.test(password);
26
27        if ( !hasless6 || !hasUpperCase || !hasDigits || !hasSpecialChar) {
28            a= "You are missing"
29            if(!hasless6)
30            {
31                a = a +" -6characters";
32            }
33            if(!hasUpperCase)
34            {
35                a = a +" -a Upper Case letter";
36            }
37            if(!hasDigits)
38            {
39                a = a +" -a digit";
40            }
41            if(!hasSpecialChar)
42            {
43                a = a +" -a Special Character";
44            }
45            a = a + ".";
46            document.getElementById("PasswordError").innerHTML = a;
47            event.preventDefault();
48            // var a = "";
49        }
50
```

```
if(confirmpassword !== password)
{
    document.getElementById("ConfirmPasswordError").innerHTML = "Confirm Password must match Password.";
    event.preventDefault();
}
// ---------------------------------Genre selection validation-----------------------------------------
let selectedValues = [];

if (document.getElementById('FGA').checked) selectedValues.push(document.getElementById('FGA').value);
if (document.getElementById('FGAd').checked) selectedValues.push(document.getElementById('FGAd').value);
if (document.getElementById('FGP').checked) selectedValues.push(document.getElementById('FGP').value);
if (document.getElementById('FGF').checked) selectedValues.push(document.getElementById('FGF').value);
if (document.getElementById('FGD').checked) selectedValues.push(document.getElementById('FGD').value);

if(selectedValues.length < 2)
{
    document.getElementById("SelectionError").innerHTML = "Selected values are less than 2";
    event.preventDefault();
}
// ---------------------------------country validation-------------------------------
var country = document.getElementById("CountryName").value;
var isvalid = /^[A-Z]{3}$/.test(country);

if(!isvalid)
{
    document.getElementById("CountryError").innerHTML = "Country code should be 3 lettres all uppercase";
    event.preventDefault();
}
```