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# Validation of HTML Forms using JavaScript

## Code

### Prac.html

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta http-equiv="X-UA-Compatible" content="IE=edge">

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

<link href='https://fonts.googleapis.com/css?family=Ubuntu' rel='stylesheet'>

<link rel="stylesheet" href="PRAC\_7.css">

<title>Form Validation</title>

</head>

<body>

<div class="container">

<form action="#" name="myform">

<h1 style="text-align: center">VALIDATION FORM</h1>

<label for="fname">First name: </label><br>

<input type="text" name="fname" id="fname" required><br>

<label for="lname">Last name: </label><br>

<input type="text" name="lname" id="lname" required><br>

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

<input type="password" name="password" id="password" pattern="(?=.\*\d)(?=.\*[a-z])(?=.\*[A-Z]).{8,}" required><br>

<div id="message">

<h3>Password must contain the following:</h3>

<p id="letter" class="invalid">A <b>lowercase</b> letter</p>

<p id="capital" class="invalid">A <b>capital (uppercase)</b> letter</p>

<p id="number" class="invalid">A <b>number</b></p>

<p id="length" class="invalid">Minimum <b>8 characters</b></p>

</div>

<label for="age">Age: </label><br>

<input type="number" name="age" id="age" required><br>

<label for="age">Cell Number: </label><br>

<input type="number" name="Number" id="Number" minlength="10" required><br>

<input type="submit" value="SUBMIT" onclick="submitFunction()">

</form>

</div>

<script>

var myInput = document.getElementById("password");

var letter = document.getElementById("letter");

var capital = document.getElementById("capital");

var number = document.getElementById("number");

var length = document.getElementById("length");

// When the user clicks on the password field, show the message box

myInput.onfocus = function () {

document.getElementById("message").style.display = "block";

}

// When the user clicks outside of the password field, hide the message box

myInput.onblur = function () {

document.getElementById("message").style.display = "none";

}

// When the user starts to type something inside the password field

myInput.onkeyup = function () {

// Validate lowercase letters

var lowerCaseLetters = /[a-z]/g;

if (myInput.value.match(lowerCaseLetters)) {

letter.classList.remove("invalid");

letter.classList.add("valid");

} else {

letter.classList.remove("valid");

letter.classList.add("invalid");

}

// Validate capital letters

var upperCaseLetters = /[A-Z]/g;

if (myInput.value.match(upperCaseLetters)) {

capital.classList.remove("invalid");

capital.classList.add("valid");

} else {

capital.classList.remove("valid");

capital.classList.add("invalid");

}

// Validate numbers

var numbers = /[0-9]/g;

if (myInput.value.match(numbers)) {

number.classList.remove("invalid");

number.classList.add("valid");

} else {

number.classList.remove("valid");

number.classList.add("invalid");

}

// Validate length

if (myInput.value.length >= 8) {

length.classList.remove("invalid");

length.classList.add("valid");

} else {

length.classList.remove("valid");

length.classList.add("invalid");

}

}

function submitFunction() {

var x;

x = document.getElementById("age").value;

if (isNaN(x) || x < 18) {

alert("Age is not valid");

}

if(document.getElementById("Number").validity.rangeUnderflow) {

alert("invalid Number");

}

}

</script>

</body>

</html>

### Prac.css

\*{

margin: 0;

padding: 0;

}

body{

font-family: 'Ubuntu', sans-serif;

background: #4288c8;

display: flex;

justify-content: center;

align-items: center;

}

input {

width: 100%;

padding: 12px;

border: 1px solid #ccc;

border-radius: 4px;

box-sizing: border-box;

margin-top: 6px;

margin-bottom: 16px;

}

/\* Style the submit button \*/

input[type=submit] {

background-color: #EE4B2B;

color: white;

font-weight: bold;

}

input[type=submit]:hover {

color: black;

background-color: #880808;

}

/\* Style the container for inputs \*/

.container {

margin-top: 50px;

width: 85%;

background-color: #FFFFFF;

padding: 20px;

border-radius: 8px;

}

/\* The message box is shown when the user clicks on the password field \*/

#message {

display:none;

background: #f1f1f1;

color: #000;

position: relative;

padding: 20px;

margin-top: 10px;

}

#message p {

padding: 10px 35px;

font-size: 18px;

}

/\* Add a green text color and a checkmark when the requirements are right \*/

.valid {

color: green;

}

.valid:before {

position: relative;

left: -35px;

content: "✔";

}

/\* Add a red text color and an "x" when the requirements are wrong \*/

.invalid {

color: red;

}

.invalid:before {

position: relative;

left: -35px;

content: "✖";

}

## Output

