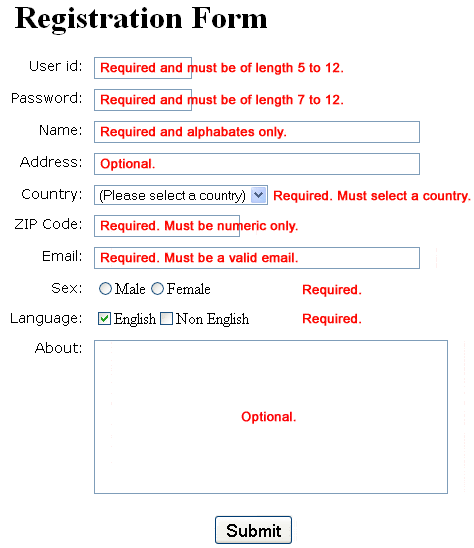
**JavaScript Form Validation using a Sample Registration Form**

## Description

In this document we have discussed JavaScript Form Validation using a sample registration form. The tutorial explores JavaScript validation on submit with detail explanation.

Following pictorial shows in which field, what validation we want to impose.



## How would we set those validations

We will create JavaScript functions (one for each input field whose value is to validated) which checks whether a value submitted by user passes the validation.

All those functions are called into another function.

It sets the focus to the input field until the user supplies a valid value.

When user does so, they may proceed and can supply value to the next available field.

The later JavaScript function created is called on onsubmit event of the form.

## HTML Code of the Sample Registration Form

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. <!DOCTYPE html>
2. <html lang="en"><head>
3. <meta charset="utf-8">
4. <title>JavaScript Form Validation using a sample registration form</title>
5. <meta name="keywords" content="example, JavaScript Form Validation, Sample registration form" />
6. <meta name="description" content="This document is an example of JavaScript Form Validation using a sample registration form. " />
7. <link rel='stylesheet' href='js-form-validation.css' type='text/css' />
8. <script src="sample-registration-form-validation.js"></script>
9. </head>
10. <body onload="document.registration.userid.focus();">
11. <h1>Registration Form</h1>
12. <p>Use tab keys to move from one input field to the next.</p>
13. <form name='registration' onSubmit="return formValidation();">
14. <ul>
15. <li><label for="userid">User id:</label></li>
16. <li><input type="text" name="userid" size="12" /></li>
17. <li><label for="passid">Password:</label></li>
18. <li><input type="password" name="passid" size="12" /></li>
19. <li><label for="username">Name:</label></li>
20. <li><input type="text" name="username" size="50" /></li>
21. <li><label for="address">Address:</label></li>
22. <li><input type="text" name="address" size="50" /></li>
23. <li><label for="country">Country:</label></li>
24. <li><select name="country">
25. <option selected="" value="Default">(Please select a country)</option>
26. <option value="AF">Australia</option>
27. <option value="AL">Canada</option>
28. <option value="DZ">India</option>
29. <option value="AS">Russia</option>
30. <option value="AD">USA</option>
31. </select></li>
32. <li><label for="zip">ZIP Code:</label></li>
33. <li><input type="text" name="zip" /></li>
34. <li><label for="email">Email:</label></li>
35. <li><input type="text" name="email" size="50" /></li>
36. <li><label id="gender">Sex:</label></li>
37. <li><input type="radio" name="msex" value="Male" /><span>Male</span></li>
38. <li><input type="radio" name="fsex" value="Female" /><span>Female</span></li>
39. <li><label>Language:</label></li>
40. <li><input type="checkbox" name="en" value="en" checked /><span>English</span></li>
41. <li><input type="checkbox" name="nonen" value="noen" /><span>Non English</span></li>
42. <li><label for="desc">About:</label></li>
43. <li><textarea name="desc" id="desc"></textarea></li>
44. <li><input type="submit" name="submit" value="Submit" /></li>
45. </ul>
46. </form>
47. </body>
48. </html>

sample-registration-form-validation.js is the external JavaScript file which contains the JavaScript ocde used to validate the form. js-form-validation.css is the stylesheet containing styles for the form. Notice that for validation, the JavaScript function containing the code to validate is called on the onSubmit event of the form.

For the sake of demonstration, we have taken five countries only. You may add any number of countries in the list.

## CSS Code of the Sample Registration Form

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. h1 {
2. margin-left: 70px;
3. }
4. form li {
5. list-style: none;
6. margin-bottom: 5px;
7. }
9. form ul li label{
10. float: left;
11. clear: left;
12. width: 100px;
13. text-align: right;
14. margin-right: 10px;
15. font-family:Verdana, Arial, Helvetica, sans-serif;
16. font-size:14px;
17. }
19. form ul li input, select, span {
20. float: left;
21. margin-bottom: 10px;
22. }
24. form textarea {
25. float: left;
26. width: 350px;
27. height: 150px;
28. }
30. [type="submit"] {
31. clear: left;
32. margin: 20px 0 0 230px;
33. font-size:18px
34. }
36. p {
37. margin-left: 70px;
38. font-weight: bold;
39. }

## JavaScript code for validation

## JavaScript function which is called on onSubmit

This function call all other functions used for validation.

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. function formValidation()
2. {
3. var uid = document.registration.userid;
4. var passid = document.registration.passid;
5. var uname = document.registration.username;
6. var uadd = document.registration.address;
7. var ucountry = document.registration.country;
8. var uzip = document.registration.zip;
9. var uemail = document.registration.email;
10. var umsex = document.registration.msex;
11. var ufsex = document.registration.fsex; if(userid\_validation(uid,5,12))
12. {
13. if(passid\_validation(passid,7,12))
14. {
15. if(allLetter(uname))
16. {
17. if(alphanumeric(uadd))
18. {
19. if(countryselect(ucountry))
20. {
21. if(allnumeric(uzip))
22. {
23. if(ValidateEmail(uemail))
24. {
25. if(validsex(umsex,ufsex))
26. {
27. }
28. }
29. }
30. }
31. }
32. }
33. }
34. }
35. return false;
36. }

## JavaScript function for validating userid

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. function userid\_validation(uid,mx,my)
2. {
3. var uid\_len = uid.value.length;
4. if (uid\_len == 0 || uid\_len >= my || uid\_len < mx)
5. {
6. alert("User Id should not be empty / length be between "+mx+" to "+my);
7. uid.focus();
8. return false;
9. }
10. return true;
11. }

The code above checks whether userid input field is provided with a string of length 5 to 12 characters. If not, it displays an alert.

## JavaScript function for validating password

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. function passid\_validation(passid,mx,my)
2. {
3. var passid\_len = passid.value.length;
4. if (passid\_len == 0 ||passid\_len >= my || passid\_len < mx)
5. {
6. alert("Password should not be empty / length be between "+mx+" to "+my);
7. passid.focus();
8. return false;
9. }
10. return true;
11. }

The above code used to validate password (it should be of length 7 to 12 characters). If not, it displays an alert.

## JavaScript code for validating user name

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. function allLetter(uname)
2. {
3. var letters = /^[A-Za-z]+$/;
4. if(uname.value.match(letters))
5. {
6. return true;
7. }
8. else
9. {
10. alert('Username must have alphabet characters only');
11. uname.focus();
12. return false;
13. }
14. }

The code above checks whether user name input field is provided with alphabates characters. If not, it displays an alert.

## JavaScript code for validating user address

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. function alphanumeric(uadd)
2. {
3. var letters = /^[0-9a-zA-Z]+$/;
4. if(uadd.value.match(letters))
5. {
6. return true;
7. }
8. else
9. {
10. alert('User address must have alphanumeric characters only');
11. uadd.focus();
12. return false;
13. }
14. }

The code above checks whether user address input field is provided with alphanumeric characters. If not, it displays an alert.

## JavaScript code for validating country

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. function countryselect(ucountry)
2. {
3. if(ucountry.value == "Default")
4. {
5. alert('Select your country from the list');
6. ucountry.focus();
7. return false;
8. }
9. else
10. {
11. return true;
12. }
13. }

The code above checks whether a country is selected from the given list. If not, then it displays an alert.

## JavaScript code for validating ZIP code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. function allnumeric(uzip)
2. {
3. var numbers = /^[0-9]+$/;
4. if(uzip.value.match(numbers))
5. {
6. return true;
7. }
8. else
9. {
10. alert('ZIP code must have numeric characters only');
11. uzip.focus();
12. return false;
13. }
14. }

The code above checks whether a ZIP code of numeric value. If not, it displays an alert.

## JavaScript code for validating email format

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. function ValidateEmail(uemail)
2. {
3. var mailformat = /^\w+([\.-]?\w+)\*@\w+([\.-]?\w+)\*(\.\w{2,3})+$/;
4. if(uemail.value.match(mailformat))
5. {
6. return true;
7. }
8. else
9. {
10. alert("You have entered an invalid email address!");
11. uemail.focus();
12. return false;
13. }
14. }

The code above checks whether a valid email format is supplied. If not,it displays an alert.

## JavaScript code for validating gender

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. function validsex(umsex,ufsex)
2. {
3. x=0;
5. if(umsex.checked)
6. {
7. x++;
8. } if(ufsex.checked)
9. {
10. x++;
11. }
12. if(x==0)
13. {
14. alert('Select Male/Female');
15. umsex.focus();
16. return false;
17. }
18. else
19. {
20. alert('Form Successfully Submitted');
21. window.location.reload()
22. return true;}
23. }

The code above checks whether a sex is selected. If not, it displays an alert. If Male or Female is selected, it generates an alert saying that the form is successfully submitted and it reloads the form.

And here is the entire JavaScript used for validation of the form.

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php)

1. function formValidation()
2. {
3. var uid = document.registration.userid;
4. var passid = document.registration.passid;
5. var uname = document.registration.username;
6. var uadd = document.registration.address;
7. var ucountry = document.registration.country;
8. var uzip = document.registration.zip;
9. var uemail = document.registration.email;
10. var umsex = document.registration.msex;
11. var ufsex = document.registration.fsex; if(userid\_validation(uid,5,12))
12. {
13. if(passid\_validation(passid,7,12))
14. {
15. if(allLetter(uname))
16. {
17. if(alphanumeric(uadd))
18. {
19. if(countryselect(ucountry))
20. {
21. if(allnumeric(uzip))
22. {
23. if(ValidateEmail(uemail))
24. {
25. if(validsex(umsex,ufsex))
26. {
27. }
28. }
29. }
30. }
31. }
32. }
33. }
34. }
35. return false;
37. } function userid\_validation(uid,mx,my)
38. {
39. var uid\_len = uid.value.length;
40. if (uid\_len == 0 || uid\_len >= my || uid\_len < mx)
41. {
42. alert("User Id should not be empty / length be between "+mx+" to "+my);
43. uid.focus();
44. return false;
45. }
46. return true;
47. }
48. function passid\_validation(passid,mx,my)
49. {
50. var passid\_len = passid.value.length;
51. if (passid\_len == 0 ||passid\_len >= my || passid\_len < mx)
52. {
53. alert("Password should not be empty / length be between "+mx+" to "+my);
54. passid.focus();
55. return false;
56. }
57. return true;
58. }
59. function allLetter(uname)
60. {
61. var letters = /^[A-Za-z]+$/;
62. if(uname.value.match(letters))
63. {
64. return true;
65. }
66. else
67. {
68. alert('Username must have alphabet characters only');
69. uname.focus();
70. return false;
71. }
72. }
73. function alphanumeric(uadd)
74. {
75. var letters = /^[0-9a-zA-Z]+$/;
76. if(uadd.value.match(letters))
77. {
78. return true;
79. }
80. else
81. {
82. alert('User address must have alphanumeric characters only');
83. uadd.focus();
84. return false;
85. }
86. }
87. function countryselect(ucountry)
88. {
89. if(ucountry.value == "Default")
90. {
91. alert('Select your country from the list');
92. ucountry.focus();
93. return false;
94. }
95. else
96. {
97. return true;
98. }
99. }
100. function allnumeric(uzip)
101. {
102. var numbers = /^[0-9]+$/;
103. if(uzip.value.match(numbers))
104. {
105. return true;
106. }
107. else
108. {
109. alert('ZIP code must have numeric characters only');
110. uzip.focus();
111. return false;
112. }
113. }
114. function ValidateEmail(uemail)
115. {
116. var mailformat = /^\w+([\.-]?\w+)\*@\w+([\.-]?\w+)\*(\.\w{2,3})+$/;
117. if(uemail.value.match(mailformat))
118. {
119. return true;
120. }
121. else
122. {
123. alert("You have entered an invalid email address!");
124. uemail.focus();
125. return false;
126. }
127. } function validsex(umsex,ufsex)
128. {
129. x=0;
131. if(umsex.checked)
132. {
133. x++;
134. } if(ufsex.checked)
135. {
136. x++;
137. }
138. if(x==0)
139. {
140. alert('Select Male/Female');
141. umsex.focus();
142. return false;
143. }
144. else
145. {
146. alert('Form Succesfully Submitted');
147. window.location.reload()
148. return true;
149. }
150. }

# JavaScript : HTML Form - Phone Number validation

## Description

Validating phone number is an important point while validating an HTML form. In this page we have discussed how to validate a phone number (in different format) using JavaScript :   
  
At first we validate a phone number of 10 digits with no comma, no spaces, no punctuation and there will be no + sign in front the number. Simply the validation will remove all non-digits and permit only phone numbers with 10 digits. Here is the function.

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/phone-no-validation.php)

1. function phonenumber(inputtxt)
2. {
3. var phoneno = /^\d{10}$/;
4. if((inputtxt.value.match(phoneno))
5. {
6. return true;
7. }
8. else
9. {
10. alert("message");
11. return false;
12. }
13. }

To valid a phone number like   
XXX-XXX-XXXX  
XXX.XXX.XXXX  
XXX XXX XXXX   
use the following code.

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/phone-no-validation.php)

1. function phonenumber(inputtxt)
2. {
3. var phoneno = /^\(?([0-9]{3})\)?[-. ]?([0-9]{3})[-. ]?([0-9]{4})$/;
4. if((inputtxt.value.match(phoneno))
5. {
6. return true;
7. }
8. else
9. {
10. alert("message");
11. return false;
12. }
13. }

If you want to use a + sign before the number in the following way  
+XX-XXXX-XXXX  
+XX.XXXX.XXXX  
+XX XXXX XXXX   
use the following code.

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/phone-no-validation.php)

1. function phonenumber(inputtxt)
2. {
3. var phoneno = /^\+?([0-9]{2})\)?[-. ]?([0-9]{4})[-. ]?([0-9]{4})$/;
4. if((inputtxt.value.match(phoneno))
5. {
6. return true;
7. }
8. else
9. {
10. alert("message");
11. return false;
12. }
13. }

Following code blocks contain actual codes for the said validations. We have kept the CSS code part common for all the validations.

## CSS Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/phone-no-validation.php)

1. li {list-style-type: none;
2. font-size: 16pt;
3. }
4. .mail {
5. margin: auto;
6. padding-top: 10px;
7. padding-bottom: 10px;
8. width: 400px;
9. background : #D8F1F8;
10. border: 1px soild silver;
11. }
12. .mail h2 {
13. margin-left: 38px;
14. }
15. input {
16. font-size: 20pt;
17. }
18. input:focus, textarea:focus{
19. background-color: lightyellow;
20. }
21. input submit {
22. font-size: 12pt;
23. }
24. .rq {
25. color: #FF0000;
26. font-size: 10pt;
27. }

## Validate a 10 digit phone number

At first we validate a phone number of 10 digit. For example 1234567890, 0999990011, 8888855555 etc.

## HTML Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/phone-no-validation.php)

1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4. <meta charset="utf-8">
5. <title>JavaScript form validation - checking non-empty</title>
6. <link rel='stylesheet' href='form-style.css' type='text/css' />
7. </head><br><body onload='document.form1.text1.focus()'>
8. <div class="mail">
9. <h2>Input an Phone No.[xxxxxxxxxx] and Submit</h2>
10. <form name="form1" action="#">
11. <ul>
12. <li><input type='text' name='text1'/></li>
13. <li>&nbsp;</li>
14. <li class="submit"><input type="submit" name="submit" value="Submit" onclick="phonenumber(document.form1.text1)"/></li>
15. <li>&nbsp;</li>
16. </ul>
17. </form>
18. </div>
19. <script src="phoneno-all-numeric-validation.js"></script>
20. </body>
21. </html>

## JavaScript Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/phone-no-validation.php)

1. function phonenumber(inputtxt)
2. {
3. var phoneno = /^\d{10}$/;
4. if(inputtxt.value.match(phoneno))
5. {
6. return true;
7. }
8. else
9. {
10. alert("Not a valid Phone Number");
11. return false;
12. }
13. }

[View the example in the browser](http://www.w3resource.com/javascript/form/example-javascript-form-validation-phoneno-allnumeric.html)

## Validate North American phone numbers

Now, let's see how to validate a phone number, either in 222-055-9034, 321.789.4512 FREE or 123 256 4587 format.

## HTML Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/phone-no-validation.php)

1. <!DOCTYPE html><br><html lang="en"><br><head>
2. <meta charset="utf-8">
3. <title>JavaScript form validation - checking non-empty</title>
4. <link rel='stylesheet' href='form-style.css' type='text/css' />
5. </head>
6. <body onload='document.form1.text1.focus()'>
7. <div class="mail">
8. <h2>Input an Phone No.[xxx-xxx-xxxx, xxx.xxx.xxxx, xxx xxx xxxx] and Submit</h2>
9. <form name="form1" action="#">
10. <ul>
11. <li><input type='text' name='text1'/></li>
12. <li>&nbsp;</li>
13. <li class="submit"><input type="submit" name="submit" value="Submit" onclick="phonenumber(document.form1.text1)"/></li>
14. <li>&nbsp;</li>
15. </ul>
16. </form>
17. </div>
18. <script src="phoneno-international-format.js"></script>
19. </body>
20. </html>

## JavaScript Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/phone-no-validation.php)

1. function phonenumber(inputtxt)
2. {
3. var phoneno = /^\(?([0-9]{3})\)?[-. ]?([0-9]{3})[-. ]?([0-9]{4})$/;
4. if(inputtxt.value.match(phoneno))
5. {
6. return true;<br>
7. }
8. else
9. {
10. alert("Not a valid Phone Number");
11. return false;
12. }
13. }

[View the example in the browser](http://www.w3resource.com/javascript/form/example-javascript-form-validation-phoneno-international.html)

## Validate an international phone number with country code

Now, let's see how to validate a phone number with country code, either in +24-0455-9034, +21.3789.4512 or +23 1256 4587 format.

## HTML Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/phone-no-validation.php)

1. <!DOCTYPE html><br><html lang="en"><br><head>
2. <meta charset="utf-8">
3. <title>JavaScript form validation - checking non-empty</title>
4. <link rel='stylesheet' href='form-style.css' type='text/css' />
5. </head>
6. <body onload='document.form1.text1.focus()'>
7. <div class="mail">
8. <h2>Input an Phone No.[+xx-xxxx-xxxx, +xx.xxxx.xxxx, +xx xxxx xxxx] and Submit</h2>
9. <form name="form1" action="#">
10. <ul>
11. <li><input type='text' name='text1'/></li>
12. <li>&nbsp;</li>
13. <li class="submit"><input type="submit" name="submit" value="Submit" onclick="phonenumber(document.form1.text1)"/></li>
14. <li>&nbsp;</li>
15. </ul>
16. </form>
17. </div>
18. <script src="phoneno-+international-format.js"></script>
19. </body>
20. </html>

## JavaScript Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/phone-no-validation.php)

1. function phonenumber(inputtxt)
2. {
3. var phoneno = /^\(?([0-9]{3})\)?[-. ]?([0-9]{3})[-. ]?([0-9]{4})$/;
4. if(inputtxt.value.match(phoneno))
5. {
6. return true;
7. }
8. else
9. {
10. alert("Not a valid Phone Number");
11. return false;
12. }
13. }

# JavaScript : HTML Form validation - checking for password

## Description

Sometimes a password validation in a form is essential. You can create a password in different ways, it's structure may be simple, reasonable or strong. Here we validate various type of password structure through JavaScript codes and regular expression.

* Check a password between 7 to 16 characters which contain only characters, numeric digits and underscore and first character must be a letter.
* Check a password between 6 to 20 characters which contain at least one numeric digit, one uppercase and one lowercase letter.
* Check a password between 7 to 15 characters which contain at least one numeric digit and a special character.
* Check a password between 8 to 15 characters which contain at least one lowercase letter, one uppercase letter, one numeric digit, and one special character.

Following code blocks contain actual codes for the said validations. We have kept the CSS code part common for all the validations.

## CSS Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/password-validation.php)

1. li {list-style-type: none;
2. font-size: 16pt;
3. }
4. .mail {
5. margin: auto;
6. padding-top: 10px;
7. padding-bottom: 10px;
8. width: 400px;
9. background : #D8F1F8;
10. border: 1px soild silver;
11. }
12. .mail h2 {
13. margin-left: 38px;
14. }
15. input {
16. font-size: 20pt;
17. }
18. input:focus, textarea:focus{
19. background-color: lightyellow;
20. }
21. input submit {
22. font-size: 12pt;
23. }
24. .rq {
25. color: #FF0000;
26. font-size: 10pt;
27. }

## To check a password between 7 to 16 characters which contain only characters, numeric digits, underscore and first character must be a letter

To validate the said format we use the regular expression ^[A-Za-z]\w{7,15}$, where \w matches any word character (alphanumeric) including the underscore (equivalent to [A-Za-z0-9\_]).  Next the match() method of string object is used to match the said regular expression against the input value. Here is the complete web document.

## HTML Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/password-validation.php)

1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4. <meta charset="utf-8">
5. title>JavaScript form validation - Password Checking - 1</title>
6. <link rel='stylesheet' href='form-style.css' type='text/css' />
7. </head>
8. <body onload='document.form1.text1.focus()'>
9. <div class="mail">
10. <h2>Input Password and Submit [7 to 15 characters which contain only characters, numeric digits, underscore and first character must be a letter]</h2
11. <form name="form1" action="#">
12. <ul>
13. <li><input type='text' name='text1'/></li>
14. <li class="rq">\*Enter numbers only.</li>
15. <li>&nbsp;</li>
16. <li class="submit"><input type="submit" name="submit" value="Submit" onclick="CheckPassword(document.form1.text1)"/></li>
17. <li>&nbsp;</li>
18. </ul>
19. </form>
20. </div>
21. <script src="check-password-1.js"></script>
22. </body>
23. </html>

## JavaScript Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/password-validation.php)

1. function CheckPassword(inputtxt)
2. {
3. var passw=  /^[A-Za-z]\w{7,14}$/;
4. if(inputtxt.value.match(passw))
5. {
6. alert('Correct, try another...')
7. return true;
8. }
9. else
10. {
11. alert('Wrong...!')
12. return false;
13. }
14. }

[View the example in the browser](http://www.w3resource.com/javascript/form/example1-javascript-form-validation-password.html)

## To check a password between 6 to 20 characters which contain at least one numeric digit, one uppercase and one lowercase letter

To validate the said format we use the regular expression ^(?=.\*\d)(?=.\*[a-z])(?=.\*[A-Z]).{4,8}$.  Next the match() method of string object is used to match the said regular expression against the input value. Here is the complete web document.

## HTML Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/password-validation.php)

1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4. <meta charset="utf-8">
5. <title>JavaScript form validation - Password Checking - 2</title>
6. <link rel='stylesheet' href='form-style.css' type='text/css' />
7. </head>
8. <body onload='document.form1.text1.focus()'>
9. <div class="mail">
10. <h2>Input Password and Submit [6 to 20 characters which contain at least one numeric digit, one uppercase and one lowercase letter]</h2>
11. <form name="form1" action="#">
12. <ul>
13. <li><input type='text' name='text1'/></li>
14. <li class="rq">\*Enter numbers only.</li>
15. <li>&nbsp;</li>
16. <li class="submit"><input type="submit" name="submit" value="Submit" onclick="CheckPassword(document.form1.text1)"/></li>
17. <li>&nbsp;</li>
18. </ul>
19. </form>
20. </div>
21. <script src="check-password-2.js"></script>
22. </body>
23. </html>

## JavaScript Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/password-validation.php)

1. function CheckPassword(inputtxt)
2. {
3. var passw = /^(?=.\*\d)(?=.\*[a-z])(?=.\*[A-Z]).{6,20}$/;
4. if(inputtxt.value.match(passw))
5. {
6. alert('Correct, try another...')
7. return true;
8. }
9. else
10. {
11. alert('Wrong...!')
12. return false;
13. }
14. }

[View the example in the browser](http://www.w3resource.com/javascript/form/example2-javascript-form-validation-password.html)

## To check a password between 7 to 15 characters which contain at least one numeric digit and a special character

To validate the said format we use the regular expression ^^(?=.\*[0-9])(?=.\*[!@#$%^&\*])[a-zA-Z0-9!@#$%^&\*]{7,15}$.  Next the match() method of string object is used to match the said regular expression against the input value. Here is the complete web document.

## HTML Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/password-validation.php)

1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4. <meta charset="utf-8">
5. <title>JavaScript form validation - Password Checking - 3</title>
6. <link rel='stylesheet' href='form-style.css' type='text/css' />
7. </head>
8. <body onload='document.form1.text1.focus()'>
9. <div class="mail">
10. <h2>Input Password and Submit [7 to 15 characters which contain at least one numeric digit and a special character]</h2>
11. <form name="form1" action="#">
12. <ul>
13. <li><input type='text' name='text1'/></li>
14. <li class="rq">\*Enter numbers only.</li>
15. <li>&nbsp;</li>
16. <li><input type="submit" name="submit" value="Submit" onclick="allnumericplusminus(document.form1.text1)" /></li>
17. <li>&nbsp;</li>
18. </ul>
19. </form>
20. </div>
21. <script src="check-password-3.js"></script>
22. </body>
23. </html>

## JavaScript Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/password-validation.php)

1. function CheckPassword(inputtxt)
2. {
3. var paswd=  /^(?=.\*[0-9])(?=.\*[!@#$%^&\*])[a-zA-Z0-9!@#$%^&\*]{7,15}$/;
4. if(inputtxt.value.match(paswd))
5. {
6. alert('Correct, try another...')
7. return true;
8. }
9. else
10. {
11. alert('Wrong...!')
12. return false;
13. }
14. }

[View the example in the browser](http://www.w3resource.com/javascript/form/example3-javascript-form-validation-password.html)

## To check a password between 8 to 15 characters which contain at least one lowercase letter, one uppercase letter, one numeric digit, and one special character

To validate the said format we use the regular expression ^(?=.\*\d)(?=.\*[a-z])(?=.\*[A-Z])(?=.\*[^a-zA-Z0-9])(?!.\*\s).{8,15}$.  Next the match() method of string object is used to match the said regular expression against the input value. Here is the complete web document.

## HTML Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/password-validation.php)

1. <!DOCTYPE html>
2. <html lang="en">
3. <head>
4. <meta charset="utf-8">
5. <title>JavaScript form validation - Password Checking - 4</title>
6. <link rel='stylesheet' href='form-style.css' type='text/css' />
7. </head>
8. <body onload='document.form1.text1.focus()'>
9. <div class="mail">
10. <h2>Input Password and Submit [8 to 15 characters which contain at least one lowercase letter, one uppercase letter, one numeric digit, and one special character]</h2>
11. <form name="form1" action="#">
12. <ul>
13. <li><input type='text' name='text1'/></li>
14. <li class="rq">\*Enter numbers only.</li>
15. <li>&nbsp;</li>
16. <li><input type="submit" name="submit" value="Submit" onclick="allnumericplusminus(document.form1.text1)" /></li>
17. <li>&nbsp;</li>
18. </ul>
19. </form>
20. </div>
21. <script src="check-password-4.js"></script>
22. </body>
23. </html>

## JavaScript Code

[view plaincopy to clipboardprint?](http://www.w3resource.com/javascript/form/password-validation.php)

1. function CheckPassword(inputtxt)
2. {
3. var decimal=  /^(?=.\*\d)(?=.\*[a-z])(?=.\*[A-Z])(?=.\*[^a-zA-Z0-9])(?!.\*\s).{8,15}$/;
4. if(inputtxt.value.match(decimal))
5. {
6. alert('Correct, try another...')
7. return true;
8. }
9. else
10. {
11. alert('Wrong...!')
12. return false;
13. }
14. }

## Data Format Validation

Now we will see how we can validate our entered form data before submitting it to the web server.

The following example shows how to validate an entered email address. An email address must contain at least a ‘@’ sign and a dot (.). Also, the ‘@’ must not be the first character of the email address, and the last dot must at least be one character after the ‘@’ sign.

### Example

Try the following code for email validation.

<script type="text/javascript">

<!--

function validateEmail()

{

var emailID = document.myForm.EMail.value;

atpos = emailID.indexOf("@");

dotpos = emailID.lastIndexOf(".");

if (atpos < 1 || ( dotpos - atpos < 2 ))

{

alert("Please enter correct email ID")

document.myForm.EMail.focus() ;

return false;

}

return( true );

}

//-->

</script>

Reference:

<http://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php>

<http://www.w3resource.com/javascript/form/phone-no-validation.php>

<http://www.w3resource.com/javascript/form/password-validation.php>

<http://www.tutorialspoint.com/javascript/javascript_form_validations.htm>