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

**JavaScript : HTML Form validation - checking for password**

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**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**

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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**

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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**

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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**

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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**

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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. }