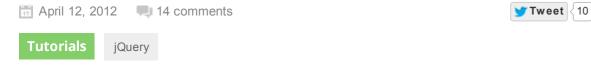




FORUMS

Password Strength Checking with jQuery



Password strength checking is an easy way to show the strength of user password on the registration forms. It helps users to choose more secure password when filling the forms.

In this tutorial we will build a basic form field that provides live feedback to the users about the password strength. The basic idea is to evaluate the password string every time a user enters a character. We will check the password strength using a few regular expressions with jQuery.



Demo

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Calculating the Password Strength:

We need to think of some rules for the password, so that we can evaluate the password strength based on those rules. So let's add some basic rules, for example:

If password is less than 6 characters, don't accept.

If the length of password is more than 6 characters, increase the strength value by +1.

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If the password contains lower and uppercase characters, +1.

If the password contains characters and numbers, +1.

If the password contains one special character, +1.

If the password contains two special characters, +1.

Based on above rules, we can calculate the password strength value and return the feedback to the user. Initially the password strength value is 0 and for each rule it fulfills, its value is increased by 1. We can assume that if it fulfills at least two rules (ie. its value is 2), it is good password. If its value is less than 2, we assume it is a weak password and if its value is more than 2, it is a strong password.

Let's start with the code.

Markup for the form:

Here is the basic HTML markup for the form having only one password field. The span #result contains the feedback of the password.

```
<form id="register">
2
        <label for="password">Password:</label>
       <input name="password" id="password" type="password"/>
3
        <span id="result"></span>
4
   </form>
```

CSS Styling:

Basic CSS code for the form layout:

```
#register {
 2
         margin-left:100px;
 3
 4
     #register label{
 5
 6
         margin-right:5px;
 8
     #register input {
10
         padding:5px 7px;
11
         border:1px solid #d5d9da;
12
         box-shadow: 0 0 5px #e8e9eb inset;
```



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```
width:250px;
13
14
         font-size:1em;
15
         outline:0;
16
17
18
     #result{
         margin-left:5px;
19
20
21
     #register .short{
22
         color:#FF0000;
23
24
25
     #register .weak{
26
27
         color:#E66C2C;
28
29
30
     #register .good{
         color:#2D98F3;
31
32
33
     #register .strong{
34
         color:#006400;
35
36
```

We have defined CSS classes short, weak, good and strong to show the feedback messages in different colors.

The jQuery Code:

The jQuery code starts with following:

```
$ (document) .ready(function() {
2
        //Code here
3
    });
```

Keyup event

We need to evaluate the password string as soon as the user enters a characters in the password field. So we will use a keyup event for the password input field, which is s triggered whenever the user pushes a key on the keyboard. It calls a function checkStrength by passing the password field value parameter, and appends the return value in the #result.

```
1 $('#password').keyup(function(){
2 $('#result').html(checkStrength($('#password').val()))
3 })
```

checkStrength Function

As we have used a function checkStrength above, lets start that function:,

```
1 function checkStrength(password){
2   //Code here
3 }
```

Set the initial value 0 for the strength:

```
1 var strength = 0
```

Checking the password rules

Now lets check if the first rule, if password length is less than 6 characters, we will just return the message that its too short. We want to display this error message in red font which we have defined in the css class .weak. So, we will remove any class attached to #result and add the css class .weak.

```
1 if (password.length < 6) {
2  $('#result').removeClass()
3  $('#result').addClass('short')
4  return 'Too short'
5 }</pre>
```

If the length is valid, we can continue to the next rule. As we have set the minimum requirement for the password 6 characters, so if the user password is 6 or 7 characters, we do not increase the strength value, but if it is more than 7 characters, we increase the strength of password by 1.

```
1 if (password.length > 7) strength += 1
```

Now, check if the password contains lower and uppercase characters, increase its value by 1.

```
if (password.match(/([a-zA-Z])/) && password.match(/([0-9])/)) strength += 1
```

If it has one special character, increase strength value by 1

```
if (password.match(/([!,%,&,@,\#,$,^,*,?,_,~])/)) strength += 1
```

If the password contains two special characters, increase strength value by 1 more

```
if (password.match(/(.*[!,%,&,@,#,$,^,*,?,_,~].*[!,%,&,@,#,$,^,*,?,_,~])/)) strength += 1
```

Ok, now we have calculated password strength value according to the above rules. We can return feedback messages according to the value. As I mentioned above that we will assume that password is weak if it has value less than 2. If it has value 2, it is good, and if it is more than 2, it is strong.

Following code checks if the strength is less than 2, it adds css class weak and returns the message 'Weak'. Similarly, if the value is 2, it adds the css class good, and returns the message 'Good'. If the value is more than two, it adds css class strong and returns the message 'Strong'.

```
if (strength < 2 ) {</pre>
 2
         $('#result').removeClass()
 3
         $('#result').addClass('weak')
         return 'Weak'
 4
     } else if (strength == 2 ) {
 5
 6
         $('#result').removeClass()
         $('#result').addClass('good')
 8
         return 'Good'
 9
     } else {
         $('#result').removeClass()
10
         $('#result').addClass('strong')
11
12
         return 'Strong'
13
```

That's all. Here's the full jQuery code:

```
$ (document).ready(function() {
1
2
3
        $ ('#password').keyup(function() {
4
            $('#result').html(checkStrength($('#password').val()))
5
        })
```

```
7
         function checkStrength(password){
 8
 9
         //initial strength
10
         var strength = 0
11
12
         //if the password length is less than 6, return message.
13
         if (password.length < 6) {</pre>
14
             $('#result').removeClass()
15
             $('#result').addClass('short')
16
             return 'Too short'
17
18
         //length is ok, lets continue.
19
20
21
         //if length is 8 characters or more, increase strength value
22
         if (password.length > 7) strength += 1
23
24
         //if password contains both lower and uppercase characters, increase strength value
         if (password.match(/([a-z].*[A-Z]))([A-Z].*[a-z])/)) strength += 1
25
26
         //if it has numbers and characters, increase strength value
27
28
         if (password.match(/([a-zA-Z])/) && password.match(/([0-9])/)) strength += 1
29
         //if it has one special character, increase strength value
30
         if (password.match(/([!,%,\&,@,#,$,^{\land},^{*},^{?},^{\land})/)) strength += 1
31
32
         //if it has two special characters, increase strength value
33
         if (password.match(/(.*[!,%,&,@,\#,$,^,*,?,,~].*[!,",%,&,@,\#,$,^,*,?,,,~])/)) strength
34
35
         //now we have calculated strength value, we can return messages
36
37
         //if value is less than 2
38
39
         if (strength < 2 ) {</pre>
40
             $('#result').removeClass()
41
             $('#result').addClass('weak')
42
             return 'Weak'
```

```
} else if (strength == 2 ) {
43
             $('#result').removeClass()
44
             $('#result').addClass('good')
45
46
             return 'Good'
47
         } else {
             $('#result').removeClass()
48
49
             $('#result').addClass('strong')
             return 'Strong'
50
51
52
53
    });
```

That's all. We have used only a few basic rules to evaluate password strength, you can change them and add more complex rules if you want to.

12 comments



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Guest ⋅ 4 months ago Showing me Parser Error, How can i resolve it



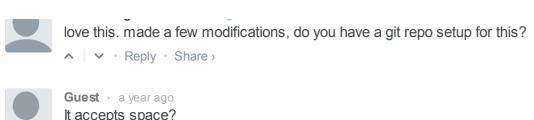
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FriedFish • 5 months ago

when i erase all the text from the password text box, still i get a message of Too Short. What should i do so that erases the message too at the end. I hope you got my question.

```
Allilleu 7 Fileurisii • a ilioliul ayo
      You may use this code:
      //if the password length is less than 6, return message.
      if (password.length < 6 && password.length != 0) {
      $('#passstrength_result').removeClass()
      $('#passstrength result').addClass('short')
      return 'Too short'
      //if no password is given.
      if (password.length == 0) {
      $('#passstrength_result').removeClass()
      return "
      xavor Mod → FriedFish · 5 months ago
      You can make it return empty string:)
      1 ^ Reply · Share >
sandeep • 6 months ago
thanks a lot....
Neel ⋅ 6 months ago
really simplifies and gives great control over valiadtion
Anna Khiger • 8 months ago
Thank you!
jahdakine • 10 months ago
Plugged this into Bootstraps progress bars. Cool!
```





It accepts space?





mintik • a year ago Very useful for login form. Thanks.





yashwanth • a year ago good





DIS

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