

Write a program to create and Build a Password Strength Check using JQuery.

P5.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Password Strength Checker</title>
<style>
.password-strength {
  margin-top: 10px;
  padding: 5px;
  width: 250px;
  font-size: 14px;
}
.strength-meter {
  height: 20px;
  margin-top: 15px;
}
.very-weak { background-color: #ff4d4d; }
.weak { background-color: #ffa500; }
.medium { background-color: #ffd700; }
.strong { background-color: #7fff00; }
.very-strong { background-color: #00ff00; }
</style>
</head>
<body>

<div>
  <label for="password">Enter your password:</label>
  <input type="password" id="password" name="password" />
</div>

<div class="password-strength">
  <div class="strength-meter"></div>
</div>

<script src="https://code.jquery.com/jquery-3.6.0.min.js"></script>
<script src="strengthchecker.js"></script>

</body>
</html>
```

strengthchecker.js

```
$(document).ready(function() {
    $('#password').on('input', function() {
        var password = $(this).val();
        var meter = $('.strength-meter');
        var strength = 0;
        var progressClass = "";

        // Check length
        if (password.length > 8) {
            strength += 1;
        }

        // Check if password contains uppercase letter
        if (password.match(/[A-Z]/)) {
            strength += 1;
        }

        // Check if password contains lowercase letter
        if (password.match(/[a-z]/)) {
            strength += 1;
        }

        // Check if password contains number
        if (password.match(/\d/)) {
            strength += 1;
        }

        // Check if password contains special character
        if (password.match(/[!@#$%^&*(),.?":{}|<>]/)) {
            strength += 1;
        }

        // Determine progress bar class
        switch(strength) {
            case 0: progressClass = 'very-weak'; break;
            case 1: progressClass = 'weak'; break;
            case 2: progressClass = 'medium'; break;
            case 3: progressClass = 'strong'; break;
            case 4: progressClass = 'very-strong'; break;
            default: progressClass = 'very-weak';
        }
    });
});
```

```
// Update progress bar
meter.removeClass().addClass('strength-meter').addClass(progressClass);
});
});
```