

Database Names

Use sqlite3 engine

1. **sw.db** - Switch Status
2. **light.db** - Light status

Schema

All tables use same schema

```
CREATE TABLE tb(id INTEGER PRIMARY KEY AUTOIN-  
CREMENT, time STRING, status STRING);
```

Functionality

1. When switch is pressed update time and status columns of sw.db
 - time - current time stamp
 - status - on/off
2. The color around Switch depends on string value in status column of light.led (order by date) as follows:
 - Green - on
 - Red - off

Sample PHP code

```
<!DOCTYPE html>  
<html>  
  <head>  
    <meta name="viewport" content="width=device-width, initial-scale=1">  
    <meta http-equiv="refresh" content="3">  
    <link rel="stylesheet" href="http://maxcdn.bootstrapcdn.com/bootstrap/3.2.0/css/bootst<br>  
    <link rel="stylesheet" href="table.css">  
  
  </head>  
  
  <body>  
    <?php  
$db = new SQLite3('/home/pi/Desktop/PowerMeter/database.db');  
  
$results = $db->query('select * from backfill order by time desc limit 1');  
  
?>
```

```

<div class="container">

    <table class="table">
        <thead>
            <tr>
                <th>#</th>
                <th>Time</th>
                <th>Consumption</th>
            </tr>
        </thead>
        <tbody>
<?php while ($row = $results->fetchArray()) { ?>
    <tr>
        <td><?php echo 1?></td>
        <td><?php echo $row['time'] ?></td>
        <td><?php echo $row['power'] ?></td>
    </tr>

<?php } ?>

        </tbody>
    </table>
</div>

<script src="https://ajax.googleapis.com/ajax/libs/jquery/1.11.1/jquery.min.js"></script>
<script src="http://maxcdn.bootstrapcdn.com/bootstrap/3.2.0/js/bootstrap.min.js"></script>
</body>

</html>

```