

```

1  <!--calculateScore.php-->
2
3  <?php
4
5      //start connection and session
6
7      session_start();
8      include 'Connect.php';
9
10     //get current value of session variable time and set as $usertime
11
12     $usertime = $_SESSION['time'];
13
14     //begin for loop for 1 to 10
15
16     for ($count = 1; $count <= 10; $count+=1){
17         //set $postVal as conjunction of "ans" and $count - this corresponds to a name
18         //of the radio buttons in the quiz
19
20         $postVal = "ans" . $count;
21
22         //if $postVal is undefined (so, no answers given), add "" to array $answers[]
23
24         if (!isset($_POST["$postVal"])){
25             $answers[] = "";
26         }
27
28         //else, add the value of the radio button to the array $answers[]
29
30         else {
31             $answers[] = $_POST["$postVal"];
32         };
33     };
34
35     //initialise $score and $iterationVal as 0
36     $score = 0;
37     $iterationVal = 0;
38
39     //for each item in the array $answers[]...
40
41     foreach ($answers as $val){
42
43         //add 1 to $iterationVal
44
45         $iterationVal = $iterationVal + 1;
46
47         //when an answer is given (so, the array item for $answers[] is not empty)...
48
49         if(!$val == ""){
50             //check if answer is correct and if so, add 1 to $score
51
52             $sqlAns = "select answer from question where questionID = $iterationVal";
53             $result = mysqli_query($conn,$sqlAns);
54             while ($row = mysqli_fetch_assoc($result)) {
55                 $rightAns = $row["answer"];
56                 if (strpos($rightAns, $val) == 0){
57                     $score = $score + 1;
58                 };
59             };
60         };
61
62         //if user completed quiz before countdown reached 69000ms, multiply score by 2
63
64         if ($usertime >= 70000){
65             $score *= 2;
66
67             //if user completed quiz when countdown was between 69000ms and 31000ms, multiply
68             //score by 1.5
69
70             } elseif($usertime >= 31000 and $usertime <=69000){
71                 $score *=1.5;

```

```
71         round($score);
72
73         //if user completed quiz when countdown was between 10000ms and 30000ms, multiply
score by 1.25
74
75     } elseif($usertime >= 10000 and $usertime <=30000){
76         $score *=1.25;
77         round($score);
78
79         //else, multiply score by 1
80
81     } else {
82         $score *= 1;
83     };
84
85     //call updateLeaderboard for execution
86
87     require 'updateLeaderboard.php';
88
89     //redirect to Leaderboard page
90
91     header('Location:http://localhost/PROJECT/Leaderboard.php');
92
93     //close connection
94
95     mysqli_close($conn);
96
97     ?>
98
```

```
1  <!--Connect.php-->
2
3  <?php
4
5      //assign server-side variables
6
7      $server="localhost";
8      $serverUser="root";
9      $serverPass="";
10     $db="quizsite";
11
12     //establish connection to database server
13
14     $conn = mysqli_connect($server,$serverUser,$serverPass,$db);
15
16     // on connection failure, exit script and echo error message
17
18     if (!$conn) {
19         die("Connection failed." . mysqli_connect_error());
20     };
21
22     ?>
```

```

1  <!--getQuestions.php-->
2
3  <?php
4
5      //start connection
6
7      include 'PHPcode/Connect.php';
8
9      //select all from table question
10
11     $sql="SELECT * FROM question";
12     $result = mysqli_query($conn,$sql);
13
14     //for each row on the question table...
15
16     while($row = mysqli_fetch_array($result)) {
17
18         //set up div elements for each question. default visibility is none
19
20
21         echo "<div id='q' . $row['questionID']. " " class='question'
22         style='display:none;'>";
23
24         //echo question number and title
25
26         echo "Q" . $row['questionID'] . ": " . $row['questionTitle'] . "<br>";
27
28         //echo each distractor - multiple-choice choices
29
30         echo "<input type='radio' name='ans' . $row['questionID']. " " value='" .
31         $row['distractor1'] . ">" . $row['distractor1'] . "<br>";
32         echo "<input type='radio' name='ans' . $row['questionID']. " " value='" .
33         $row['distractor2'] . ">" . $row['distractor2'] . "<br>";
34         echo "<input type='radio' name='ans' . $row['questionID']. " " value='" .
35         $row['distractor3'] . ">" . $row['distractor3'] . "<br>";
36         echo "<input type='radio' name='ans' . $row['questionID']. " " value='" .
37         $row['distractor4'] . ">" . $row['distractor4'] . "<br>";
38         echo "</div>";
39         };
40
41     //close connection
42
43     mysqli_close($conn);
44
45     ?>

```

```

1  <!--Home.php-->
2
3  <html>
4  <?php
5
6      //start session
7
8      session_start();
9
10  ?>
11
12  <head>
13      <title>Home</title>
14      <link rel="stylesheet" type="text/css" href="quizStyle.css">
15  </head>
16
17  <body>
18
19      <header>
20          <h1>Quiz Site</h1>
21          <nav>
22              <ul>
23                  <li><a href="Home.php">Home</a></li>
24                  <li><a href="QuizEnter.html">Take the quiz</a></li>
25                  <li><a href="Login.php">Login</a></li>
26                  <li><a href="Register.php">Register</a></li>
27                  <li><a href="Logout.php">Logout</a></li>
28              </ul>
29          </nav>
30      </header>
31
32      <main>
33
34      <div>
35
36          <?php
37
38              //if account is in use, echo personalised message. else, do not.
39
40              if (!isset($_SESSION['currentUser'])) {
41                  echo "<h1>Welcome</h1>";
42              }
43              else {
44                  echo "<h1>Welcome " . $_SESSION['currentUser'] . "</h1>";
45              };
46          ?>
47
48          You might be wise, but are you swift?
49          On this site, you will be trying to beat the clock to answer as many
          questions as possible! You will be competing against other players to see
          how quick-witted you really are!
50          <br>Be sure to register or log into your account so you can take the quiz!
51
52      </div>
53
54  </main>
55
56  <footer>
57      <a href="Home.php">
58          
60      </a>
61  </footer>
62
63  </body>
64
65  </html>

```

```
1  <!--Leaderboard.php-->
2
3  <html>
4
5      <head>
6          <title>Leaderboard</title>
7          <link rel="stylesheet" type="text/css" href="quizStyle.css">
8      </head>
9
10     <body>
11
12         <header>
13             <h1>Quiz Site</h1>
14             <nav>
15                 <ul>
16                     <li><a href="Home.php">Home</a></li>
17                     <li><a href="QuizEnter.html">Take the quiz</a></li>
18                     <li><a href="Login.php">Login</a></li>
19                     <li><a href="Register.php">Register</a></li>
20                     <li><a href="Logout.php">Logout</a></li>
21                 </ul>
22             </nav>
23         </header>
24
25         <main>
26
27             <div>
28
29                 <h1>Leaderboard</h1>
30
31                 <?php
32
33                     //on page load, call sortLeaderboard.php to execute
34
35                     include 'PHPcode/sortLeaderboard.php';
36
37                 ?>
38
39             </div>
40
41         </main>
42
43
44         <footer>
45             <a href="Home.php">
46                 
48             </a>
49         </footer>
50     </body>
51
52 </html>
```

```

1  <!--Login.php-->
2
3  <html>
4
5      <?php
6
7          //start session
8          session_start();
9
10         //if account is in use, redirect to onAccount.php
11
12         if (isset($_SESSION['currentUser'])) {
13             header('Location:http://localhost/PROJECT/onAccount.php');
14         };
15
16     ?>
17
18 <head>
19     <title>Login</title>
20     <link rel="stylesheet" type="text/css" href="quizStyle.css">
21 </head>
22
23 <body>
24
25     <header>
26         <h1>Quiz Site</h1>
27         <nav>
28             <ul>
29                 <li><a href="Home.php">Home</a></li>
30                 <li><a href="QuizEnter.html">Take the quiz</a></li>
31                 <li><a href="Login.php">Login</a></li>
32                 <li><a href="Register.php">Register</a></li>
33                 <li><a href="Logout.php">Logout</a></li>
34             </ul>
35         </nav>
36     </header>
37
38     <main>
39         <div>
40             <h1>Login</h1>
41             <form action="http://localhost/PROJECT/PHPcode/loginUser.php"
42                 method="post">
43                 Username: <input type="text" name="loginUser" required>
44                 <br>Password: <input type="password" name="loginPass"
45                     required><br><br>
46                 <input type="submit" id="formbutton">
47             </form>
48             <i><a href="Register.php">Not a user? Register here.</a></i>
49         </div>
50     </main>
51
52     <footer>
53         <a href="Home.php">
54             
56         </a>
57     </footer>
58
59 </body>
60
61 </html>

```

```
1  <!--loginUnsuccessful.html-->
2
3  <html>
4
5  <!--Error page for when user tries to log into an account that does not exist on the
   user table-->
6
7  <head>
8      <title>Error</title>
9      <link rel="stylesheet" type="text/css" href="quizStyle.css">
10 </head>
11
12 <body>
13
14     <header>
15         <h1>Quiz Site</h1>
16         <nav>
17             <ul>
18                 <li><a href="Home.php">Home</a></li>
19                 <li><a href="QuizEnter.html">Take the quiz</a></li>
20                 <li><a href="Login.php">Login</a></li>
21                 <li><a href="Register.php">Register</a></li>
22                 <li><a href="Logout.php">Logout</a></li>
23             </ul>
24         </nav>
25     </header>
26
27     <main>
28
29     <div>
30         <h1>Error</h1>
31         Sorry, but we couldn't find your account.
32         <br><br><i><a href="Login.php">Login again.</a></i>
33         <br><i><a href="Register.php">Not a user? Register here.</a></i>
34     </div>
35
36 </main>
37
38 <footer>
39     <a href="Home.php">
40         
42     </a>
43 </footer>
44 </body>
45
46 </html>
```



```
1 <!--loginUser.php-->
2
3 <?php
4
5     //start connection and session
6
7     session_start();
8     include 'Connect.php';
9
10    //get form inputs via post
11
12    $username = $_POST["loginUser"];
13    $password = $_POST["loginPass"];
14
15    //if any of form inputs are not alphanumeric, redirect back to Login.php with
    error message in header
16
17    if (!ctype_alnum($username) || !ctype_alnum($password)) {
18
19        header("Location:../Login.php?error=invalidfields&username=".$username."&password=".$password);
20        exit();
21    };
22
23    //get user details from user table for when username and password corresponds to
    the form inputs
24
25    $sql = "SELECT * FROM user WHERE username='$username' and password='$password'";
26    $result = mysqli_query($conn,$sql);
27
28    //get number of rows returned by query
29
30    $count=mysqli_num_rows($result);
31
32    //for each row returned and when rows returned is 1
33
34    while($row=mysqli_fetch_array($result,MYSQLI_ASSOC) AND $count="1"){
35
36        //set session variable current user as the username returned by the query
37
38        $_SESSION['currentUser']=$row['username'];
39
40        //redirect to home page
41
42        header('Location:http://localhost/PROJECT/Home.php');
43    };
44
45    //if rows returned is not 1, redirect to loginUnsuccessful page
46
47    if($count != "1") {
48        header('Location:http://localhost/PROJECT/loginUnsuccessful.html');
49    };
50
51    //close connection
52
53    mysqli_close($conn);
54
55    ?>
56
57
58
59
60
```

```
1  <!--Logout.php-->
2
3  <html>
4  <?php
5
6      //start session
7
8      session_start();
9
10     ?>
11
12     <head>
13         <title>Logout</title>
14         <link rel="stylesheet" type="text/css" href="quizStyle.css">
15     </head>
16
17     <body>
18
19         <header>
20             <h1>Quiz Site</h1>
21             <nav>
22                 <ul>
23                     <li><a href="Home.php">Home</a></li>
24                     <li><a href="QuizEnter.html">Take the quiz</a></li>
25                     <li><a href="Login.php">Login</a></li>
26                     <li><a href="Register.php">Register</a></li>
27                     <li><a href="Logout.php">Logout</a></li>
28                 </ul>
29             </nav>
30         </header>
31
32         <main>
33             <div>
34
35                 <h1>Logout</h1>
36
37                 <?php
38
39                     //if account is in use, end current session. else, do not.
40
41                     if (isset($_SESSION['currentUser'])) {
42                         echo "Logout successful!";
43                         session_unset();
44                         session_destroy();
45                     }
46                     else {
47                         echo "No account in use.";
48                     }
49                 ?>
50
51             </div>
52
53         </main>
54
55         <footer>
56             <a href="Home.php">
57                 
59             </a>
60         </footer>
61     </body>
62
63 </html>
```

```
1 <!--newUser.php-->
2
3 <?php
4
5 //start connection and session
6
7 session_start();
8 include 'Connect.php';
9
10 //get form inputs via post
11
12 $username = $_POST["user"];
13 $password = $_POST["pass"];
14
15 //if any of form inputs are not alphanumeric, redirect back to Login.php with
    error message in header
16
17 if (!ctype_alnum($username) || !ctype_alnum($password)) {
18
19     header("Location: ../Register.php?error=invalidfields&username=".$username."&pas
        sword");
20     exit();
21 };
22
23 //query to see if form input for user is on the user table
24
25 $validationSQL = "SELECT username FROM user WHERE username='$username'";
26 $validationResult = mysqli_query($conn,$validationSQL);
27
28 //if query returns rows, then set userError as true (for error message) and
    redirect to register page
29
30 if (mysqli_num_rows($validationResult)>0) {
31     $_SESSION['userError'] = True;
32     header('Location: http://localhost/PROJECT/Register.php');
33 }
34
35 else {
36
37     //insert form inputs into the user table as username and password
38
39     $sql = "INSERT INTO user(username,password) VALUES('$username', '$password')";
40     $result = mysqli_query($conn,$sql);
41
42     //set session variable current user as the form input for user
43
44     $_SESSION['currentUser']=$username;
45
46     //redirect to home page
47
48     header('Location: http://localhost/PROJECT/Home.php');
49 };
50
51 //close connection
52
53 mysqli_close($conn);
54
55 ?>
56
57
58
59
60
61
62
63
```

```
1  <!--noAccount.html-->
2
3  <html>
4
5  <!--Error page for when user tries to take quiz without an account-->
6
7  <head>
8      <title>Error</title>
9      <link rel="stylesheet" type="text/css" href="quizStyle.css">
10 </head>
11
12 <body>
13
14     <header>
15         <h1>Quiz Site</h1>
16         <nav>
17             <ul>
18                 <li><a href="Home.php">Home</a></li>
19                 <li><a href="QuizEnter.html">Take the quiz</a></li>
20                 <li><a href="Login.php">Login</a></li>
21                 <li><a href="Register.php">Register</a></li>
22                 <li><a href="Logout.php">Logout</a></li>
23             </ul>
24         </nav>
25     </header>
26
27     <main>
28         <div>
29             <h1>Error</h1>
30             Sorry, but you can't take the quiz without an account.
31             <br><br><i><a href="Login.php">Already a user? Login here.</a></i>
32             <br><i><a href="Register.php">Not a user? Register here.</a></i>
33         </div>
34     </main>
35
36     <footer>
37         <a href="Home.php">
38             
40         </a>
41     </footer>
42 </body>
43
44 </html>
```

```

1  <!--onAccount.php-->
2
3  <html>
4
5  <!--Error page for when user tries to log in/register when on an account-->
6
7  <?php
8  session_start()
9  ?>
10
11 <head>
12     <title>Error</title>
13     <link rel="stylesheet" type="text/css" href="quizStyle.css">
14 </head>
15
16 <body>
17
18     <header>
19         <h1>Quiz Site</h1>
20         <nav>
21             <ul>
22                 <li><a href="Home.php">Home</a></li>
23                 <li><a href="QuizEnter.html">Take the quiz</a></li>
24                 <li><a href="Login.php">Login</a></li>
25                 <li><a href="Register.php">Register</a></li>
26                 <li><a href="Logout.php">Logout</a></li>
27             </ul>
28         </nav>
29     </header>
30
31     <main>
32         <div>
33             <h1>Error</h1>
34
35             <?php
36
37                 //echo error message based on the account in use
38
39                 echo "Sorry, but it appears you are already logged in as the user " .
40                     $_SESSION['currentUser'] . ".";
41
42             ?>
43
44             <br><br><i><a href="Logout.php">Click here to log out.</a></i>
45         </div>
46     </main>
47
48     <footer>
49         <a href="Home.php">
50             
52         </a>
53     </footer>
54
55 </body>
56
57 </html>

```

```

1  <!--Quiz.php-->
2
3  <html>
4      <?php
5
6          //start session
7          session_start();
8
9          //if no account is in use, redirecrt to noAccount page
10
11         if (!isset($_SESSION['currentUser'])) {
12             header('Location:http://localhost/PROJECT/noAccount.html');
13         };
14
15         //set up session variable time as 90000(ms)
16         $_SESSION["time"] = 90000;
17     ?>
18     <head>
19         <title>Quiz</title>
20         <link rel="stylesheet" type="text/css" href="quizStyle.css">
21         <script>
22
23             //when the corresponding button is pressed, show the corresponding
24             question and hide all other
25             //questions
26
27             function showQ1 () {
28                 document.getElementById("q1").style.display = "block";
29                 document.getElementById("q2").style.display = "none";
30                 document.getElementById("q3").style.display = "none";
31                 document.getElementById("q4").style.display = "none";
32                 document.getElementById("q5").style.display = "none";
33                 document.getElementById("q6").style.display = "none";
34                 document.getElementById("q7").style.display = "none";
35                 document.getElementById("q8").style.display = "none";
36                 document.getElementById("q9").style.display = "none";
37                 document.getElementById("q10").style.display = "none";
38             }
39
40             function showQ2 () {
41                 document.getElementById("q1").style.display = "none";
42                 document.getElementById("q2").style.display = "block";
43                 document.getElementById("q3").style.display = "none";
44                 document.getElementById("q4").style.display = "none";
45                 document.getElementById("q5").style.display = "none";
46                 document.getElementById("q6").style.display = "none";
47                 document.getElementById("q7").style.display = "none";
48                 document.getElementById("q8").style.display = "none";
49                 document.getElementById("q9").style.display = "none";
50                 document.getElementById("q10").style.display = "none";
51             }
52
53             function showQ3 () {
54                 document.getElementById("q1").style.display="none";
55                 document.getElementById("q2").style.display = "none";
56                 document.getElementById("q3").style.display = "block";
57                 document.getElementById("q4").style.display = "none";
58                 document.getElementById("q5").style.display = "none";
59                 document.getElementById("q6").style.display = "none";
60                 document.getElementById("q7").style.display = "none";
61                 document.getElementById("q8").style.display = "none";
62                 document.getElementById("q9").style.display = "none";
63                 document.getElementById("q10").style.display = "none";
64             }
65
66             function showQ4 () {
67                 document.getElementById("q1").style.display = "none";
68                 document.getElementById("q2").style.display = "none";
69                 document.getElementById("q3").style.display = "none";
70                 document.getElementById("q4").style.display = "block";
71                 document.getElementById("q5").style.display = "none";
72                 document.getElementById("q6").style.display = "none";

```

```

72         document.getElementById("q7").style.display = "none";
73         document.getElementById("q8").style.display = "none";
74         document.getElementById("q9").style.display = "none";
75         document.getElementById("q10").style.display = "none";
76     }
77
78     function showQ5 () {
79         document.getElementById("q1").style.display = "none";
80         document.getElementById("q2").style.display = "none";
81         document.getElementById("q3").style.display = "none";
82         document.getElementById("q4").style.display = "none";
83         document.getElementById("q5").style.display = "block";
84         document.getElementById("q6").style.display = "none";
85         document.getElementById("q7").style.display = "none";
86         document.getElementById("q8").style.display = "none";
87         document.getElementById("q9").style.display = "none";
88         document.getElementById("q10").style.display = "none";
89     }
90
91     function showQ6 () {
92         document.getElementById("q1").style.display = "none";
93         document.getElementById("q2").style.display = "none";
94         document.getElementById("q3").style.display = "none";
95         document.getElementById("q4").style.display = "none";
96         document.getElementById("q5").style.display = "none";
97         document.getElementById("q6").style.display = "block";
98         document.getElementById("q7").style.display = "none";
99         document.getElementById("q8").style.display = "none";
100        document.getElementById("q9").style.display = "none";
101        document.getElementById("q10").style.display = "none";
102    }
103
104    function showQ7 () {
105        document.getElementById("q1").style.display = "none";
106        document.getElementById("q2").style.display = "none";
107        document.getElementById("q3").style.display = "none";
108        document.getElementById("q4").style.display = "none";
109        document.getElementById("q5").style.display = "none";
110        document.getElementById("q6").style.display = "none";
111        document.getElementById("q7").style.display = "block";
112        document.getElementById("q8").style.display = "none";
113        document.getElementById("q9").style.display = "none";
114        document.getElementById("q10").style.display = "none";
115    }
116
117    function showQ8 () {
118        document.getElementById("q1").style.display = "none";
119        document.getElementById("q2").style.display = "none";
120        document.getElementById("q3").style.display = "none";
121        document.getElementById("q4").style.display = "none";
122        document.getElementById("q5").style.display = "none";
123        document.getElementById("q6").style.display = "none";
124        document.getElementById("q7").style.display = "none";
125        document.getElementById("q8").style.display = "block";
126        document.getElementById("q9").style.display = "none";
127        document.getElementById("q10").style.display = "none";
128    }
129
130    function showQ9 () {
131        document.getElementById("q1").style.display = "none";
132        document.getElementById("q2").style.display = "none";
133        document.getElementById("q3").style.display = "none";
134        document.getElementById("q4").style.display = "none";
135        document.getElementById("q5").style.display = "none";
136        document.getElementById("q6").style.display = "none";
137        document.getElementById("q7").style.display = "none";
138        document.getElementById("q8").style.display = "none";
139        document.getElementById("q9").style.display = "block";
140        document.getElementById("q10").style.display = "none";
141    }
142
143    function showQ10 () {

```

```

144         document.getElementById("q1").style.display = "none";
145         document.getElementById("q2").style.display = "none";
146         document.getElementById("q3").style.display = "none";
147         document.getElementById("q4").style.display = "none";
148         document.getElementById("q5").style.display = "none";
149         document.getElementById("q6").style.display = "none";
150         document.getElementById("q7").style.display = "none";
151         document.getElementById("q8").style.display = "none";
152         document.getElementById("q9").style.display = "none";
153         document.getElementById("q10").style.display = "block";
154     }
155 </script>
156 </head>
157
158 <body>
159     <header>
160         <h1>Quiz Site</h1>
161         <nav>
162             <ul>
163                 <li><a href="Home.php">Home</a></li>
164                 <li><a href="QuizEnter.html">Take the quiz</a></li>
165                 <li><a href="Login.php">Login</a></li>
166                 <li><a href="Register.php">Register</a></li>
167                 <li><a href="Logout.php">Logout</a></li>
168             </ul>
169         </nav>
170     </header>
171
172     <main>
173         <div>
174             <h1>Quiz</h1>
175             <h2 id="countdownDisplay"></h2>
176
177             <script type="text/javascript">
178                 var count = 90000;
179
180                 //every 1000ms, do this...
181
182                 var phpTime = setInterval(function(){
183
184                     //when count reaches 0, clear the interval
185
186                     if (count == 0) {
187                         clearInterval(phpTime);
188                     } else {
189
190                         //else, take 1000(ms) from count
191
192                         count = count - 1000;
193
194                         //run and return result from response.php every 1000ms
195
196                         var xmlhttp = new XMLHttpRequest();
197                         xmlhttp.open("GET", "PHPcode/response.php", false);
198                         xmlhttp.send(null);
199
200                     };
201                 },1000)
202
203                 //set quizTime as 90000 plus 1000 (as display takes 1000ms
204                 //to load)
205
206                 var quizTime = 90000 + 1000
207
208                 //for every 1000ms, do this...
209
210                 var timer = setInterval(function(){
211
212                     //get timeLeft , which is quizTime take 1000
213
214                     var timeLeft = (quizTime - 1000)

```



```

215         //display timeLeft
216
217         document.getElementById("countdownDisplay").innerHTML =
            "Time left: " + ((timeLeft) / 1000) + " s"
218
219         //set quizTime equal to timeLeft
220
221         quizTime = timeLeft
222
223         //when quizTime becomes less than 0, clear the interval,
            send alert and submit the form "quiz"
224
225         if (quizTime < 0) {
226             clearInterval(timer);
227             alert('Time is up!');
228             document.getElementById("quiz").submit();
229         }
230     }, 1000);
231
232     //function clears all intervals in use
233
234     function clearIntervals() {
235         clearInterval/phpTime);
236         clearInterval(timer);
237     };
238 </script>
239
240 <!--clicking on the button will make its corresponding question
    visible-->
241
242 <button onclick="showQ1()" id="questionbutton">Q1</button>
243 <button onclick="showQ2()" id="questionbutton">Q2</button>
244 <button onclick="showQ3()" id="questionbutton">Q3</button>
245 <button onclick="showQ4()" id="questionbutton">Q4</button>
246 <button onclick="showQ5()" id="questionbutton">Q5</button>
247 <button onclick="showQ6()" id="questionbutton">Q6</button>
248 <button onclick="showQ7()" id="questionbutton">Q7</button>
249 <button onclick="showQ8()" id="questionbutton">Q8</button>
250 <button onclick="showQ9()" id="questionbutton">Q9</button>
251 <button onclick="showQ10()" id="questionbutton">Q10</button>
252 <br>
253
254 <form id="quiz" method="post"
    action="http://localhost/PROJECT/PHPcode/calcuatescore.php">
255     <?php
256
257         //call getQuestions.php to execute
258
259         include 'PHPcode/getQuestions.php';
260     ?>
261
262     <!--on submit, call function clearIntervals-->
263
264     <input type="submit" value="Finish Quiz" id="formbutton"
        onclick="clearIntervals();">
265
266 </form>
267
268 </div>
269
270 </main>
271
272
273 <footer>
274     <a href="Home.php">
275         
276     </a>
277 </footer>
278
279 </body>
280

```



```
1  <!--QuizEnter.html-->
2
3  <html>
4
5  <head>
6  <title>Quiz Enter</title>
7  <link rel="stylesheet" type="text/css" href="quizStyle.css">
8  </head>
9
10 <body>
11
12
13     <header>
14         <h1>Quiz Site</h1>
15         <nav>
16             <ul>
17                 <li><a href="Home.php">Home</a></li>
18                 <li><a href="QuizEnter.html">Take the quiz</a></li>
19                 <li><a href="Login.php">Login</a></li>
20                 <li><a href="Register.php">Register</a></li>
21                 <li><a href="Logout.php">Logout</a></li>
22             </ul>
23         </nav>
24     </header>
25
26
27     <main>
28
29     <div>
30         <h1>Ready to take the quiz?</h1>
31         <button type="button" id="formbutton" onclick="location.href='Quiz.php';">Click
32         here to take the quiz!</button>
33         <br>Please note that you must be on an account to take the quiz. If you are
34         re-taking the quiz, your previous score and time will be updated with your new
35         results.
36         <br><br><i><a href="Leaderboard.php">Want to see what you are up against? Take a
37         look at the leaderboard.</a></i>
38     </div>
39
40     </main>
41
42     <footer>
43         <a href="Home.php">
44             
46         </a>
47     </footer>
48
49 </body>
50
51 </html>
```

```

1  /* quizStyle.css */
2
3  /*for mobile,tablet*/
4
5      h1 {font-family: Book Antiqua;font-size:20px;}
6      * {font-family:Palatino Linotype;font-size:15px;}
7      footer,a,#formbutton{font-size:12px}
8      header,footer{background-color:darkslategray;color:lightgrey;text-align:center;}
9      body{padding:25px;background-color:slategray;}
10
11     div{border-radius:40px;padding:10px;background-color:gainsboro;color:slategray;margin-top:5px;margin-bottom:5px;display:block;text-align:center;}
12     div a{text-decoration:none;color:darkslategray;}
13     div a:hover{color:teal;}
14     main{margin:10px}
15     nav ul{list-style-type:none;overflow:hidden;}
16     nav li{float:left;display:inline;}
17     nav li
18     a{font-size:14px;display:block;color:darkslategray;text-decoration:none;border-radius:10px;width:100px;padding:7.5px;margin:2.5px;background-color:lightgray;}
19     nav li a:hover{color:teal;}
20
21     #formbutton{display:block;color:lightgrey;text-decoration:none;border-radius:10px;background-color:darkslategray;margin:auto;width:25%;padding: 10px;}
22     form{font-weight:bold;}
23     div h1{color:darkslategray;text-decoration:underline;}
24
25     #questionbutton{display:inline;color:lightgrey;text-decoration:none;border-radius:10px;background-color:darkslategray;margin:auto;width:7%;padding: 10px;}
26     #questionbutton:focus{background-color:teal;}
27
28     .question{background-color:#F6F6F6;margin-left:15px;border-style:solid;border-color:slategray;color:darkslategray;}
29     table {border-collapse: collapse;}
30     table, th, td {border: 1px solid slategray;background-color:#F6F6F6;margin:auto;width: 50%;color:darkslategray;}
31
32 /*for desktops*/
33
34 @media screen and (min-width: 768px) {
35     h1 {font-size:30px;}
36     * {font-size:20px;}
37     footer,a,#formbutton{font-size:18px}
38     html{background-color:teal;}
39     body{border-radius:15px;width:95%;padding:25px;background-color:slategray;}
40     div{border-radius:50px;width:95%;}
41     main{margin:70px;}
42     nav li{margin-left:50px;margin-right:42px;}
43
44     #questionbutton{display:inline;color:lightgrey;text-decoration:none;border-radius:10px;background-color:darkslategray;margin:auto;width:7%;padding: 10px;}
45 }

```

```

1  <!--Register.php-->
2
3  <html>
4
5      <?php
6
7          //start session
8          session_start();
9
10         //if account is in use, redirect to onAccount.php
11
12         if (isset($_SESSION['currentUser'])) {
13             header('Location:http://localhost/PROJECT/onAccount.php');
14         };
15
16     ?>
17
18     <head>
19         <title>Register</title>
20         <link rel="stylesheet" type="text/css" href="quizStyle.css">
21     </head>
22
23     <body>
24     <header>
25         <h1>Quiz Site</h1>
26         <nav>
27         <ul>
28             <li><a href="Home.php">Home</a></li>
29             <li><a href="QuizEnter.html">Take the quiz</a></li>
30             <li><a href="Login.php">Login</a></li>
31             <li><a href="Register.php">Register</a></li>
32             <li><a href="Logout.php">Logout</a></li>
33         </ul>
34         </nav>
35     </header>
36
37     <main>
38
39         <div>
40             <h1>Register</h1>
41
42             <form action="http://localhost/PROJECT/PHPcode/newUser.php"
43                 method="post">
44
45                 Username: <input type="text" name="user" required>
46                 <br>Password: <input type="password" name="pass" required>
47
48             <?php
49
50                 //if userError does not exist, echo "" (NULL)
51
52                 if (!isset($_SESSION['userError'])) {
53
54                     echo "";
55
56                 }
57
58                 else {
59
60                     //if userError exists and is true, echo error message.
61                     //destroy session to omit userError.
62
63                     if ($_SESSION['userError']) {
64
65                         echo "<br><br><b><i>Someone already has this
66                             username. Please resubmit.</i></b>";
67                         session_unset();
68                         session_destroy();
69
70                     } else {
71
72                         echo "";

```

```
70
71         };
72     };
73     ?>
74
75     <br><br>
76     <input type="submit" id="formbutton">
77
78 </form>
79
80 <br><i><a href="Login.php">Already a user? Login here.</a></i>
81
82 </div>
83
84 </main>
85
86
87
88
89 <footer>
90     <a href="Home.php">
91         
93     </a>
94 </footer>
95
96 </body>
</html>
```

```
1 <!--response.php-->
2
3 <?php
4
5     //start session
6
7     session_start();
8
9     //set $time as session variable time take 1
10
11     $time = $_SESSION["time"] - 1000;
12
13     //set session variable time as $time
14
15     $_SESSION["time"]=$time;
16
17     //return $time
18
19     echo $time;
20
21 ?>
```

```

1  <!--sortLeaderboard.php-->
2
3  <?php
4
5      //start connection and session
6
7      session_start();
8      include 'Connect.php';
9
10     //get all leaderboard and user details for all users that are on the leaderboard
    (so they have a leaderboardRank)
11
12     $sql = "SELECT * FROM user, leaderboard WHERE leaderboardScore IS NOT NULL AND
    user.leaderboardRank = leaderboard.leaderboardRank ORDER BY leaderboardScore DESC,
    timecompleted DESC;";
13     $result = mysqli_query($conn,$sql);
14
15     //create table
16
17     echo "
18         <table>
19         <tr>
20             <th>Rank</th>
21             <th>Username</th>
22             <th>Score</th>
23             <th>Time Completed</th>
24         </tr>
25         ";
26
27     //set $count as 0
28
29     $count = 0;
30
31     //for each row returned by query
32
33     while($row = mysqli_fetch_array($result)) {
34
35         //add 1 to $count
36
37         $count += 1;
38         echo "<tr>";
39
40         //echo $count (under table heading "rank")
41
42         echo "<td>" . $count . "</td>";
43
44         //echo username (under table heading "username")
45
46         echo "<td>" . $row['username'] . "</td>";
47
48         //echo leaderboardScore (under table heading "Score")
49
50         echo "<td>" . $row['leaderboardScore'] . "</td>";
51
52         //echo timecompleted (under table heading "Time Completed")
53
54         echo "<td>" . $row['timecompleted'] . "</td>";
55         echo "</tr>";
56     }
57
58     //finish table
59
60     echo "</table>";
61
62     //close connection
63
64     mysqli_close($conn);
65
66     ?>

```



```

1  <!--updateLeaderboard.php-->
2
3  <?php
4
5      //start connection
6
7      include 'Connect.php';
8
9      //get current value of session variable time and currentUser and set as $usertime
    and $currentUser
10
11     $currentUser = $_SESSION['currentUser'];
12     $usertime = $_SESSION['time'] / 1000;
13
14     //query to see if current user already exists on the leaderboard (so they have a
    leaderboard rank)
15
16     $sql = "SELECT * FROM user WHERE username = '$currentUser' AND leaderboardRank IS
    NOT NULL;";
17     $result = mysqli_query($conn,$sql);
18
19     if (mysqli_num_rows($result) != 1){
20
21         //for when username = $currentUser on the user table, insert the values of
        $score and $usertime as leaderboardScore
22         //and timecompleted onto the leaderboard table
23
24         $sqlNew =
25         "insert into leaderboard(leaderboardScore,timecompleted)
26         values((select distinct case
27             when username = '$currentUser' then $score
28             else null
29             end
30         from user where (select distinct case
31             when username = '$currentUser' then $score
32             else null
33             end) is not null
34         ),
35         (select distinct case
36             when username = '$currentUser' then $usertime
37             else null
38             end
39         from user
40         where (select distinct case
41             when username = '$currentUser' then $usertime
42             else null
43             end) is not null)
44         );";
45         $resultNew = mysqli_query($conn,$sqlNew);
46
47         //get auto_increment id from last insert (which corresponds to the newly
        inserted leaderboardRank)
48
49         $lbRank = mysqli_insert_id($conn);
50
51         //update the user with the value of their leaderboardRank on the user table
52
53         $sqlLbRank = "UPDATE user SET leaderboardRank = $lbRank WHERE username =
        '$currentUser';";
54         $resultLbRank = mysqli_query($conn,$sqlLbRank);
55
56     } else {
57
58         //update the values of $score and $usertime as leaderboardScore and
        timecompleted on the leaderboard table
59         //for the current user
60         $sqlUpdate = "UPDATE leaderboard SET leaderboardScore = $score, timecompleted
        = $usertime WHERE leaderboardRank = (SELECT leaderboardRank FROM user WHERE
        username = '$currentUser');";
61         $resultUpdate = mysqli_query($conn,$sqlUpdate);
62     };
63

```

```
64     //close connection
65
66     mysqli_close($conn);
67
68     ?>
```