

DB Games

Final Project

By Daniel Rose and Bikash Khatiwoda

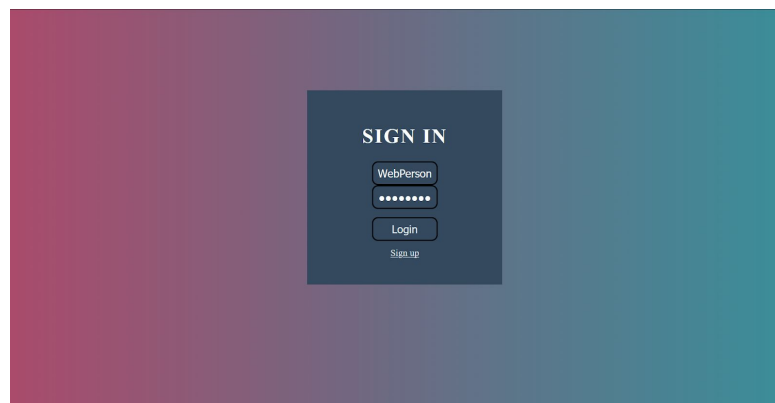
Introduction:

For the final project we decided to make a website. A website to host video games. We decided to do this project because we like video games and thought it would be a fun and challenging. Since we had little to no knowledge of HTML, CSS, and PHP, we had to learn it. We ran our website on XAMPP so we could test how long it was. It was fun, challenging and we learned a lot along the way.

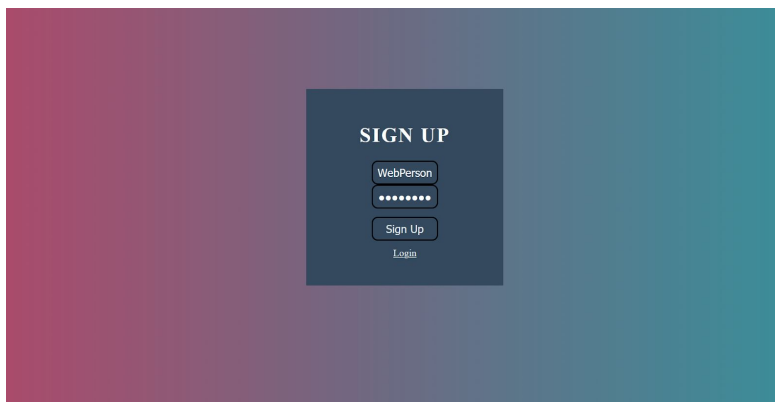
Features:

Our website has a login and signup system, a system to play games and a score system. The first system is the login and signup system. This allows anyone who wants to play on our website have the ability to create their own account to play games with. Our website's landing page which is index.php is a login screen so you need to create an account in order to get access to the regular homepage. On the landing page is a link to the create account page which is signup.php which is used to create an account. Once you have created an account and are on the homepage then you will have access to go to any of the pages that host one of the games or the leaderboard page.

index.php

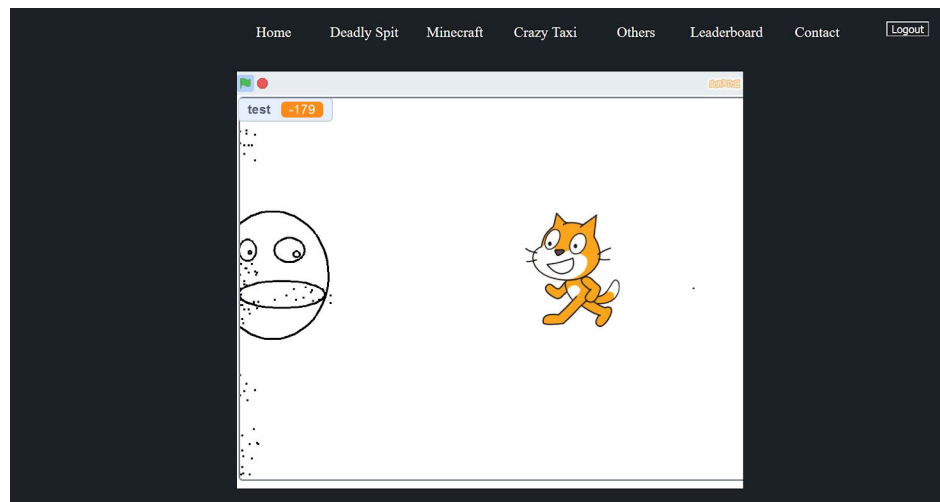


signup.php



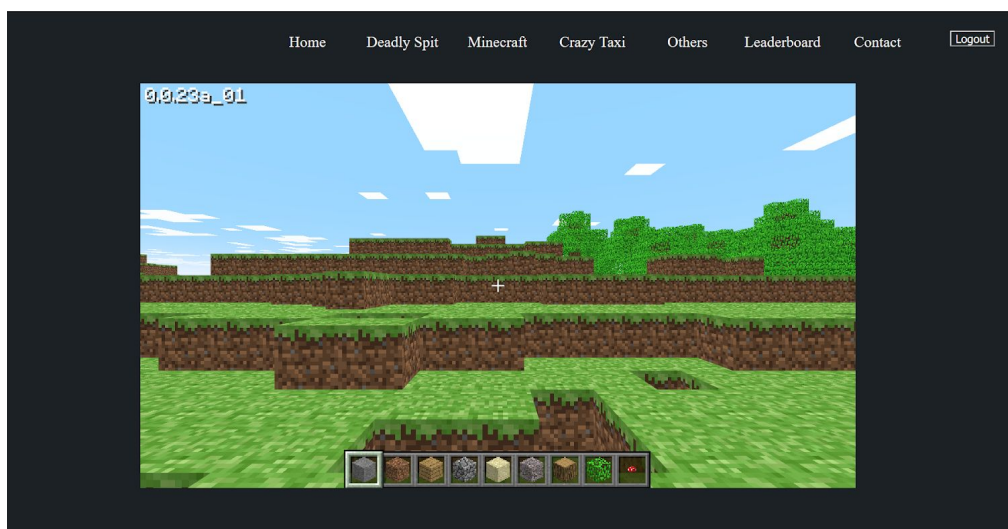
Second, our website has a system to play games. From the homepage there are three big images each showcasing an icon for the 3 games on our website. The first game is Deadly Spit II which is on game1.php where you move an orange cat up and down to avoid the 'deadly' spit from the evil face. The game was created in the game maker called scratch which allows you to move make games by clicking and dragging code like blocks to create actions.

Game1.php (Deadly Spit II)



Our other two games are Minecraft classic on game2.php and Crazy Taxi on game3.php. Minecraft classic is a game made by Mojang which is now owned by Microsoft. Crazy Taxi is a game on the website <http://funhtml5games.com>. All 3 of these games are put into the using an iframe.

Game2.php (Minecraft)

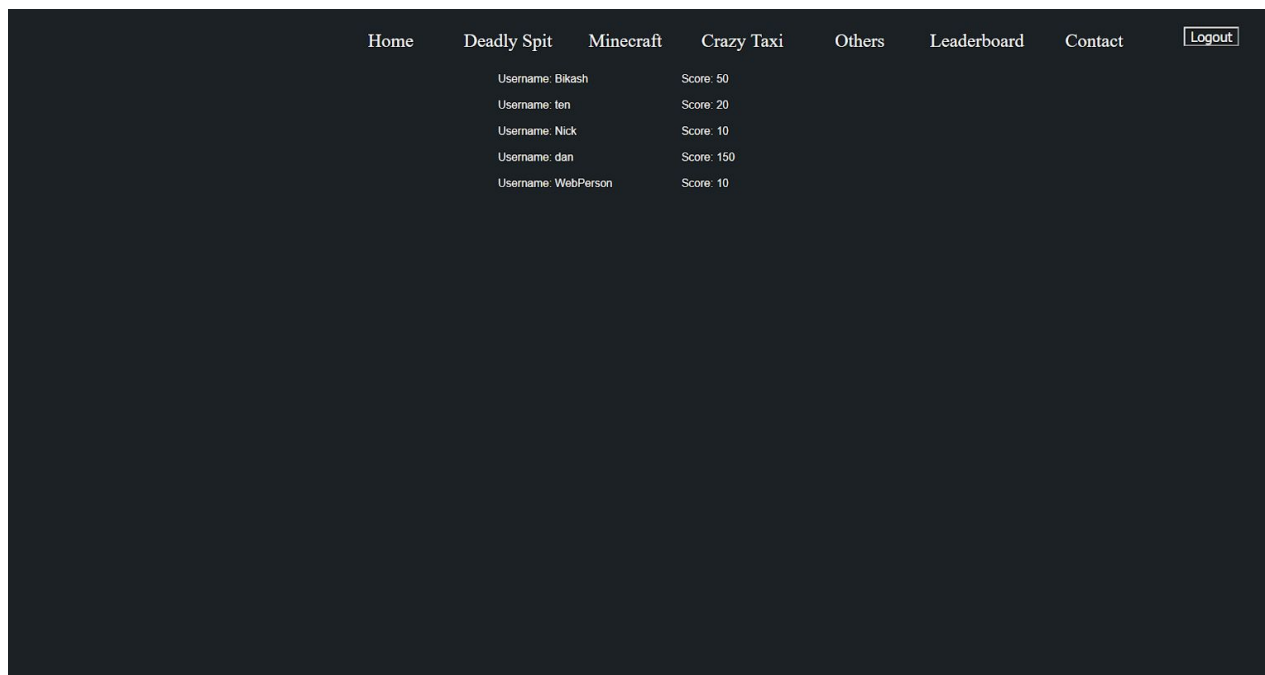


Game3.php (Crazy Taxi)



Third, our website has a score system. The score system gives people points each time they go to one of our games. Every link from the homepage goes to a processing page which will add 10 points to your score and then forward you to the game you clicked on. There is also a leaderboard page which displays all the users of the website and their scores. The leaderboard page can be accessed from any page after logging into the game.

Leaderboard.php



Architecture:

Our website has 5 php pages you can get to and view once you login: Homepage.php, game1.php, game2.php, game3.php and leaderboard.php. To login we have index.php and signup.php. When you signup it directs you to a submit.php that you do not see that adds your account to our user MySQL database and then forwards you to the index.php page.

In the submit.php we use post to get the username and password from the signup.php. We then use mysqli_query to add the username and password into database. To log on we use Process.php that checks if the username and password you entered is in the database. If it is it puts it into a session and forwards you to the homepage. Otherwise if it is wrong then it just reloads the page.

Submit.php

```
1 <?php
2
3 $x=$_POST['username'];
4 $y=$_POST['password'];
5 $servername= 'localhost';
6 $username= 'root';
7 $password = '';
8 $dbname = 'db1';
9
10
11 $conn = new mysqli($servername, $username, $password, $dbname);
12
13 //echo "Connection successful" . "<br>";
14 $sql = "INSERT INTO user (fname, lname) VALUES ('$x', '$y')";
15
16 if($conn->query($sql) === TRUE){
17     // echo "Signup Successful";
18 } else {
19     echo "<br> Error: " . $sql . "<br> " . $conn->error;
20 }
21
22 ?>
23
24 <html>
25 <head>
26     <title>submit</title>
27     <link rel="stylesheet" href="sub.css">
28 </head>
29
30 <body>
31
32     <header class = "welcome">
33         <h1> sign up successful</h1><br>
34         <a href="index.php" class="button">Log in</a>
35     </header>
36
37 </body>
38 </html>
```

Process.php

```
1 <?php
2
3 $host="localhost";
4 $user="root";
5 $password="";
6 $db="db1";
7
8 $con = mysqli_connect($host,$user,$password, 'db1');
9 session_start();
10
11 if(isset($_POST['username'])){
12     $uname=$_POST['username'];
13     $password=$_POST['password'];
14
15     $sql="select * from user where fname='".$uname.'"AND lname='".$password.'" limit 1";
16
17     $result=mysqli_query($con, $sql);
18
19     if(mysqli_num_rows($result)==1){
20         $_SESSION['vname'] = $uname;
21         $_SESSION['pass'] = $password;
22         sleep(.5);
23         echo " You Have Successfully Logged in";
24
25         header("Location: homepage.php");
26
27         exit;
28     }
29     else{
30         echo " You Have Entered Incorrect Password";
31         header("Location: index.php");
32         exit;
33     }
34 }
35
36 ?>
37
38
39
40
41 <form method="get" action="homepage.php">
42     <input type="text" name="regName" value="">
43     <input type="submit">
44 </form>
45
46
```

In the homepage we have 3 links to games and a header at the top that displays the user's username and links to all the games, the leaderboard and a logout button

Header

Welcome WebPerson

[Home](#)

[Deadly Spit](#)

[Minecraft](#)

[Crazy Taxi](#)

[Others](#)

[Leaderboard](#)

[Contact](#)

[Logout](#)

Homepage.php

```
1 <html>
2 <head>
3   <title>Homepage</title>
4   <link rel="stylesheet" href="homep.css">
5 </head>
6 <body>
7
8   <form action="index.php" method="post">
9     <header>
10      <ul class="nav-bar">
11        <li><a href="homepage.php">Home</a></li>
12        <li><a href="game1process.php">Deadly Spit</a></li>
13        <li><a href="game2process.php">Minecraft</a></li>
14        <li><a href="game3process.php">Crazy Taxi</a></li>
15        <li><a href="#">Others</a>
16        <ul class="inbar">
17          <li><a href="#">Game 4</a></li>
18          <li><a href="#">Game 5</a></li>
19          <li><a href="#">Game 6</a></li>
20        </ul></li>
21        <li><a href="leaderboard.php">Leaderboard</a></li>
22        <li><a href="contact.php">Contact</a></li>
23
24        <li><input type="submit" value="Logout" ></li>
25      </ul>
26    </header>
27  </form>
28  <?php
29    session_start();
30    $username = $_SESSION['varname'];
31    ?>
32    <p>Welcome <?php echo $username;?>
33    </p>
34  </body>
35 </html>
```

```
36
37 <div class="main">
38   <div class="wrap">
39
40     <a href="game1process.php"></a>
41     <h3>Deadly Spit II</h3>
42
43   </div>
44
45   <div class="wrap">
46
47     <a href="game2process.php"></a>
48     <h3>Minecraft Classic</h3>
49
50   </div>
51
52   <div class="wrap">
53     <a href="game3process.php"></a>
54     <h3>Crazy Taxi</h3>
55   </div>
56
57 </div>
58
59
60
61
62 </body>
63 </html>
64
```

Homep.css

```
1 body{
2   margin: 0;
3   padding: 0;
4   background-color: #1B2124;
5 }
6
7 header{
8   background-color: #1B2124;
9 }
10
11 header ul{
12   list-style: none;
13   float: right;
14 }
15
16 header .nav-bar li{
17   width: 170px;
18   text-align: center;
19   float: left;
20 }
21
22 header .nav-bar li a{
23   text-decoration: none;
24   line-height: 40px;
25   font-size: 27px;
26   color: white;
27   padding: 0 10px;
28 }
29
30 header .nav-bar a:hover{
31   background-color: #e74c3c;
32   transition: 1s;
33 }
34
35 header .nav-bar li .inbar li{
36   display: none;
37 }
38
39 header .nav-bar li:hover .inbar li{
40   display: block;
41 }
42
43 .nav-bar input[value="Logout"]{
44   color: white;
45   background: transparent;
46   font-size: 20px;
47   outline: none;
48 }
```

```
48
49 .wrap{
50   height: 300px;
51   width: 300px;
52   margin: 30px;
53   padding: 7%;
54   position: relative;
55   display: inline-block;
56   float: left;
57   padding-top: 10%;
58 }
59
60 .wrap img{
61   height: 100%;
62   width: 100%;
63   border-radius: 50%;
64   transition: .25s;
65 }
66
67 .wrap h3{
68   text-align: center;
69   color: white;
70 }
71
72 .wrap img:hover{
73   filter: blur(2px);
74   filter: brightness(70%);
75 }
76
77 p{
78   color: white;
79   font-size: 20px;
80   margin-top: 20px;
81   margin-left: 20px;
82   text-transform: capitalize;
83 }
84
```

Contributions:

For our website Daniel Rose worked on the login system and the leaderboard system. He mainly coded the php and created and edited the MySQL database. Bikash mainly did the html and css for the website. He made the website look nice and presentable while Daniel did more of the backend.

Experimental results and analysis:

We had multiple people look, review and play the games on our website. People really enjoyed having the point system and that they had the ability to make whatever username they wanted. The most common advice we received was to add more games to our website. We also got the advice that we should sort our leaderboard because our current one just prints every row in our database but if it sorted it it would look better.

Reference link:

Learning HTML, CSS & PHP

<https://www.w3schools.com>

Pictures for the site:

<https://unsplash.com>

<https://www.pexels.com/search/website%20background/>

Hex Color code for colors used on the site:

<https://flatuicolors.com>