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HTML file

```html
1   <!DOCTYPE html>
2   <html>
3       <head>
4           <title>Hangman Game</title>
5                   <link href="stylesheet.css" rel="stylesheet" />
6       </head>
7       <body>
8       <!-- The banner -->
9   <div class="banner">
10  <img src="images/logo.png" alt="This is a logo"/>
11  </div>
12  <div class="topnav">
13              <a class="active" href="index.html">Home</a>
14              <a href="ranking.html">Ranking</a>
15              <a href="register.html">Register</a>
16              <a href="login.html">Login</a>
17          </div>
18  <div>
19          <!-- The sidebar -->
20  <div class="sidebar">
21                      <a>Peter- 50</a>
22                      <a>Rob- 45</a>
23                      <a>Alice- 18</a>
24                      <a>Joanna-23</a>
25
26  </div>
```

```html
27
28  <!-- Page content -->
29  <div class="content">
30
31  </div>
32  </div>
33  <!-- footerbar -->
34  <div class="footerbar">
35                  <p>@Copyright reserved</p>
36              </div>
37
38          </div>
39      </body>
40  </html>
41
```

After open in the browser:

Home   Ranking   Register   Login

Peter- 50

Rob- 45

Alice- 18

Joanna-23

@Copyright reserved

This is landing page (main). From this page we can jump to ranking, register and login ones.

On the left side we see the ranking (4 names and scores gained)

At the top it is banner with the image of hangman.

Login page (html)

```
1    <!DOCTYPE html>
2    <html>
3        <head>
4            <title>Hangman Game</title>
5            <link href="stylesheet.css" rel="stylesheet" />
6        </head>
7        <body>
8            <div id="container">
9
10
11   <div class="banner">
12   <img src="images/logo.png" alt="This is a logo"/>
13   </div>
14   <div class="topnav">
15               <a href="index.html">Home</a>
16               <a href="ranking.html">Ranking</a>
17               <a href="register.html">Register</a>
18               <a class="active" href="login.html">Login</a>
19       </div>
20
21   <div class="container">
22
23       <p>Please Login For Hangman Game.</p>
24       <hr>
25   <div>
26       <label for="username"><b>Username</b></label>
27       <input type="text" placeholder="Enter User Name" name="username" id="username" required></br>
```

```
28       </div>
29       <div>
30
31       <label for="psw"><b>Password</b></label>
32       <input type="password" placeholder="Enter Password" name="psw" id="psw" required></br>
33   </div>
34   <div>
35
36       <button type="submit" class="btnsubmit">Login</button>
37       </div>
38
39     </div>
40
41     <div class="footerbar">
42               <p>@Copyright reserved</p>
43           </div>
44
45       </div>
46
47       </body>
48   </html>
49
```

It is similar file to the index.html but enrich in 2 fields to fill in: username and password of user.

In the class "topnav" we see that login.html is active, not index one like was in the first case. It is obviously because we need fill in 2 fields and we use this site at this time.

```
<div class="topnav">
            <a href="index.html">Home</a>
            <a href="ranking.html">Ranking</a>
            <a href="register.html">Register</a>
            <a class="active" href="login.html">Login</a>
        </div>
```
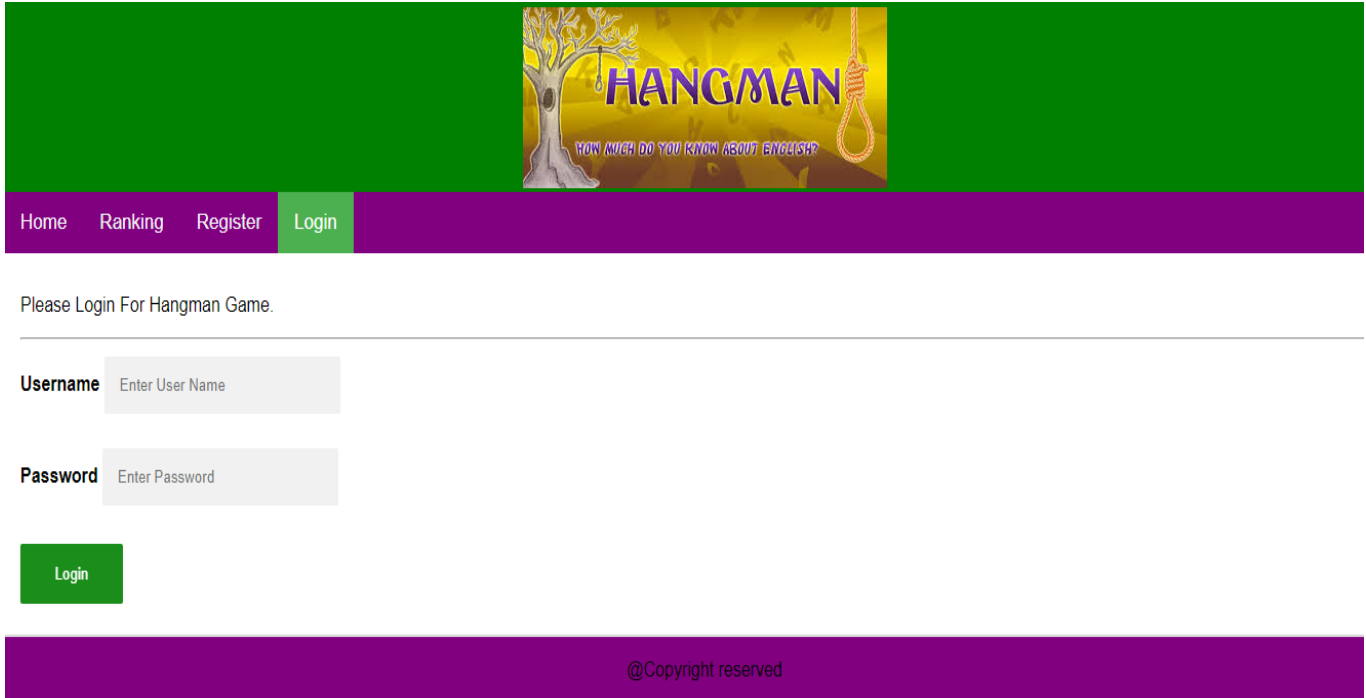
We use label, input and placeholder to create filling fields.

After opening in the browser:

We can see 2 fields to fill in by the user: username and password.

Ranking.html

```
1    <!DOCTYPE html>
2    <html>
3        <head>
4            <title>Hangman Game</title>
5            <link href="stylesheet.css" rel="stylesheet" />
6        </head>
7        <body>
8            <div id="container">
9    <div class="banner">
10   <img src="images/logo.png" alt="This is a logo"/>
11   </div>
12   <div class="topnav">
13               <a href="index.html">Home</a>
14               <a class="active" href="ranking.html">Ranking</a>
15               <a href="register.html">Register</a>
16               <a href="login.html">Login</a>
17           </div>
18
19   <div class="container">
20
21       <p>Summary of the Latest Hangman Game Users will display .</p>
22   <div>
23   </div>
24     </div>
25
26     <div class="footerbar">
27               <p>@Copyright reserved</p>
28           </div>
29         </div>
30           </body>
31     </html>
32
```

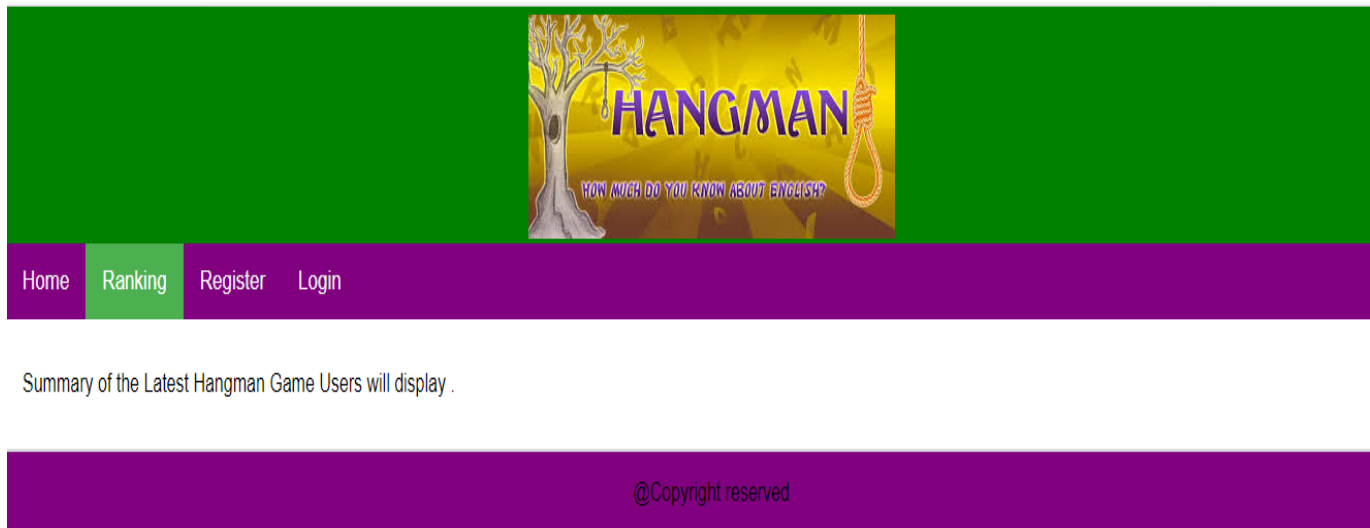At this time ranking is active

```
<div class="topnav">
            <a href="index.html">Home</a>
            <a class="active" href="ranking.html">Ranking</a>
            <a href="register.html">Register</a>
            <a href="login.html">Login</a>
        </div>
```

After opening in the browser:

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Summary of the Latest Hangman Game Users will display .

@Copyright reserved

Register.html

```html
1   <!DOCTYPE html>
2   <html>
3       <head>
4           <title>Hangman Game</title>
5           <link href="stylesheet.css" rel="stylesheet" />
6       </head>
7       <body>
8           <div id="container">
9
10
11
12
13  <div class="banner">
14  <img src="images/logo.png" alt="This is a logo"/>
15  </div>
16  <div class="topnav">
17              <a  href="index.html">Home</a>
18              <a href="ranking.html">Ranking</a>
19              <a class="active" href="register.html">Register</a>
20              <a href="login.html">Login</a>
21          </div>
22
23  <div class="container">
24      <h1>User Register</h1>
25      <p>Please fill in this form to create an User Account For Hangman Game.</p>
26      <hr>
27  <div>
```

```
28        <label for="firstname"><b>FirstName</b></label>
29        <input type="text" placeholder="Enter First Name" name="firstname" id="firstname" required></br>
30      </div>
31      <div>
32
33       <label for="lastname"><b>LastName</b></label>
34        <input type="text" placeholder="Enter Last Name" name="lastname" id="lastname" required></br>
35    </div>
36
37      <div>
38
39       <label for="email"><b>Email ID  </b></label>
40        <input type="text" placeholder="Enter Email " name="email" id="email" required></br>
41    </div>
42    <div>
43
44        <label for="psw"><b>Password</b></label>
45        <input type="password" placeholder="Enter Password" name="psw" id="psw" required></br>
46    </div>
47    <div>
48
49
50        <label for="psw-repeat"><b>Repeat Password</b></label>
51        <input type="password" placeholder="Repeat Password" name="psw-repeat" id="psw-repeat" required></br>
52      </div>
53
54    <div>
```

```
55
56        <button type="submit" class="btnsubmit">Join</button>
57      </div>
58
59    </div>
60
61    <div class="footerbar">
62              <p>@Copyright reserved</p>
63          </div>
64
65      </div>
66
67      </body>
68  </html>
69
```
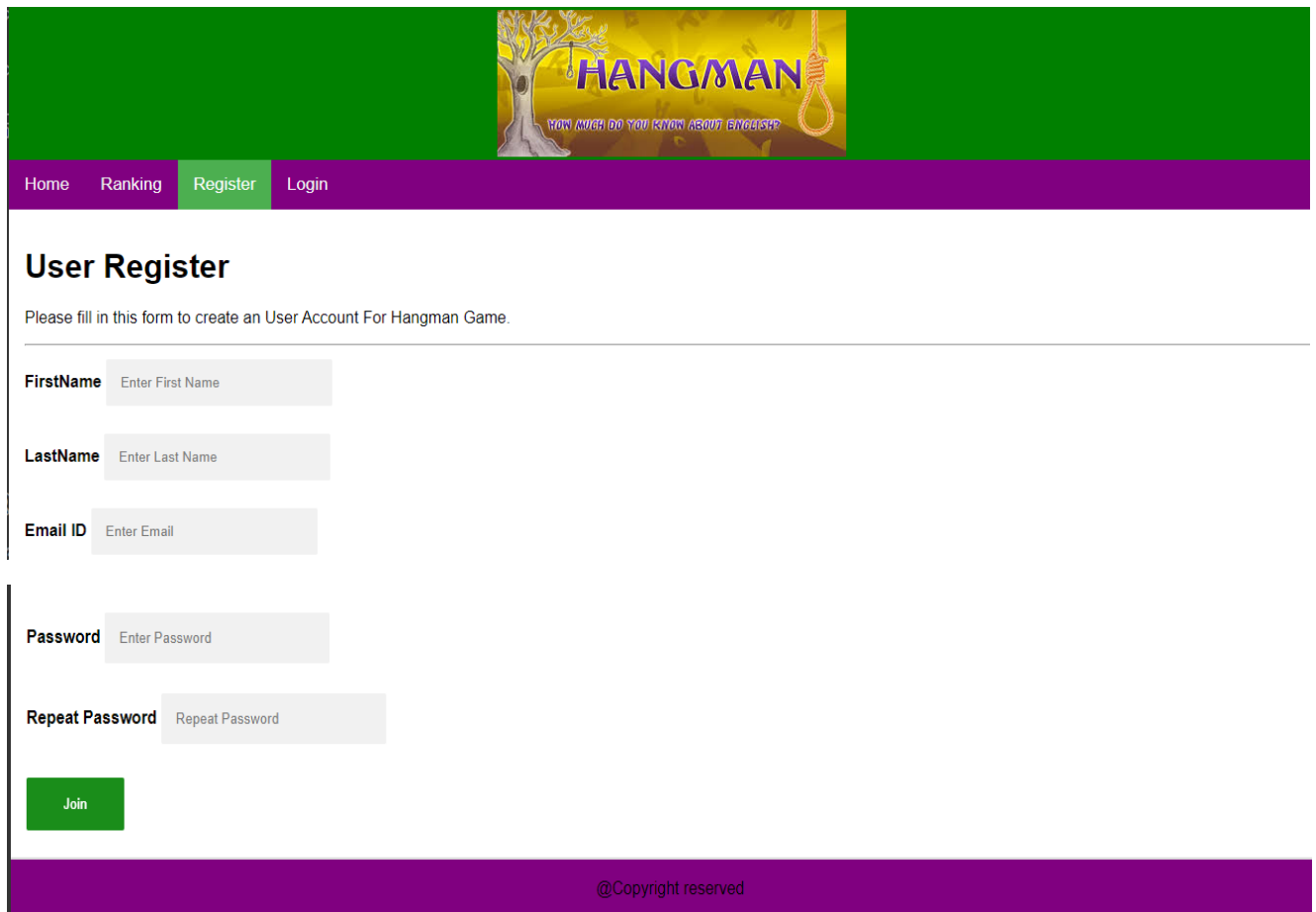
In the class "topnav" we see what is active, register this time. We use input, label, placeholder like in the case of login. We need the field to fill in by the user.

```
<div class="topnav">
            <a  href="index.html">Home</a>
            <a href="ranking.html">Ranking</a>
            <a class="active" href="register.html">Register</a>
            <a href="login.html">Login</a>
        </div>
```

After opening in the browser:

User Register

Please fill in this form to create an User Account For Hangman Game.

FirstName   Enter First Name

LastName   Enter Last Name

Email ID   Enter Email

Password   Enter Password

Repeat Password   Repeat Password

Join

We see 5 fields to fill in by the user. (FirstName, LastName, Email ID, Password, Repeat Password)

CSS file called stylesheet.css

It is connected with all files which were mentioned before (index, register, login, ranking)

```
<link href="stylesheet.css" rel="stylesheet" />
```

We use CSS to fix the styles.

Code – view:

```css
1   body {
2     margin: 0;
3     font-family: Arial, Helvetica, sans-serif;
4   }
5   .banner {
6       background-color: green;
7       text-align: center;
8       padding: 5px;
9     height:140px;
10  }
11  /* Add a purple background color to the top navigation */
12  .topnav {
13    background-color: purple;
14    overflow: hidden;
15  }
16
17  /* Style the links inside the navigation bar */
18  .topnav a {
19    float: left;
20    display: block;
21    color: #f2f2f2;
22    text-align: center;
23    padding: 14px 16px;
24    text-decoration: none;
25    font-size: 17px;
26  }
```

```css
27
28   /* Change the color of links on hover */
29   .topnav a:hover {
30     background-color: #ddd;
31     color: black;
32   }
33
34   /* Add an active class to highlight the current page */
35   .topnav a.active {
36     background-color: #4CAF50;
37     color: white;
38   }
39
40   /* Hide the link that should open and close the topnav on small screens */
41   .topnav .icon {
42     display: none;
43   }
44
45   /* The side navigation menu */
46   .sidebar {
47     margin: 0;
48     padding: 0;
49     width: 200px;
50     background-color: gray;
51     height: 270px;
52     overflow: hidden;*/
53   }
```

```css
54
55    /* Sidebar links */
56    .sidebar a {
57      display: block;
58      color: black;
59      padding: 16px;
60      text-decoration: none;
61    }
62
63    /* Active/current link */
64    .sidebar a.active {
65      background-color: #4CAF50;
66      color: white;
67    }
68
69    /* Links on mouse-over */
70    .sidebar a:hover:not(.active) {
71      background-color: #555;
72      color: white;
73    }
74
75    /* Page content. The value of the margin-left property should match the value of the sidebar's width property */
76    .content {
77      margin-left: 200px;
78      padding: 1px 1px 1px 1px;
79      height: 100px;
```

```css
80      text-align:center;
81    }
82
83    .container {
84      padding: 16px;
85
86    }
87
88    /* Full-width input fields */
89    input[type=text], input[type=password] {
90      width: 200px;
91      padding: 15px;
92      margin: 5px 0 22px 0;
93      display: inline-block;
94      border: none;
95      background: #f1f1f1;
96    }
97
98    input[type=text]:focus, input[type=password]:focus {
99      background-color: #ddd;
100     outline: none;
101   }
102
103   .btnsubmit{
104     background-color: green;
105     color: white;
106     padding: 16px 20px;
```

```
107        margin: 8px 0;
108        border: none;
109        cursor: pointer;
110        width: 100px;
111        opacity: 0.9;
112    }
113
114
115    .footerbar{
116        background-color: ■purple;
117        border-top: 2px solid ■#ddd;
118        text-align: center;
119        padding: 1px 1px 1px 1px;
120        height : 50px;
121    }
```

We use CSS[1] to define style. We use some parameters to define styles such as: padding, margin, border, cursor, colour, background, height, width etc.

Everything mention with dot at the beginning it is a class, for example:

.banner

.topnav

.topnav a

px. Is abbreviation for pixel[2]

---

[1] "CSS (Cascading Style Sheets) is used to style and lay out web pages — for example, to alter the font, color, size, and spacing of your content, split it into multiple columns, or add animations and other decorative features. This module provides a gentle beginning to your path towards CSS mastery with the basics of how it works, what the syntax looks like, and how you can start using it to add styling to HTML", https://developer.mozilla.org/en-US/docs/Learn/CSS/First_steps

[2] "The term "pixel" is actually short for "Picture Element." These small little dots are what make up the images on computer displays, whether they are flat-screen (LCD) or tube (CRT) monitors. The screen is divided up into a matrix of thousands or even millions of pixels.", https://www.google.com/search?q=pixel&rlz=1C1CHWL_en&oq=pixel&aqs=chrome..69i57j0i433i457j0i433j0i131i433j0i433j0j69i60l2.4346j0j4&sourceid=chrome&ie=UTF-8

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PHP

The code has been used from teacher's source.

common.php

```php
<?php

//Ouputs the header for the page and opening body tag
function outputHeader($title){
    echo '<!DOCTYPE html>';
    echo '<html>';
    echo '<head>';
    echo '<title>' . $title . '</title>';
    echo '<!-- Link to external style sheet -->';
    echo '<link rel="stylesheet" type="text/css" href="stylesheet.css">';
    echo '</head>';
    echo '<body>';
}

/* Ouputs the banner and the navigation bar
   The selected class is applied to the page that matches the page name variable */
function outputBannerNavigation($pageName){
    //Output banner and first part of navigation
    echo '<div class="banner"><img src="images/logo.png" alt="This is a logo"/>
</div>';
    echo '<div class="navigation">';

    //Array of pages to link to
    $linkNames = array("Home", "Ranking", "Registration", "Login");
    $linkAddresses = array("index.php", "ranking.php", "register.php", "login.php");

    //Output navigation
    for($x = 0; $x < count($linkNames); $x++){
        echo '<a ';
        if($linkNames[$x] == $pageName){
            echo 'class="selected" ';
        }
        echo 'href="' . $linkAddresses[$x] . '">' . $linkNames[$x] . '</a>';
    }
    echo '</div>';
}

//Outputs closing body tag and closing HTML tag
function outputFooter(){
    echo "<p>Copyright &copy; 2020-" . date("Y") . " HangmanGame</p>";
    echo '</body>';
    echo '</html>';
}
```

13

We use PHP[3] for:

"PHP is a server-side scripting language, which is used to manage the dynamic content of the website"[4]

PHP scripts do not work in the browser, there are executed on the server site.

register.php – code

```php
1   <?php
2       //Include the PHP functions to be used on the page
3       include('common.php');
4
5       //Output header and navigation
6       outputHeader("Hangman Game - Registration");
7       outputBannerNavigation("Registration");
8   ?>
9
10  <!-- Contents of the page -->
11  <div class="container">
12      <h1>User Register</h1>
13      <p>Please fill in this form to create an User Account For Hangman Game.</p>
14      <hr>
15  <div>
16      <label for="firstname"><b>FirstName</b></label>
17      <input type="text" placeholder="Enter First Name" name="firstname" id="firstname" required></br>
18      </div>
19      <div>
20
21       <label for="lastname"><b>LastName</b></label>
22      <input type="text" placeholder="Enter Last Name" name="lastname" id="lastname" required></br>
23  </div>
24
25      <div>
26
27       <label for="email"><b>Email ID  </b></label>
```

[3] "PHP (recursive acronym for PHP: Hypertext Preprocessor) is a widely-used open source general-purpose scripting language that is especially suited for web development and can be embedded into HTML.", https://www.php.net/manual/en/intro-whatis.php

[4] https://www.javatpoint.com/php-tutorial

```
28        <input type="text" placeholder="Enter Email " name="email" id="email" required></br>
29    </div>
30    <div>
31
32        <label for="psw"><b>Password</b></label>
33        <input type="password" placeholder="Enter Password" name="psw" id="psw" required></br>
34    </div>
35    <div>
36
37
38        <label for="psw-repeat"><b>Repeat Password</b></label>
39        <input type="password" placeholder="Repeat Password" name="psw-repeat" id="psw-repeat" required></br>
40        </div>
41
42    <div>
43
44        <button type="submit" class="btnsubmit">Join</button>
45        </div>
46
47      </div>
48
49
50
51    <?php
52        //Output the footer
53        outputFooter();
54    ?>
```

register.php include connection to common.php file