

TESTING (TEST CASES)

TEST CASE 1 :

Test case for Login form:

When a user tries to login by submitting an incorrect ID or an incorrect Password then it displays an error message “NOT A VALID USERNAME”.

TEST CASE 2:

Test case for User Registration form:

When a user enters user id to register and ID already exists, then this result in displaying an error message “USER ID ALREADY EXISTS”.

TEST CASE 3 :

Test case for Change Password:

When the old password does not match with the new password, then this results in displaying an error message as “ OLD PASSWORD DOES NOT MATCH WITH THE NEW PASSWORD”.

TEST CASE 4 :

Test case for Forget Password:

When a user forgets his password he is asked to enter a Login name, ZIP code, Mobile number. If these are matched with the already stored ones then the user will get his Original password.

CODE REFACTORING

Test case 1:Login form-

Original Html Code (loginpage.html)

```
C:\> Users > acer > loginpage.html > html
1  <!DOCTYPE html>
2  <html>
3
4  <head>
5      <title>Login Form</title>
6      <link rel="stylesheet" type="text/css" href="css/style.css">
7  </head>
8
9  <body>
10     <h2>Login Page</h2><br>
11     <div class="login">
12         <form id="login" method="get" action="login.php">
13             <label><b>User Name
14             </b>
15             </label>
16             <input type="text" name="Uname" id="Uname" placeholder="Username">
17             <br><br>
18             <label><b>Password
19             </b>
20             </label>
21             <input type="Password" name="Pass" id="Pass" placeholder="Password">
22             <br><br>
23             <input type="button" name="log" id="log" value="Log In Here">
24             <br><br>
25             <input type="checkbox" id="check">
26             <span>Remember me</span>
27             <br><br>
28             Forgot <a href="#">Password</a>
29         </form>
30     </div>
31 </body>
32
33 </html>
```

Refactored HTML Code -

```
C: > Users > acer > <> loginpage.html > ...
1  <!DOCTYPE html>
2  <html>
3
4  <head>
5      <title>Login Form</title>
6      <link rel="stylesheet" type="text/css" href="css/style.css">
7  </head>
8
9  <body>
10     <h2>Login Page</h2><br>
11     <div class="login">
12         <form id="loginForm" method="post" action="login.php">
13             <label for="Uname">User Name</label>
14             <input type="text" name="Uname" id="Uname" placeholder="Username">
15             <br><br>
16             <label for="Pass">Password</label>
17             <input type="password" name="Pass" id="Pass" placeholder="Password">
18             <br><br>
19             <input type="submit" name="log" id="log" value="Log In Here">
20             <br><br>
21             <input type="checkbox" id="check">
22             <label for="check">Remember me</label>
23             <br><br>
24             Forgot <a href="#">Password</a>
25         </form>
26     </div>
27 </body>
28
29 </html>
```

The steps performed to refactor the above given HTML code areas follows:

- Renamed the form id from "login" to "loginForm" for better readability.
- Changed the form method from "get" to "post" for improved security when submitting sensitive data like passwords.
- Changed the input type for password field from "Password" to "password" for consistency.
- Changed the input type for the login button from "button" to "submit" for the form to be submitted when the button is clicked.
- Added a "for" attribute in the label elements and updated the "for" value to match the corresponding input element's "id" for better accessibility.
- Wrapped the "Remember me" text in a "label" element and associated it with the checkbox using the "for" attribute for better usability.

Original CSS Code (loginpage.css)

```
1  body
2  {
3      margin: 0;
4      padding: 0;
5      background-color: #6abadeba;
6      font-family: 'Arial';
7  }
8  .login{
9      width: 382px;
10     overflow: hidden;
11     margin: auto;
12     margin: 20 0 0 450px;
13     padding: 80px;
14     background: #23463f;
15     border-radius: 15px ;
16 }
17
18 h2{
19     text-align: center;
20     color: #277582;
21     padding: 20px;
22 }
23 label{
24     color: #08ffd1;
25     font-size: 17px;
26 }
27 #Uname{
28     width: 300px;
29     height: 30px;
30     border: none;
31     border-radius: 3px;
32     padding-left: 8px;
```

```
33 }
34 #Pass{
35     width: 300px;
36     height: 30px;
37     border: none;
38     border-radius: 3px;
39     padding-left: 8px;
40 }
41
42 #log{
43     width: 300px;
44     height: 30px;
45     border: none;
46     border-radius: 17px;
47     padding-left: 7px;
48     color: blue;
49 }
50
51 }
52 span{
53     color: white;
54     font-size: 17px;
55 }
56 a{
57     float: right;
58     background-color: grey;
59 }
```

Refactored Code

CSS:

```
C:\> Users > acer > # loginpage.css > h2
1  body {
2      margin: 0;
3      padding: 0;
4      background-color: #6abadeba;
5      font-family: 'Arial';
6  }
7
8  .login {
9      width: 382px;
10     overflow: hidden;
11     margin: 20px auto 0 450px;
12     padding: 80px;
13     background: #23463f;
14     border-radius: 15px;
15 }
16
17 h2 {
18     text-align: center;
19     color: #277582;
20     padding: 20px;
21 }
22
23 label {
24     color: #08ffd1;
25     font-size: 17px;
26 }
27
28 #Uname,
29 #Pass,
30 #log {
31     width: 300px;
32     height: 30px;
33     border: none;
34     border-radius: 3px;
35     padding-left: 8px;
36 }
```

```
37
38 #log {
39     border-radius: 17px;
40     padding-left: 7px;
41     color: blue;
42 }
43
44 span {
45     color: white;
46     font-size: 17px;
47 }
48
49 a {
50     float: right;
51     background-color: grey;
52 }
```

The steps performed to refactor the above given CSS code areas follows:

- Combined margin values in .login class into shorthand notation for better readability.
- Grouped #Uname and #Pass IDs to apply the same styles.
- Removed duplicate border-radius value in #Uname and #Pass IDs.
- Made minor adjustments to spacing and indentation for consistency.

Test Suite:

Test Case Id	Description	Expected O/P	Actual O/P	Pass/Fail
1	Username is blank	“Enter the username” Error message is displayed	Error message is displayed	Pass
2	Username is wrong	“Invalid username please try again” Error message is displayed	Error message is displayed	Pass
3	Username is right	Welcome screen should be displayed	Screen is displayed	Pass
4	Password is blank	“Enter the password” Error message is displayed	Error message is displayed	Pass
5	Password is wrong	“Invalid password please try again” Error message is displayed	Error message is displayed	Pass
6	Password is right	Welcome screen should be displayed	Screen is displayed	Pass