WEB DESIGN
(CSF 3133)

# **Lab 7**

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Program: Computer Science (Software Engineering)

# Lab Exercise

## Source Code

Login page:

```
login.html > ⬡ html > ⬡ body > ⬡ main.login > ⬡ form > ⬡ button#login-btn
1    <!DOCTYPE html>
2    <html lang="en">
3    <head>
4        <meta charset="UTF-8">
5        <meta name="viewport" content="width=device-width, initial-scale=1.0">
6        <link rel="stylesheet" href="style.css">
7        <title>My Website</title>
8    </head>
9    <body>
10       <header>
11           <h1>Game Community</h1>
12       </header>
13
14       <main class="login">
15           <!--Background image-->
16           <img src="Images/login-background.jpg" alt="Login image background">
17
18           <!--Form-->
19           <form>
20               <h2>Log in</h2>
21               <input type="text" placeholder="Username" required id="username">
22               <input type="password" placeholder="Password" id="password" required>
23               <button type="button" id="login-btn">Log In</button>
24           </form>
25       </main>
26
27       <script src="script.js"></script>
28   </body>
29   </html>
```

# Home page:

```
<> index.html > ⬡ html > ⬡ body > ⬡ div.side-nav > ⬡ a
1   <!DOCTYPE html>
2   <html lang="en">
3
4   <head>
5       <meta charset="UTF-8">
6       <meta name="viewport" content="width=device-width, initial-scale=1.0">
7       <link rel="stylesheet" href="style.css">
8       <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.5.0/css/all.min.css">
9       <title>My Website</title>
10  </head>
11
12  <body>
13      <header>
14          <h1>Game Community</h1>
15      </header>
16
17      <!--Loading-->
18      <div class="loading-container" id="loading-container">
19          <div class="loading-group">
20              <h1>Loading Page...</h1>
21              <div class="progress-container">
22                  <div class="progress-bar" id="progress-bar"></div>
23              </div>
24          </div>
25      </div>
26
27      <!--Banner-->
28      <div class="banner-container">
29          <img class="banner" src="Images/login-background.jpg" alt="Banner">
30          <h2>Welcome back, Admin</h2>
31      </div>
32
```

```
33      <!--Side nav-->
34      <div class="side-nav">
35          <a href="index.html#new">What's new</a>
36          <a href="index.html#forza">Forza Horizon</a>
37          <a href="index.html#minecraft">Minecraft</a>
38      </div>
39
40      <!--Contents-->
41      <div class="section-container">
42
43          <!--Slideshow-->
44          <section class="slideshow" id="new">
45              <div class="slide"> <img class="slide-img" src="Images/slideshow1.jpg" alt="Game banner"></div>
46              <div class="slide"> <img class="slide-img" src="Images/slideshow2.jpg" alt="Game banner"></div>
47              <div class="slide"> <img class="slide-img" src="Images/slideshow3.jpg" alt="Forza banner"></div>
48          </section>
49
50          <!--Forza horizon info-->
51          <section id="forza">
52              <div class="collapse-container">
53                  <img src="Images/forza.jfif" class="section-img" alt="Forza Horizon 5">
54                  <p>
55                      Forza Horizon is an open-world racing game where players explore stunning landscapes, race on roads
56                      and off-road tracks, and customize their cars. With dynamic weather, changing seasons, and exciting
57                      events, it combines speed, adventure, and freedom in a vibrant, living world.
58                  </p>
59                  <button id="collapse-button">More</button>
60
```

```html
61                    <!--Collapsable content-->
62                    <div class="inner-content" id="inner-content">
63                        <div class="profile-card">
64                            <div class="card-header">
65                                <h2>Meet The Creator</h2>
66                            </div>
67                            <img src="Images/mike_brown.jpg" alt="Mike Brown" class="profile-image">
68                            <h3 class="profile-name">Mike Brown</h3>
69                            <p class="profile-title">Lead Creative Designer</p>
70                            <p class="profile-education">Playground Games</p>
71                            <div class="social-links">
72                                <a href="https://x.com/FlawlessC0wboy/" class="social-icon"><i
73                                    class="fa-brands fa-twitter"></i></a>
74                                <a href="https://www.facebook.com/ForzaHorizon/" class="social-icon"><i
75                                    class="fa-brands fa-linkedin"></i></a>
76                                <a href="https://www.reddit.com/r/forza/" class="social-icon"><i
77                                    class="fa-brands fa-facebook"></i></a>
78                            </div>
79
80                            <button class="contact-btn">Contact</button>
81                        </div>
82                    </div>
83                </div>
```

```html
86          <!--Minecraft info-->
87          <section id="minecraft">
88              <div class="collapse-container">
89                  <img src="Images/minecraft.jpg" class="section-img" alt="Minecraft">
90                  <p>
91                      Minecraft is a sandbox video game that lets players explore, build, and survive in a blocky,
92                      procedurally generated world. Players can gather resources, craft tools, construct buildings, and
93                      face challenges like monsters and hunger. With creative and survival modes, Minecraft encourages
94                      creativity, exploration, and problem-solving, making it one of the most popular and versatile games
95                      for all ages.
96                  </p>
97                  <button id="collapse-button-1">More</button>
98
99                  <!--Collapsable content-->
100                 <div class="inner-content" id="inner-content-1">
101                     <div class="profile-card">
102                         <div class="card-header">
103                             <h2>Meet The Creator</h2>
104                         </div>
105                         <img src="Images/markus-persson.jpg" alt="Markus Persson" class="profile-image">
106                         <h3 class="profile-name">Markus Persson</h3>
107                         <p class="profile-title">Swedish Video Game Programmer and Designer</p>
108                         <p class="profile-education">Växjö University</p>
109                         <div class="social-links">
110                             <a href="https://en.wikipedia.org/wiki/Markus_Persson" class="social-icon"><i
111                                 class="fa-solid fa-globe"></i></a>
112                             <a href="https://x.com/notch" class="social-icon"><i class="fa-brands fa-twitter"></i></a>
113                             <a href="https://www.facebook.com/xNotch/" class="social-icon"><i
114                                 class="fa-brands fa-linkedin"></i></a>
115                             <a href="https://www.facebook.com/xNotch/" class="social-icon"><i
116                                 class="fa-brands fa-facebook"></i></a>
117                         </div>
118
```

```html
119                         <button class="contact-btn">Contact</button>
120                     </div>
121                 </div>
122             </div>
123         </section>
124     </div>
125
126     <script src="script2.js"></script>
127 </body>
128
129 </html>
```

4

## Stylesheet:

```css
1   body {
2       margin: 0;
3   }
4
5   header {
6       background-color: hsl(238, 92%, 23%);
7       border-bottom: .5em solid hsl(218, 88%, 45%);
8   }
9
10  header h1 {
11      padding: .6em .5em;
12      color: white;
13      font-style: italic;
14      margin: 0;
15      text-transform: uppercase;
16  }
17
18  /** Login **/
19  .login {
20      width: 100%;
21      height: 100vh;
22      overflow: hidden;
23  }
24
25  .login img {
26      object-fit: cover;
27      width: 100%;
28  }
```

```css
30  .login form {
31      position: absolute;
32      top: 50%;
33      left: 50%;
34      transform: translate(-50%, -50%);
35      width: 30%;
36      background-color: hsl(218, 100%, 82%);
37      display: flex;
38      flex-direction: column;
39      align-items: center;
40      border-radius: 1em;
41      height: 50vh;
42      box-shadow: 1px 5px 10px hsl(222, 61%, 39%);
43      overflow: hidden;
44      border: .2em solid rgb(11, 57, 222);
45  }
46
47  .login form h2 {
48      background-color: hsl(218, 94%, 37%);
49      width: 100%;
50      text-align: center;
51      font-size: 2.5em;
52      color: hsl(0, 0%, 100%);
53      padding: .2em;
54      margin: 0;
55      margin-bottom: .4em;
56  }
57
58  .login form input {
59      display: block;
60      width: 17em;
61      height: 1.7em;
62      margin: 1em;
63      border: .1em solid hsl(218, 94%, 37%);
64      border-radius: .2em;
65  }
```

```css
67   .login button {
68       display: block;
69       width: 10em;
70       height: 2em;
71       margin-top: 2em;
72       font-size: 1.1em;
73       background-color: ▪hsl(116, 97%, 37%);
74       border-style: none;
75       border-radius: 1em;
76       color: ▪white;
77   }
78
79   .login button:hover {
80       background-color: ▪hsl(116, 94%, 19%);
81   }
82
83   /**Loading**/
84
85   .loading-container {
86       position: fixed;
87       height: 100vh;
88       width: 100%;
89       overflow: hidden;
90       display: flex;
91       align-items: baseline;
92       justify-content: center;
93       background-color: ▪hsl(208, 82%, 87%);
94       z-index: 10;
95   }
96
97   .loading-group {
98       margin-top: 10%;
99       width: 50%;
100  }
```

```
102    .loading-group h1 {
103        text-align: center;
104        color: ⬜rgb(16, 10, 55);
105    }
106
107    .progress-container {
108        width: 100%;
109        height: 2em;
110        background-color: ⬛rgb(16, 10, 55);
111        border-radius: 1em;
112        overflow: hidden;
113    }
114
115    .progress-bar {
116        height: 100%;
117        width: 0%;
118        background-color: 🟦rgb(31, 69, 172);
119        transition: width 0.3s ease-in-out;
120    }
121
122
123    /** Banner**/
124
125    .banner-container {
126        background-color: 🟪blueviolet;
127        width: 100%;
128        height: 40vh;
129        overflow: hidden;
130    }
131
132    .banner-container img {
133        object-fit: cover;
134        transform: translateY(-50%);
135        width: 100%;
136    }
```

```
138    .banner-container h2 {
139        position: absolute;
140        top: 50%;
141        left: 50%;
142        transform: translate(-50%, -150%);
143        font-size: 2em;
144        color: ■white;
145        background-color: □hsla(0, 0%, 4%, 0.666);
146        padding: 1em 5em;
147        border-radius: 1em;
148    }
149
150    /**Side nav**/
151    .side-nav {
152        position: fixed;
153        left: 0%;
154        width: 30vh;
155        background-color: □hsla(0, 0%, 0%, 0.6);
156        display: flex;
157        flex-direction: column;
158    }
159
160    .side-nav a {
161        background-color: ■rgb(31, 69, 172);
162        padding: .5em;
163        margin: .5em .5em;
164        text-align: center;
165        font: 2em;
166        text-decoration: none;
167        color: ■white;
168        border-radius: .5em;
169    }
170
171    .side-nav a:hover {
172        background-color: □rgb(7, 28, 86);
173    }
```

```css
176    /**Section*/
177    .section-container {
178        background-color: ▆rgb(205, 229, 255);
179        padding-left: 20%;
180        padding-top: 1%;
181        font-size: 1.5em;
182    }
183
184    .section-container section {
185        background-color: ▆rgb(31, 69, 172);
186        margin: 1em 0;
187        width: 80%;
188        border-radius: .2em;
189        padding: 1em;
190        color: ▆white;
191    }
192
193    .section-img {
194        width: 50%;
195        border-radius: .5em;
196        border: .2em solid ▆white;
197    }
198
199    .collapse-container {
200        display: flex;
201        flex-direction: column;
202        align-items: center;
203        justify-content: center;
204        text-align: justify;
205
206    }
```

```css
208   .collapse-container button {
209       border-style: none;
210       padding: 1em 2em;
211       background-color: ■rgb(118, 150, 238);
212       border-radius: 1em;
213       font-weight: bold;
214       font-size: .6em;
215   }
216
217   .inner-content {
218       display: none;
219   }
220
221   .collapse-container button:hover {
222       background-color: ■rgb(11, 39, 116);
223       color: ■white;
224   }
225
226   /** Slideshow*/
227
228   .slide {
229       width: 90vh;
230       height: 50vh;
231       border-radius: 1em;
232       border: .2em solid ■white;
233       overflow: hidden;
234       display: none;
235       margin: auto;
236       opacity: 0;
237       transition: opacity .3s ease-in-out;
238   }
239
240   .slide-img {
241       width: 100%;
242       height: 100%;
243   }
```

```css
245    /*Profile*/
246  ∨ .profile-card{
247        margin-top: 5%;
248        width: 300px;
249        background: ⬜#ffffff;
250        border-radius: 10px;
251        box-shadow: 0 4px 8px ⬜rgba(0, 0, 0, .2);
252        text-align: center;
253        padding: 20px;
254        overflow: hidden;
255    }
256
257  ∨ .card-header h2{
258        font-size: 18px;
259        color: ⬜#555;
260        margin: 0 0 20px
261    }
262
263  ∨ .profile-image {
264        width: 120px;
265        height: 120px;
266        border-radius: 50%;
267        margin: 0 auto;
268        object-fit: cover;
269        border: 3px solid ⬜#ddd;
270    }
271
272  ∨ .profile-name{
273        font-size: 20px;
274        font-weight: bold;
275        color: ⬜#333;
276        margin: 15px 0 5 px;
277    }
278
```

```
279    .profile-title {
280        font-size: 14px;
281        color: ⬜#777;
282        margin-bottom: 5px
283    }
284
285    .profile-education {
286        font-size: 14px;
287        color: ⬜#999;
288        margin-bottom: 15px;
289    }
290
291    .social-links {
292        margin: 15px 0;
293    }
294
295    .social-links a{
296        text-decoration: none;
297        font-size: 20px;
298        color: ⬜#555;
299        margin: 0 10px;
300        transition: color 0.3 ease;
301    }
302
303
304    .social-links a:hover {
305        color: 🟦#007BFF;
306    }
307
```

```css
307
308    .contact-btn {
309        background: #0811b7;
310        color: #fff;
311        border: none;
312        padding: 10px 20px;
313        border-radius: 5px;
314        font-size: 14px;
315        cursor: pointer;
316    }
317
318    .contact-btn:hover{
319        background-color: #333;
320    }
321
322
323
324    @keyframes fade-out {
325        from {
326            opacity: 100%;
327        }
328
329        to {
330            opacity: 0%;
331        }
332    }
```

## JavaScript Login Page:

```
scriptjs > load
 1   //Config
 2   const USERNAME = "admin";
 3   const PASSWORD = "123";
 4
 5   //Login
 6   document.getElementById('login-btn').addEventListener("click", function(){
 7       let userInputUsername = document.getElementById('username');
 8       let userInputPassword = document.getElementById('password');
 9
10       if (userInputUsername.value === USERNAME && userInputPassword.value === PASSWORD){
11           window.location.href = "index.html"
12       } else{
13           alert("Username or password is wrong: The correct one is Username: "+USERNAME+ " Password: "+PASSWORD);
14       }
15   });
16
17
18   //Wait function
19   function wait(ms){
20       return new Promise(resolve => setTimeout(resolve, ms));
21   }
22
23   async function load(progressbar){
24       progressbar.style.width = "0%";
25
26       for (let i = 0; i <= 100; i+=10){
27           await wait(1000);
28           progressbar.style.width = `${i}%`;
29       }
30   }
31
```

## JavaScript Home Page:
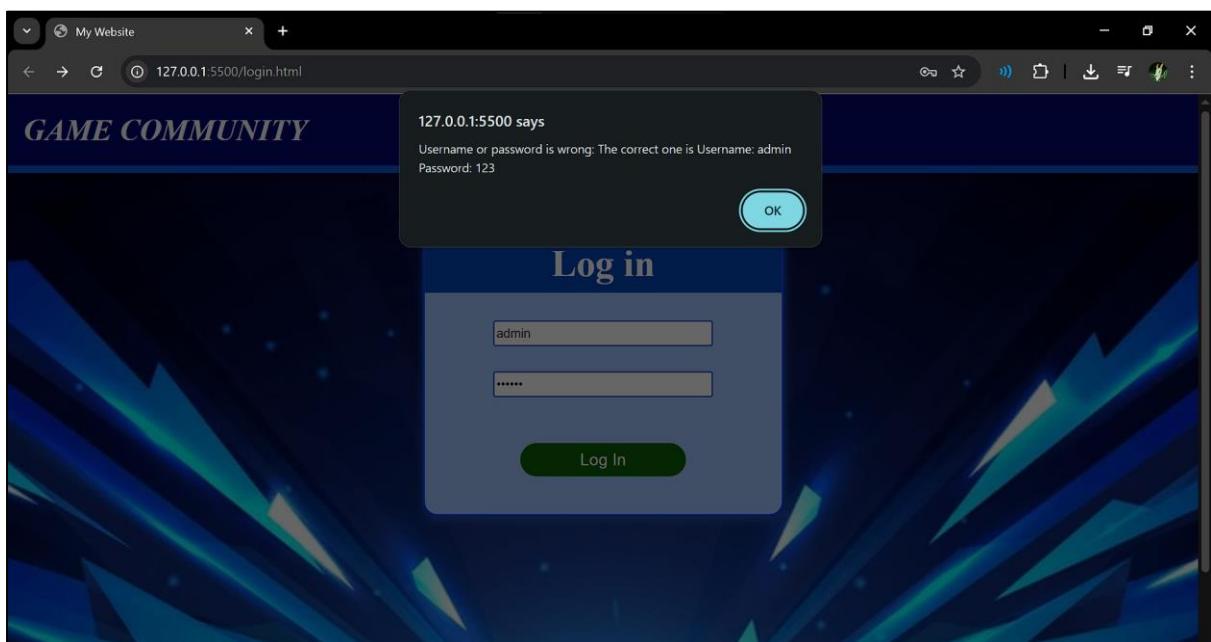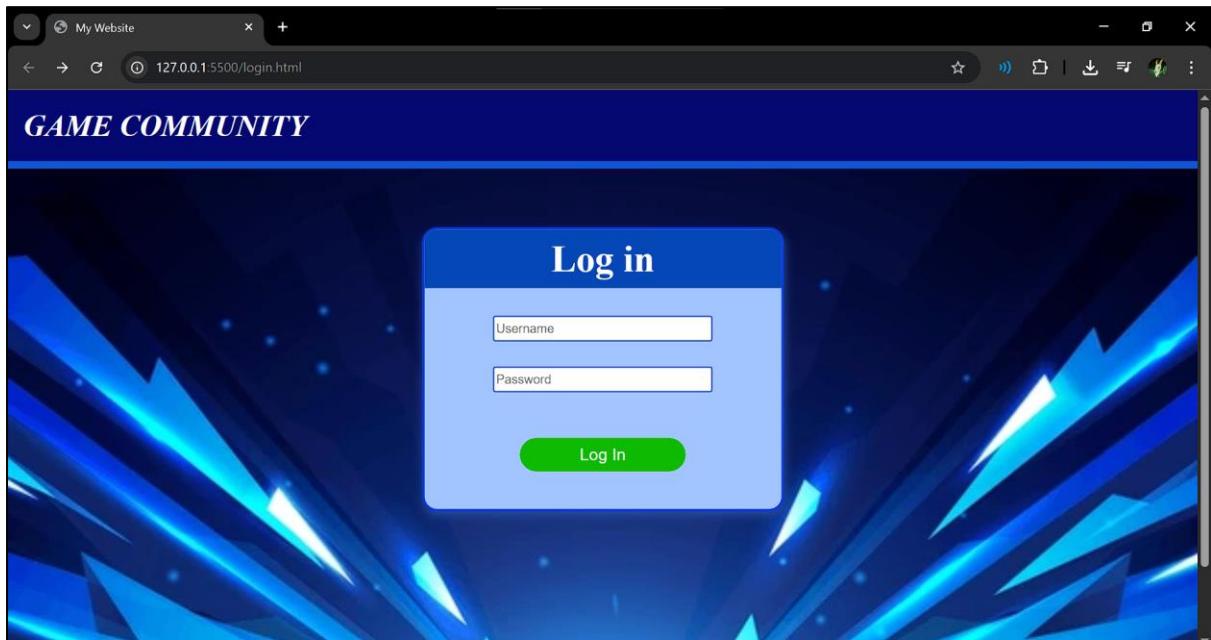
```
 1
 2   document.addEventListener('DOMContentLoaded', function () {
 3       let progressbar = document.getElementById("progress-bar");
 4       let progressContainer = document.getElementById("loading-container")
 5       load(progressbar, progressContainer);
 6       slideshow()
 7   });
 8
 9   document.getElementById("collapse-button").addEventListener("click",function(){
10       let innerContent = document.getElementById("inner-content");
11
12       if (innerContent.style.display === "block"){
13           innerContent.style.display = "none"
14       }else{
15           innerContent.style.display = "block"
16       }
17   });
18
19   document.getElementById("collapse-button-1").addEventListener("click",function(){
20       let innerContent = document.getElementById("inner-content-1");
21
22       if (innerContent.style.display === "block"){
23           innerContent.style.display = "none"
24       }else{
25           innerContent.style.display = "block"
26       }
27   });
28
29   //Wait function
30   function wait(ms) {
31       return new Promise(resolve => setTimeout(resolve, ms));
32   }
```
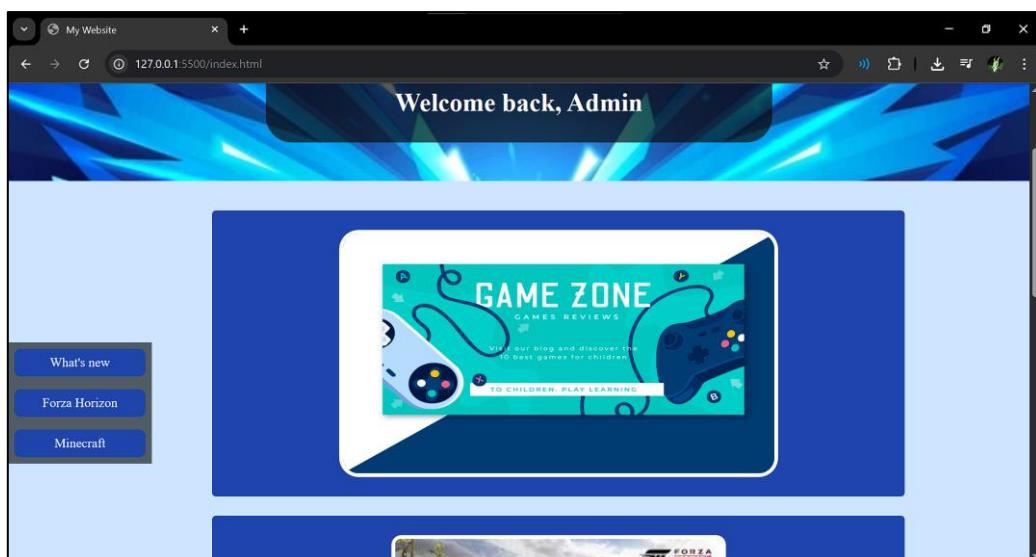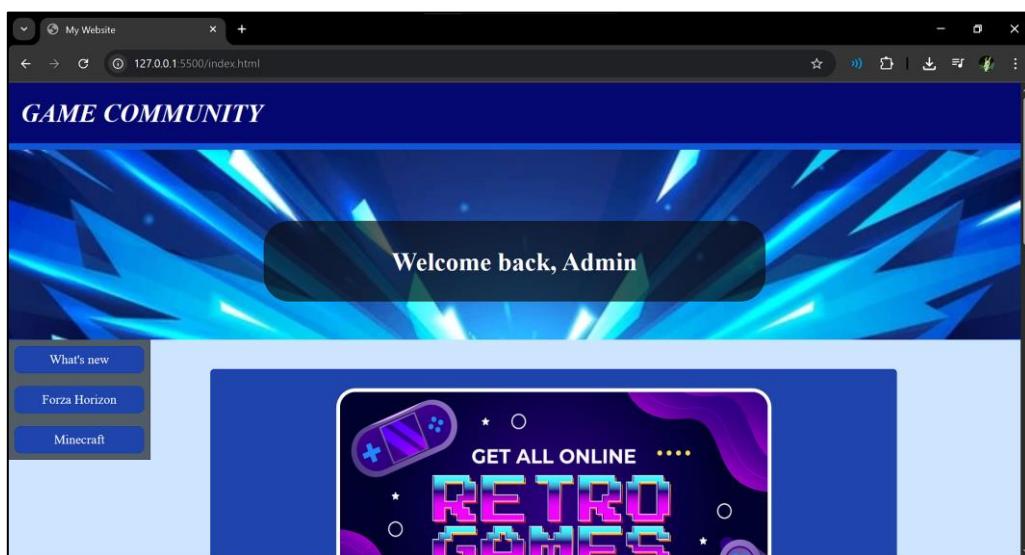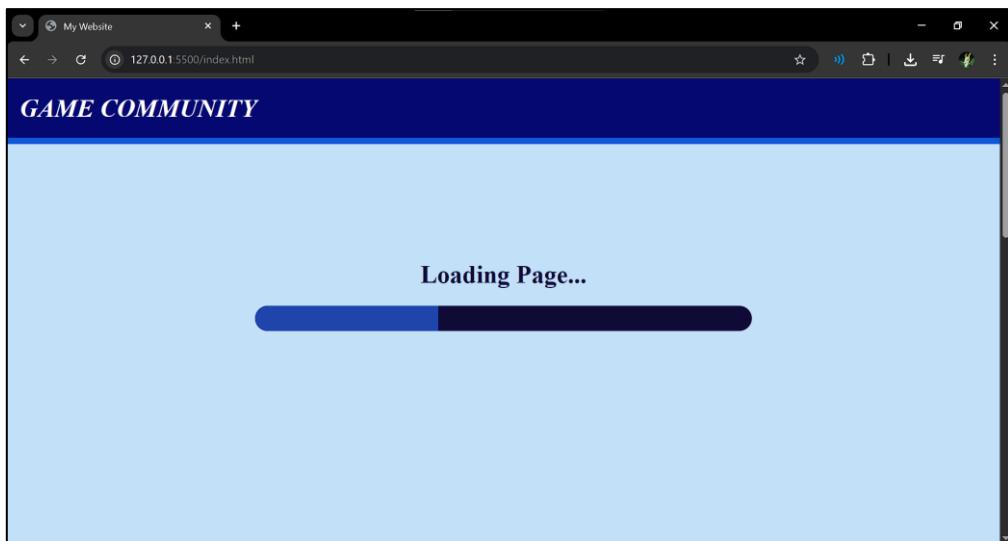
```
34    //Loading bar
35    async function load(progressbar, progressContainer) {
36        progressbar.style.width = "0%";
37
38        for (let i = 0; i <= 100; i += 10) {
39            await wait((Math.random() * 50) + 1);
40            progressbar.style.width = `${i}%`;
41            console.log(1);
42        }
43
44        progressContainer.style.animation = "fade-out 0.3s ease";
45        await wait(100);
46        progressContainer.style.display = "none";
47    }
48
49    //Slide show
50    async function slideshow() {
51        let slideshows = document.getElementsByClassName("slide")
52
53        let prevSlidshow = slideshows[0];
54        while (true) {
55
56            for (let i = 0; i < slideshows.length; i++) {
57                prevSlidshow.style.opacity = "0";
58                await wait(1000);
59                prevSlidshow.style.display = "none";
60
61                slideshows[i].style.display = "block";
62                await wait(10);
63                slideshows[i].style.opacity = "1";
64                prevSlidshow = slideshows[i];
65                await wait(5000);
66            }
67        }
68    }
```

Output Login Page:

Output Home page:

Forza Horizon is an open-world racing game where players explore stunning landscapes, race on roads and off-road tracks, and customize their cars. With dynamic weather, changing seasons, and exciting events, it combines speed, adventure, and freedom in a vibrant, living world.

**Meet The Creator**

**Mike Brown**

Lead Creative Designer

Playground Games