Web-Based Interface Design

(CSF 3133)

LAB REPORT 7

NAME: WONG CAI YI
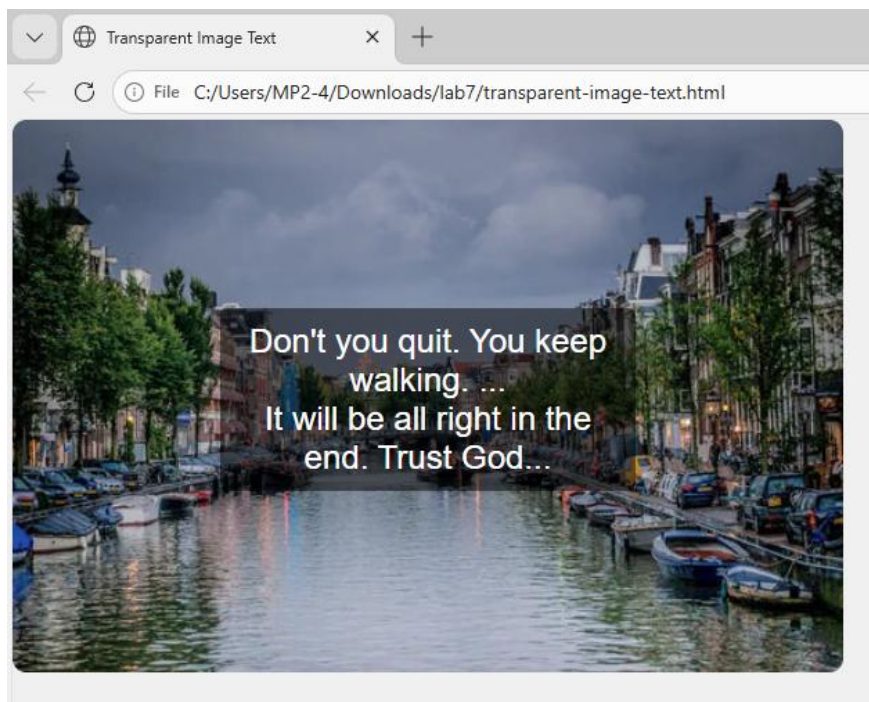
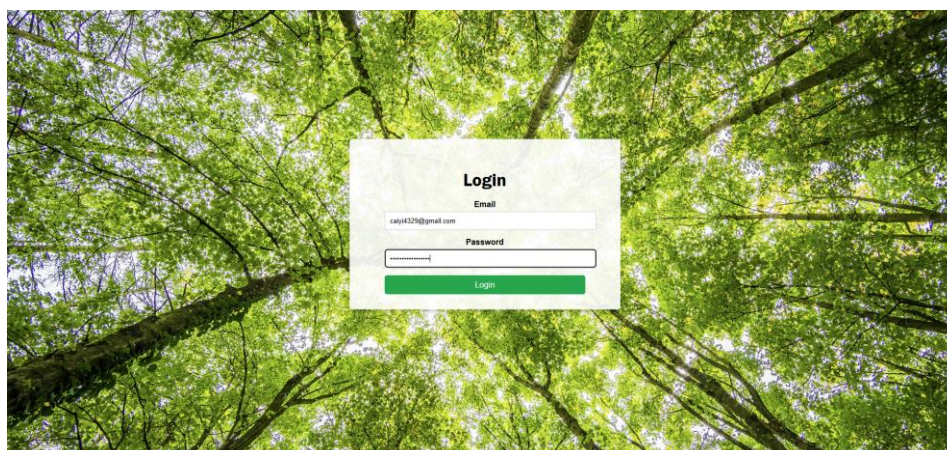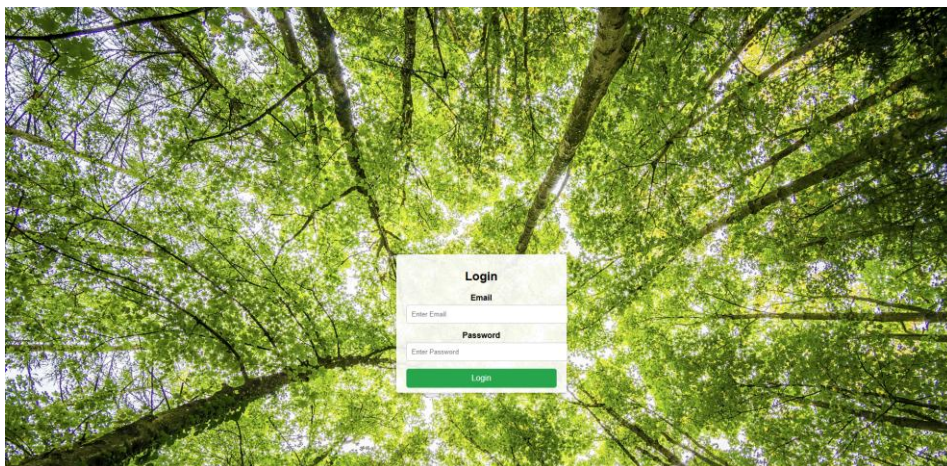MATRIC NO: S76084

DATE: 10 December 2025

GROUP: K4
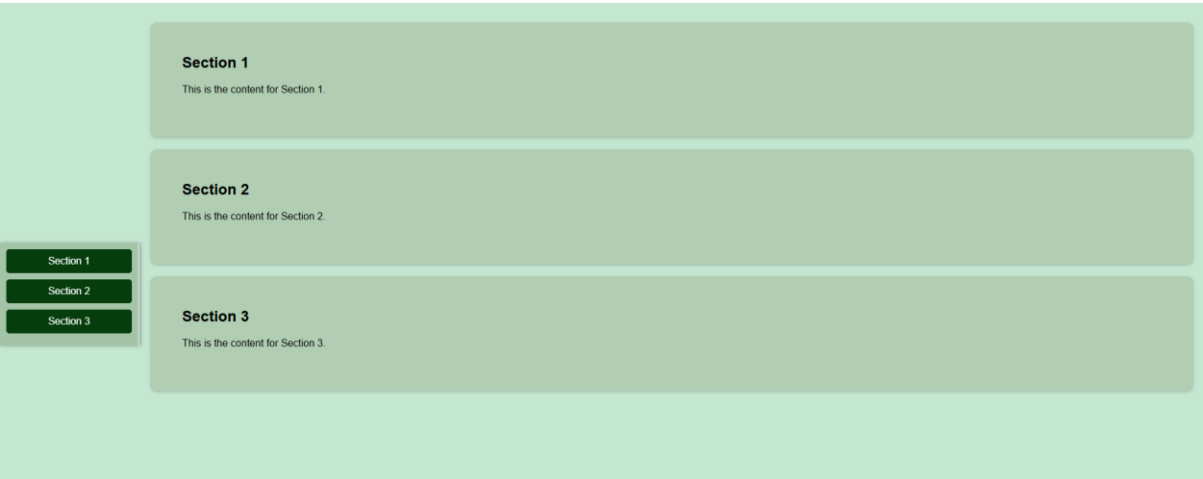
PROGRAMME: COMPUTER SCIENCE (SOFTWARE ENGINEERING)

1.1 Create a Transparent Image Text

1.2 Create a Form on Image

1.3 Create a Side Navigation Buttons

Section 1

This is the content for Section 1.

Section 2

This is the content for Section 2.

Section 1
Section 2
Section 3
Section 4

Section 3

This is the content for Section 3.

Section 4

This is the content for Section 4.

Section 1

This is the content for Section 1.

Section 2

This is the content for Section 2.

Section 1
Section 2
Section 3

Section 3

This is the content for Section 3.

1.4 Create Automatic Slideshow
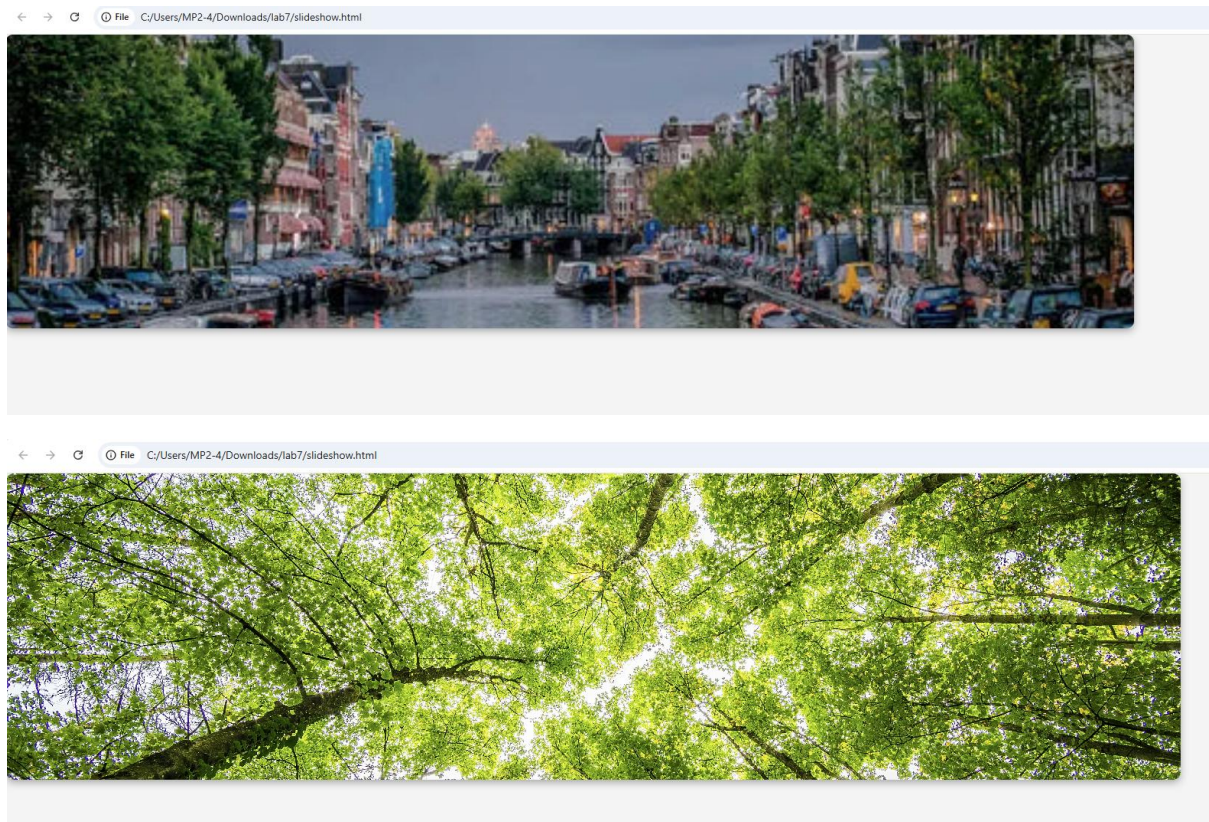
1.5 Create Profile Card
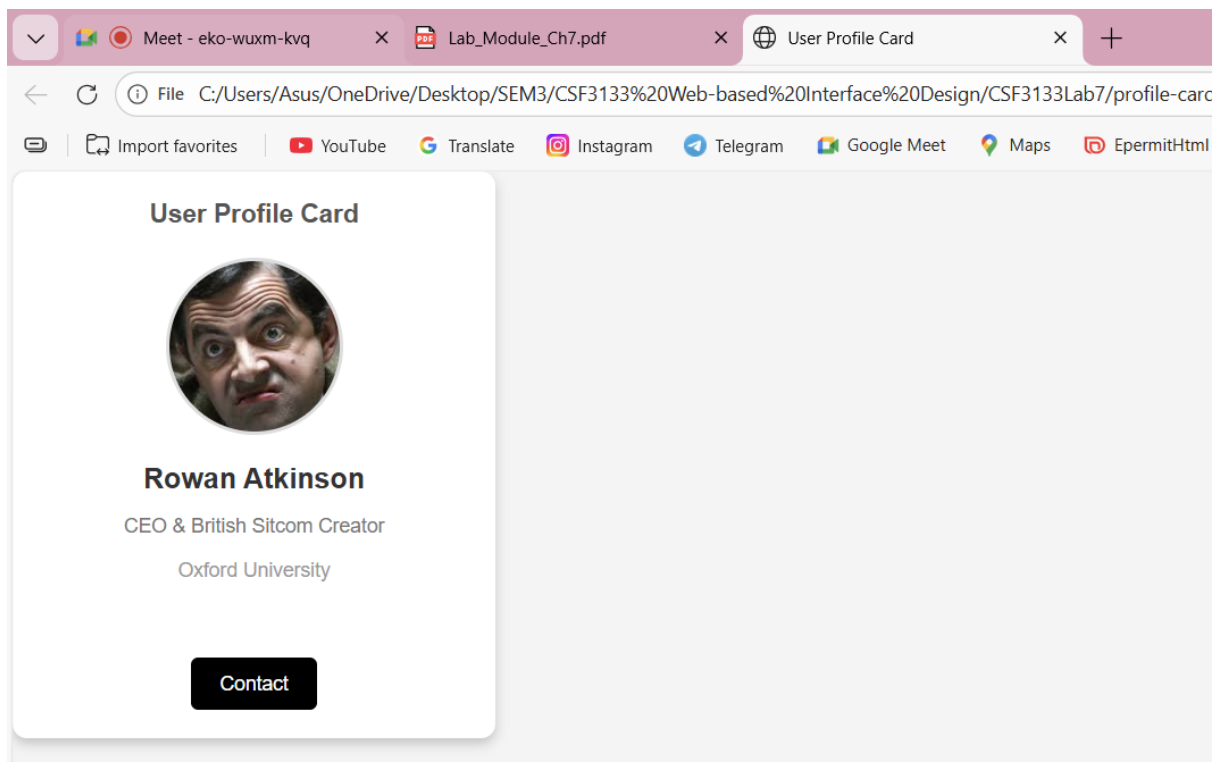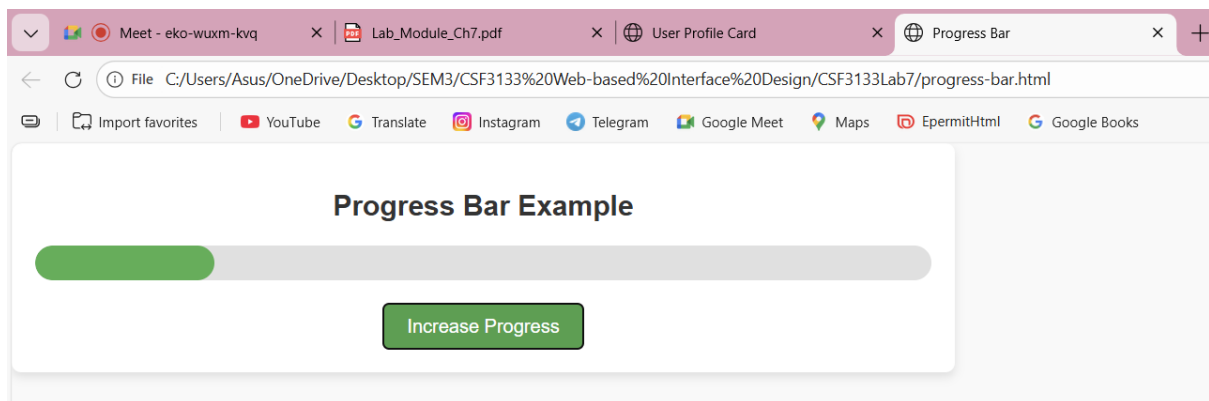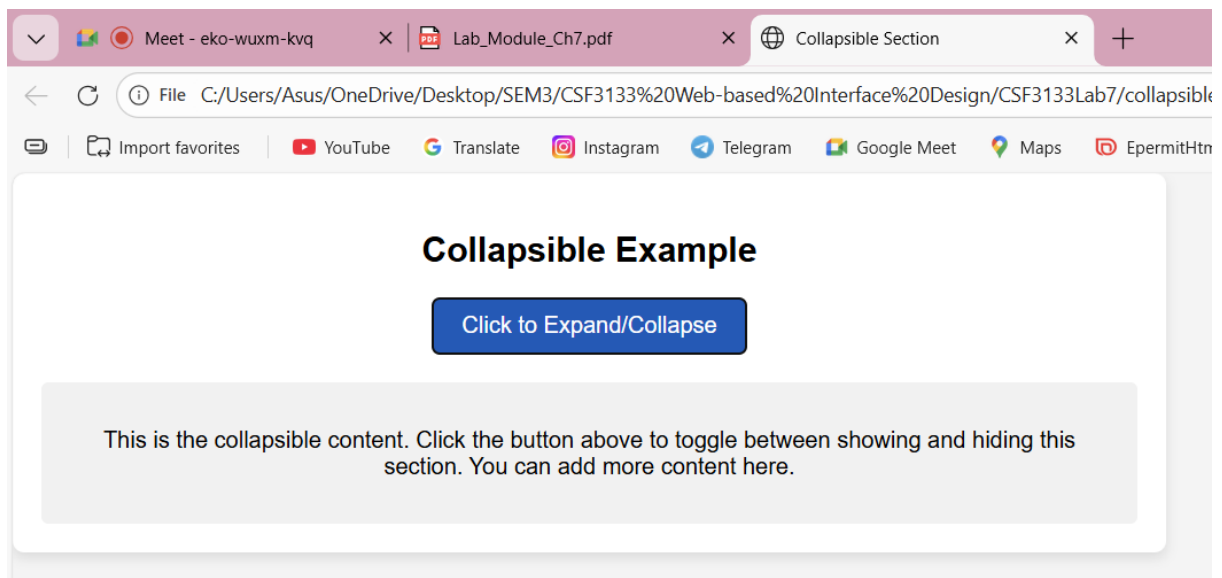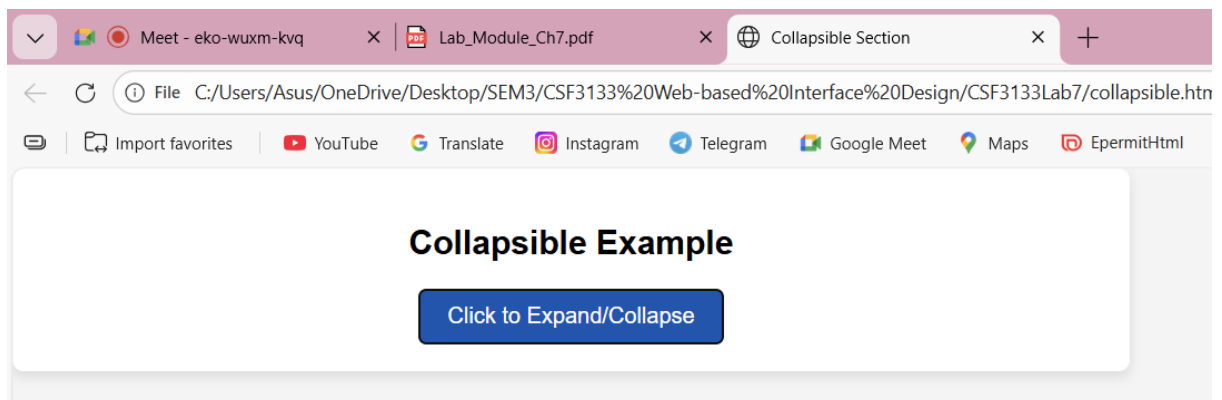
1.6 Create Progress Bar

1.7 Create a Collapsible

Lab Exercise

```
index.html ✕        main.html        JS script.js        # style.css

LabExercise > <> index.html > ⬡ html > ⬡ body > ⬡ div.image-container > ⬡ div.form-container > ⬡ h2
 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       <title>My Lab 7 Login page</title>
 7       <link rel="stylesheet" href="style.css">
 8       <script src="script.js"></script>
 9   </head>
10   <body>
11       <div class="image-container">
12           <img src="background.jpg" alt="scenery">
13           <div class="form-container">
14               <h1>Intro to Cuernos del Paine🏔</h1>
15               <h2>Login</h2>
16               <form onsubmit="login(); return false;">
17               <label for="userid">User Id</label><br>
18               <input type="userid" id="userid" placeholder="Enter User Id" required>
19               <br>
20               <label for="password">Password</label><br>
21               <input type="password" id="password" placeholder="Enter Password" required>
22               <br>
23               <button type="submit">Login</button>
24           </form>
25           </div>
26       </div>
27   </body>
28   </html>
29
```

```
<> index.html        <> main.html ✕        JS script.js        # style.css

LabExercise > <> main.html > ⬡ html > ⬡ body
 1   <!DOCTYPE html>
 2   <html>
 3   <head>
 4       <meta charset="UTF-8">
 5       <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6       <title>My Lab 7 Main Page</title>
 7       <link rel="stylesheet" href="style.css">
 8
 9   </head>
10   <body>
11       <header id="home">
12           <h1>Cuernos del Paine🏔</h1>
13       </header>
14       <!-- Side Navigation -->
15       <nav class="side-nav">
16           <a href="#profile">Profile</a>
17           <a href="#intro">Introduction</a>
18           <a href="#progress">Skills</a>
19           <a href="#slide">Slide</a>
20           <a href="#faq">FAQ</a>
21       </nav>
22       <!-- Main page content wrapper -->
23       <div class="page-content">
24           <!-- Profile section -->
25           <section id="profile">
26               <h2>WebPage Creator</h2>
27
28               <!-- Profile card -->
29               <div class="card">
30               <img src="CAIYI_PIC_report.png" alt="Profile Image">
31               <h2>Wong Cai Yi</h2>
32               <p>Computer Science Student | Front-End Learner</p>
33               <!-- Simple icon display -->
34               <div class="icons">
35                   <span>🌐</span>
36                   <span>📱</span>
37                   <span>📧</span>
```

```html
        </div>
        <!-- Personal description -->
        <p>Age: 20 years old <br>- Fear of insects. <br>- Like quiet place -- <i>no people, no insects.</i><br>
            Bio... <br>
            A kind of person who still feels sleepy even after sleeping a lot... <br>
            Dreams of becoming a rich woman --- because money solves everything... <br>
            <strong>Bathing, Eating, Shopping, Sleeping </strong> are my ways to calm down <br>
            when I facing a problem in my lifeee...
        </p>
    </div>
</section>

<!-- Introduction section -->
<section id="intro">
    <article>
        <h2>Introduction</h2>
        <h3>Where to find them?</h3>
        Torres del Paine National Park, Chile <br>

        <h3>What are they?</h3>
        The Cuernos del Paine or 'Paine horns' is a collective name given to a set of
        spiky granite peaks in <b>Torres del Paine National Park</b>, all of which stand at over 2000 metres high. <br><br>

        The spikes have fittingly sharp names: to the north, the <i>Aleta de Tiburón</i> (Shark's Fin),
        to the east, from north to south, <i>Fortaleza</i> (Fortress), <i>La Espada</i> (The Sword), <i>La Hoja</i>
        (The Blade), <i>La Máscara</i> (The Mask), <i>Cuerno Norte</i> (North Horn), and <i>Cuerno Principal</i> (Main Horn). <br><br>

        The Cuernos del Paine also lend their name to one of the park's 'refugios' or 'lodges',
        Refugio and Camping Los Cuernos. <br>

        <h3>How can I see them?</h3>
        The Cuernos are located in the middle of the W Trek, the most popular route for trekking
        in Torres del Paine National Park. Best views are from the top of <b>Valle Frances</b>,
        often hiked on day 3 of a traditional W Trek. <br>
    </article>
</section>

<!-- Progress bar section (JavaScript interaction) -->
<section id="progress">
    <h2>Popular Level of Cuernos del Paine</h2>
    <!-- Progress bar container -->
    <div class="progress-container">
        <div class="progress-bar" id="progressBar"></div>
    </div><br>
    <!-- Button triggers JavaScript function -->
    <button class="progress-button" onclick="loadProgress()">Load Level</button>
</section>

<!-- Image slideshow section -->
<section id="slide">
    <h2>Image of Cuernos del Paine</h2>
    <!-- Slideshow container -->
    <div class="slideshow-container">

        <!-- Slide 1 -->
        <div class="mySlides fade">
        <div class="numbertext">1 / 3</div>
        <img src="cuernosdelpaine1.jpg" style="width:100%">
        <div class="text">The View of Cuernos del Paine</div>
        </div>
```

```
 98                <!-- Slide 2 -->
 99                <div class="mySlides fade">
100                <div class="numbertext">2 / 3</div>
101                <img src="View-of-the-Horns-Left.jpg" style="width:100%">
102                <div class="text">The Left View of Cuernos del Paine</div>
103                </div>
104                <!-- Slide 3 -->
105                <div class="mySlides fade">
106                <div class="numbertext">3 / 3</div>
107                <img src="trekking.jpg" style="width:100%">
108                <div class="text">Trekking Cuernos del Paine</div>
109                </div>
110
111                </div>
112                <br>
113                <!-- Slideshow dots -->
114                <div style="text-align:center">
115                <span class="dot"></span>
116                <span class="dot"></span>
117                <span class="dot"></span>
118                </div>
119          </section>
120
121          <!-- FAQ collapsible section -->
122          <section id="faq">
123              <h2>FAQ</h2>
124              <!-- Collapsible button -->
125              <button type="button" class="collapsible">Read Before You Go: Booking, Timing & Weather</button>
126              <!-- Hidden collapsible content -->
127              <div class="content">
128              <h3>Do I need to book accommodation in advance to see the Cuernos?</h3>
129              <strong>Absolutely, yes.</strong> All accommodation—including campsites and refugios—along the
130              W and O circuits (like Refugio Los Cuernos) must be booked well in advance,
131              sometimes 6-12 months ahead, especially for high season.
132              <br>
133              <h3>When is the best time of year to visit?</h3>
134              The <strong>High Season (October to April)</strong> offers the warmest weather,
135              longest daylight hours, and fully operational services. The peak of summer
136              (December-February) is the busiest. <strong>Shoulder Seasons (October-November and March-April)</strong>
137              offer a good balance of weather, fewer crowds, and lower prices.
138              <br>
139              <h3>What is the weather like near the Cuernos?</h3>
140              <strong>Weather in Patagonia is notoriously unpredictable.</strong> Expect strong winds, especially in summer,
141              and the possibility of experiencing all four seasons in a single day (sunshine, rain, and even snow).
142              Layered, waterproof, and windproof clothing is essential.
143              </div>
144          </section>
145      </div>
146
147      <!-- External JavaScript file -->
148      <script src="script.js"></script>
149 </body>
150 </html>
```

```javascript
1   // login function and move to next page
2   function login() {
3       var user = document.getElementById("userid").value;
4       var pass = document.getElementById("password").value;
5       if(user == "caiyi" && pass == "pass123") {
6           alert("Logged In");
7           window.location.href="main.html" // Move to next page
8           return false;
9       } else {
10          alert("Wrong User ID or Password");
11          return false;
12      }
13  }
14
15  // slide show
16  let slideIndex = 0;
17  showSlides(); // Start slideshow automatically
18
19  function showSlides() {
20    let i;
21    let slides = document.getElementsByClassName("mySlides");
22    let dots = document.getElementsByClassName("dot");
23
24    // Hide all slides
25    for (i = 0; i < slides.length; i++) {
26      slides[i].style.display = "none";
27    }
28    // Move to next slide
29    slideIndex++;
30    if (slideIndex > slides.length) {slideIndex = 1}
31    // Remove active class from dots
32    for (i = 0; i < dots.length; i++) {
33      dots[i].className = dots[i].className.replace(" active", "");
34    }
35    // Show current slide and activate dot
36    slides[slideIndex-1].style.display = "block";
37    dots[slideIndex-1].className += " active";
```

```javascript
39      setTimeout(showSlides, 2000); // Change image every 2 seconds
40  }
41
42  // Progress Bar
43  function loadProgress() {
44      const bar = document.getElementById("progressBar");
45      let width = 0;
46      // Increase progress width gradually
47      const interval = setInterval(() => {
48          if (width >= 80) {
49              clearInterval(interval); // Stop at 80%
50          } else {
51              width++;
52              bar.style.width = width + "%";
53          }
54      }, 20);
55  }
56
57  /**Collapsible section**/
58  document.addEventListener("DOMContentLoaded", function () {
59      const collapsibleButton = document.querySelector(".collapsible");
60      const content = document.querySelector(".content");
61
62      // Toggle FAQ content display
63      collapsibleButton.addEventListener("click", function () {
64          if (content.style.display === "block") {
65              content.style.display = "none";
66          } else {
67              content.style.display = "block";
68          }
69      });
70  });
```

```css
1   /*header 1*/
2   h1{
3       text-align: center;
4       color: #000b36;
5   }
6
7   /* Login Card */
8   .form-container {
9       position: absolute;
10      top: 50%;
11      left: 50%;
12      transform: translate(-50%, -50%);
13
14      background: rgba(207, 233, 255, 0.80);
15      padding: 25px 65px 25px 40px;
16      width: 450px;
17
18      border-radius: 12px;
19      box-shadow: 0 8px 20px rgba(0, 0, 0, 0.5);
20  }
21
22  /* Title */
23  .form-container h2 {
24      color: #333;
25      text-align: center;
26      margin-bottom: 20px;
27  }
28
29  /* Labels */
30  .form-container label {
31      color: #333;
32      font-weight: bold;
33      font-size: 18px;
34  }
35
36  /* Inputs */
37  .form-container input {
38      width: 100%;
39      padding: 8px;
40      margin: 6px 0 15px 0;
41
42      border: 1px solid #8fa8cf;
43      border-radius: 5px;
44  }
45
46  /* Button */
47  .form-container button {
48      width: 104%;
49      padding: 10px;
50
51      background-color: rgb(70, 130, 180);
52      color: white;
53      border: none;
54      border-radius: 6px;
55
56      font-size: 16px;
57      font-weight: bold;
58      cursor: pointer;
59  }
60
61  .form-container button:hover {
62      background-color: rgb(50, 110, 160);
63  }
64
65
66  /* Header */
67  header {
68      text-align: center;
69      padding: 5px 0;
70      font-size: 2rem;
71      color: #000000;
```

```css
72        background-color: #c0ceec;
73        border-radius: 100px;
74    }
75
76
77    .image-container {
78        position: relative; /* Sets the positioning context for any absolutely positioned children */
79        height: 100vh;/* Sets the height of the container to 100% of the viewport height */
80        width: 100%;/* Ensures the container spans the full width of its parent */
81    }
82
83    .image-container img {
84        width: 100%;
85        height: 100%;
86        object-fit: cover; /* Ensures the image covers the entire area without distortion, cropping if necessary */
87    }
88
89    /*Side navigation*/
90    .side-nav {
91        position: fixed; /* Fixes the navigation bar in place relative to the viewport */
92        top: 0;
93        left: 0;
94        height: 100%;
95        width: 180px;
96        background-color: #204264;
97        padding-top: 30px;
98        display: flex;
99        flex-direction: column; /* Stacks the child items vertically */
100   }
101   .side-nav a {
102       color: #ecf0f1;
103       text-decoration: none;
104       padding: 15px 20px;
105       font-weight: bold;
106       border-left: 4px solid transparent;
107       margin-bottom: 5px;
108       transition: all 0.3s;
109   }
110
111   .side-nav a:hover {
112       background-color: #2c3e50;
113       border-left: 4px solid #f39c12;
114   }
115
116   section {
117       padding: 50px;
118       margin: 20px 0;
119       background-color: #ced8ee;
120       border-radius: 10px;
121       /* Adds a subtle shadow effect for depth and separation from the background */
122       box-shadow: 0 2px 5px rgba(0, 0, 0, 0.2);
123   }
124
125   section h2 {
126       /* Removes the default top margin from the <h2> element within the section */
127       /* This ensures the heading is flush with the top padding of the section */
128       margin-top: 0;
129   }
130
131   /* Slideshow */
132   /* Hides the slide by default. JavaScript will typically manage which slide is shown. */
133   .mySlides {display: none;}
134
135   /* Aligns the image vertically to the middle of the line box. Useful for inline elements. */
136   img {vertical-align: middle;}
137
138   /* Slideshow container */
139   .slideshow-container {
```

```css
    max-width: 700px;
    position: relative;
    margin:auto; /* Centers the slideshow container horizontally on the page */
}

/* Caption text */
.text {
    color: #f2f2f2;
    font-size: 15px;
    padding: 5px;
    position: absolute;
    bottom: 8px;
    width: 50%;
    left: 25%;
    text-align: center;
    background-color: #002f3a;
    border-radius: 50px;
}

/* Number text (1/3 etc) */
.numbertext {
    color: #f2f2f2;
    font-size: 12px;
    padding: 8px 12px;
    position: absolute;
    top: 0;
}

/* The dots/bullets/indicators */
.dot {
    height: 15px;
    width: 15px;
    margin: 0 2px;
    background-color: #bbb;
    border-radius: 50%;
    display: inline-block;
    transition: background-color 0.6s ease;
}

.active {
    background-color: #717171;
}

/* Fading animation */
.fade {
    animation-name: fade;
    animation-duration: 1.5s;
}

@keyframes fade {
    from {opacity: .4}
    to {opacity: 1}
}

/* On smaller screens, decrease text size */
@media only screen and (max-width: 300px) {
    .text {font-size: 11px}
}
/* Profile Card */
.profile-section {
    display: flex;
    justify-content: center;
}

.card {
    background: white;
    padding: 20px;
    border-radius: 12px;
    box-shadow: 0 8px 20px rgba(0,0,0,0.2);
```

```css
209        text-align: center;
210    }
211
212    .card img {
213        border-radius: 50%;
214        width: 120px;
215        height: 120px;
216        /* Ensures the image covers the entire 120x120 area without distortion, cropping if needed */
217        object-fit: cover;
218        /* Adds space below the image, separating it from the heading/text */
219        margin-bottom: 15px;
220    }
221
222    .card h2 {
223        margin-bottom: 5px;
224    }
225
226    .card p {
227        color: #666;
228        /* Makes the paragraph text slightly smaller than the base font size */
229        font-size: 0.95rem;
230    }
231
232    h3{
233        background-color: #8fa8cf;
234        border-radius: 10px;
235        padding: 5px;
236    }
237
238    /* Progress Bar */
239    .progress-section {
240        margin-left: 180px;
241        padding: 40px;
242    }
```

```css
245    .progress-container {
246        width: 300px;
247        background-color: #ffffff;
248        border-radius: 100px;
249    }
250
251
252    .progress-bar {
253        width: 0;
254        height: 20px;
255        background-color: #8fa8cf;
256    }
257
258    .progress-button{
259        padding: 5px;
260        border-radius: 30px;
261        border-color: rgba(0, 0, 0, 0.1);
262    }
263
264    /* Collapsible Section */
265    .container {
266        width: 50%;
267        text-align: center;
268        background: #fff;
269        padding: 20px;
270        border-radius: 8px;
271        /* Adds a subtle shadow for a lifted effect */
272        box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
273    }
274
275    .collapsible-section {
276        margin-left: 180px;
277        padding: 40px;
278    }
```
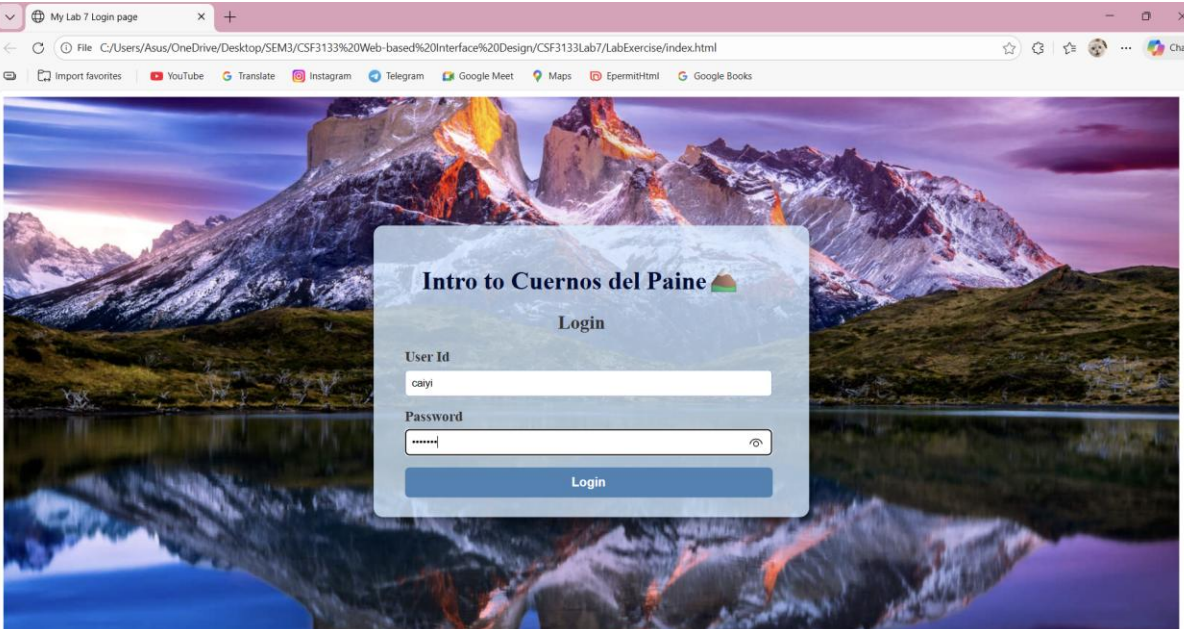
```css
.collapsible {
    background-color: #0f263e;
    color: white;
    /* Changes the cursor to a pointer hand when hovering, indicating interactivity */
    cursor: pointer;
    padding: 10px 20px;
    border: none;
    text-align: center;
    font-size: 16px;
    border-radius: 5px;
    transition: 0.3s ease;
}

.page-content {
    /* Creates space on the left for the side navigation, similar to the section margin */
    margin-left: 170px;
    padding: 20px;
}

.content{
    display: none;
}
```

Interactive Form

Profile Card

Progress Bar

Auto Slide Show

Collapsible Element

Browser window — URL: C:/Users/Asus/OneDrive/Desktop/SEM3/CSF3133%20Web-based%20Interface%20Design/CSF3133Lab7/LabExercise/main.html

Sidebar navigation:
Profile
Introduction
Skills
Slide
FAQ

Trekking Cuernos del Paine

FAQ

Read Before You Go: Booking, Timing & Weather

Do I need to book accommodation in advance to see the Cuernos?

Absolutely, yes. All accommodation—including campsites and refugios—along the W and O circuits (like Refugio Los Cuernos) must be booked well in advance, sometimes 6-12 months ahead, especially for high season.

When is the best time of year to visit?

The **High Season (October to April)** offers the warmest weather, longest daylight hours, and fully operational services. The peak of summer (December-February) is the busiest. **Shoulder Seasons (October-November and March-April)** offer a good balance of weather, fewer crowds, and lower prices.

What is the weather like near the Cuernos?

Weather in Patagonia is notoriously unpredictable. Expect strong winds, especially in summer, and the possibility of experiencing all four seasons in a single day (sunshine, rain, and even snow). Layered, waterproof, and windproof clothing is essential.