



# LAB MODULE 7 CSF3133 – Web-based Interface Design

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## 7.1 Create a Transparent Image Text

Output:



## 7.2 Create a Form on Image

Output:

A login form with a light blue background. It features a title "Login" and two input fields: "Email" and "Password", both with placeholder text "Enter Email" and "Enter Password". Below the inputs is a green "Login" button.

### 7.3 Create a Side Navigation Buttons

Output:

Section 1

A Formula One car or F1 car is a single-seater, open-cockpit, open-wheel formula racing car used to compete in Formula One racing events.

Section 2

Early F1 cars were simpler in design with no wings, front mounted engines. These cars also required significant driver effort for control.

Section 3

Modern F1 cars are composed of carbon fibre monocoques with open cockpits consisting of a single driver seat and detachable steering. An F1 power unit, a 1.6 L turbo hybrid V6 engine.

### 7.4 Create Automatic Slideshow

First Image:



Second Image:



Third Image:



## 7.5 Create Profile Card

Output:

### User Profile Card



**Max Emilian Verstappen**

Dutch racing driver in Formula One for Red Bull Racing

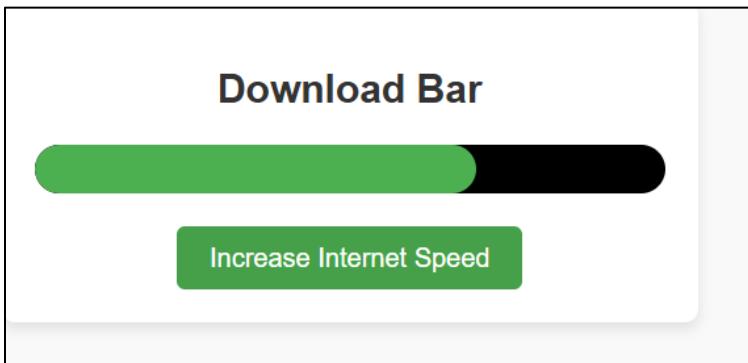
Red Bull Racing Academy

*Twitter   Instagram  
Facebook*

**Contact**

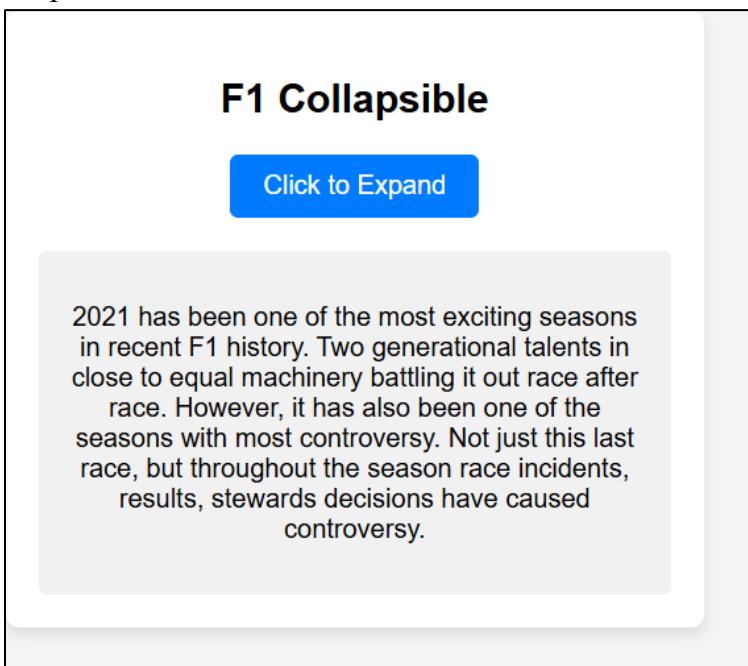
## 7.6 Create Progress Bar

Output:



## 7.7 Create A Collapsible

Output:



## 7.8 Lab Exercise 7

Source Code:

f1.html:

```
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>Formula 1</title>
7      <link rel="stylesheet" href="f1.css">
8  </head>
9  <body>
10     <!-- Side Navigation -->
11     <div class="side-nav">
12         <a href="#">Home</a>
13         <a href="#">Slideshow</a>
14         <a href="#">Profile</a>
15         <a href="#">Progress</a>
16         <a href="#">FAQ</a>
17     </div>
18     <!-- Form Section -->
19     <section id="home" class="hero">
20         <div class="overlay">
21             <h1>Formula 1</h1>
22             <p>It's lights out and away we go!</p>
23             <form class="login-form">
24                 <h3>Login</h3>
25                 <input type="text" placeholder="Username" required>
26                 <input type="password" placeholder="Password" required>
27                 <button type="submit">Login</button>
28             </form>
29         </div>
30     </section>
31     <!-- Slideshow -->
32     <section id="slideshow" class="slideshow">
33         
34         
35         
36     </section>
37     <!-- Profile Card -->
38     <section id="profile" class="profile-section">
39         <div class="profile-card">
40             
41             <h2>Max Verstappen</h2>
42             <h3>F1 Driver</h3>
43             <p>Sparked by childhood trauma.</p>
44             <div class="social-icons">
45                 <a href="https://www.twitter.com/max33verstappen" class="social-icon"><i class="fa fa-twitter"></i></a>
46                 <a href="https://www.instagram.com/maxverstappen/" class="social-icon"><i class="fa fa-instagram"></i></a>
47                 <a href="https://www.facebook.com/maxverstappen/" class="social-icon"><i class="fa fa-facebook"></i></a>
48             </div>
49         </div>
50     </section>
51     <!-- Progress Bar -->
52     <section id="progress" class="progress-section">
53         <h2>Season Progress</h2>
54         <div class="progress-container">
55             <div class="progress-bar" id="progressBar">0%</div>
56         </div>
57     </section>
58     <!-- Collapsible Section -->
59     <section id="faq" class="faq-section">
60         <h2>Formula 1 FAQs</h2>
61         <button class="collapsible">What is Formula 1?</button>
62         <div class="content">
63             <p>F1, or Formula 1, is the highest class of international single-seater, open-wheel auto racing, known as the pinnacle of motorsport, featuring fast, technologically advanced cars and global Grand Prix events sanctioned by the FIA, where drivers compete for individual and team championships. The "formula" refers to the strict rules cars must follow, and a season includes races worldwide, combining incredible speed with complex strategy. </p>
64         </div>
65         <button class="collapsible">How many drivers and teams race in F1?</button>
66         <div class="content">
67             <p>A total of 10 teams and 20 drivers from around the world make up the current Formula 1 grid, with each squad fielding two cars. Driver experience ranges from multiple World Champions like Lewis Hamilton, Max Verstappen and Fernando Alonso, to rookie racers in their first full-time F1 seasons such as Kimi Raikkonen, Oliver Bearman and Gabriel Bortoleto. </p>
68         </div>
69         <button class="collapsible">Where does F1 race?</button>
70         <div class="content">
71             <p>A total of 24 races in 21 countries across five continents are included on the Formula 1 calendar. Classic circuits such as Silverstone, Spa-Francorchamps and Suzuka, combined with more recent additions including Las Vegas, Miami and Saudi Arabia, give an exciting and varied selection of tracks. Monaco, Monza, Silverstone and Spa are circuits that still feature on the schedule from the very first F1 season in 1950, although plenty of safety-based changes and track layout modifications have been made since then. </p>
72         </div>
73     </section>
74     <footer>
75         <p>Man Ariff F1 Website 2025 &copy;</p>
76     </footer>
77     <script src="f1.js"></script>
78 </body>
79 </html>
```

f1.css:

```
1  body {
2    margin: 0;
3    font-family: Arial, sans-serif;
4    scroll-behavior: smooth;
5  }
6  .side-nav {
7    position: fixed;
8    top: 0;
9    left: 0;
10   width: 160px;
11   height: 100%;
12   background: #111;
13   padding-top: 20px;
14 }
15 .side-nav a {
16   display: block;
17   color: white;
18   padding: 12px;
19   text-decoration: none;
20 }
21 .side-nav a:hover {
22   background: #e10600;
23 }
24 .hero {
25   margin-left: 160px;
26   height: 100vh;
27   background: url('f1bg.jpg') center/cover no-repeat;
28   position: relative;
29 }
30 .overlay {
31   background: rgba(0, 0, 0, 0.6);
32   color: white;
33   height: 100%;
34   display: flex;
35   flex-direction: column;
36   align-items: center;
37   justify-content: center;
38   text-align: center;
39 }
```

```
40  .overlay h1 {
41    font-size: 60px;
42    margin: 0;
43  }
44  .overlay p {
45    font-size: 22px;
46    margin-bottom: 20px;
47  }
48  .login-form {
49    background: □rgba(255, 255, 255, 0.1);
50    padding: 20px;
51    border-radius: 8px;
52    width: 260px;
53  }
54  .login-form h3 {
55    margin-top: 0;
56  }
57  .login-form input, .login-form button {
58    width: 92%;
59    padding: 10px;
60    margin-bottom: 15px;
61    border: none;
62    border-radius: 5px;
63  }
64  .login-form button {
65    background: ■#e10600;
66    color: ■white;
67    cursor: pointer;
68  }
69  .slideshow {
70    margin-left: 160px;
71    width: auto;
72  }
73  .slide {
74    width: 100%;
75    height: 400px;
76    object-fit: cover;
```

```
77 |   display: none;
78 |
79 |.profile-section {
80 |  margin-left: 160px;
81 |  padding: 40px;
82 |  background: #f4f4f4;
83 |
84 |.profile-card {
85 |  max-width: 300px;
86 |  background: white;
87 |  padding: 20px;
88 |  text-align: center;
89 |  border-radius: 10px;
90 |  box-shadow: 0 4px 10px rgba(0,0,0,0.2);
91 |
92 |.profile-card img {
93 |  width: 100%;
94 |  border-radius: 10px;
95 |
96 |.social-icons i {
97 |  margin: 10px;
98 |  color: #e10600;
99 |  font-size: 20px;
100 |  cursor: pointer;
101 }
102 |.progress-section {
103 |  margin-left: 160px;
104 |  padding: 40px;
105 |
106 |.progress-container {
107 |  width: 80%;
108 |  background: #ddd;
109 |  border-radius: 20px;
110 |  overflow: hidden;
111 |
112 |.progress-bar {
113 |  width: 0;
```

```
114 | height: 30px;
115 | background: #e10600;
116 | color: white;
117 | text-align: center;
118 | line-height: 30px;
119 |
120 | .faq-section {
121 | margin-left: 160px;
122 | padding: 40px;
123 |
124 | .collapsible {
125 | background: #e10600;
126 | color: white;
127 | cursor: pointer;
128 | padding: 12px;
129 | width: 100%;
130 | border: none;
131 | text-align: left;
132 | margin-top: 10px;
133 |
134 | .content {
135 | display: none;
136 | background: #f1f1f1;
137 | padding: 10px;
138 |
139 | footer [
140 | text-align: center;
141 | background-color: #7D3B19;
142 | color: #f0f0f0;
143 | padding: 10px;
144 | font-style: italic;
145 | margin-top: auto;
146 | ]
```

script.js:

```
1 let slideIndex = 0;
2 const slides = document.getElementsByClassName("slide");
3 function showSlides() {
4     for (let i = 0; i < slides.length; i++) {
5         slides[i].style.display = "none";
6     }
7     slideIndex++;
8     if (slideIndex > slides.length) { slideIndex = 1; }
9     slides[slideIndex - 1].style.display = "block";
10    setTimeout(showSlides, 3000);
11}
12showSlides();
13let progress = 0;
14const bar = document.getElementById("progressBar");
15const interval = setInterval(() => {
16    if (progress >= 100) {
17        clearInterval(interval);
18    } else {
19        progress++;
20        bar.style.width = progress + "%";
21        bar.innerHTML = progress + "%";
22    }
23}, 40);
24const coll = document.getElementsByClassName("collapsible");
25for (let i = 0; i < coll.length; i++) {
26    coll[i].addEventListener("click", function() {
27        const content = this.nextElementSibling;
28        content.style.display = content.style.display === "block" ? "none" : "block";
29    });
30}
```

Output:

Form page:

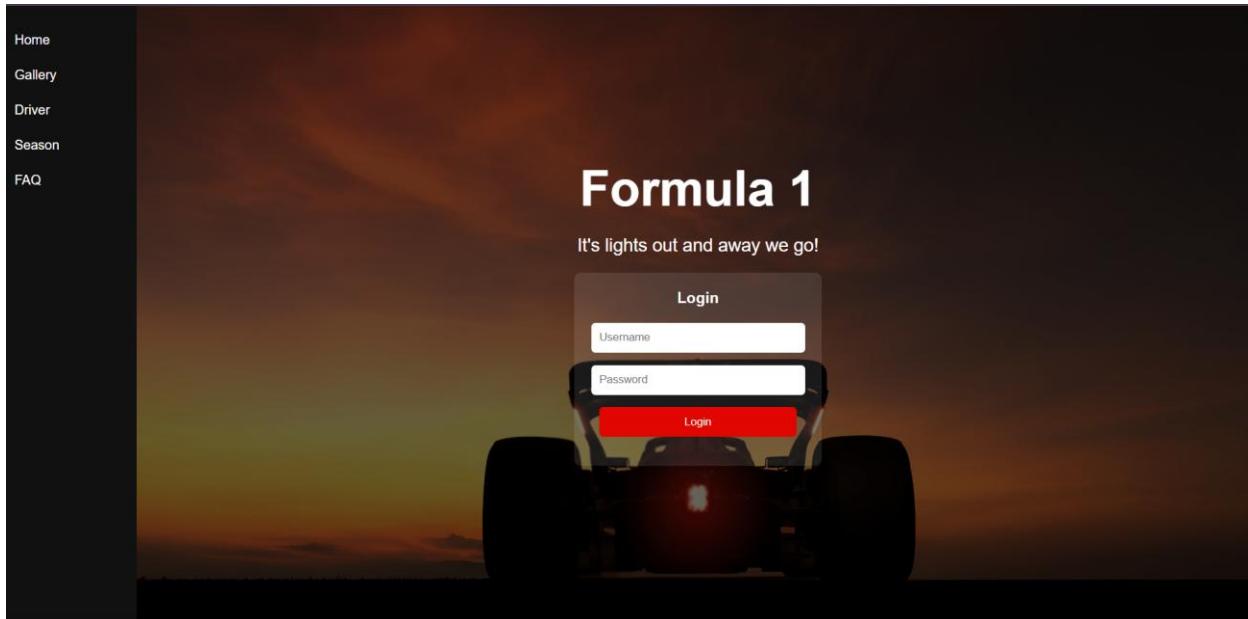


Image page:



Driver and season page:

- Home
- Gallery
- Driver
- Season
- FAQ



**Max Verstappen**  
F1 Driver  
Driven by childhood trauma.  
[Twitter](#) [Instagram](#) [Facebook](#)

### Season Progress

100%

F1 FAQ and footer page:

#### Formula 1 FAQs

What is Formula 1?

How many drivers and teams race in F1?

Where does F1 race?

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