

Front End Engineering-II

Project Report

Semester-III (Batch-2023)

TRAVEL BLOG



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ABSTRACT

In today's digital era, a travel blog website serves as an essential platform for travellers to share their experiences, tips, and recommendations with a global audience. This project aims to design and develop a visually appealing, user-friendly, and responsive travel blog website. The website will feature various sections such as popular destinations, travel itineraries, personal blogs, and reviews, all tailored to inspire and guide travellers in planning their next adventure.

The website will be developed using HTML, CSS, JavaScript, and Bootstrap, ensuring a seamless experience across multiple devices, including smartphones and tablets. The use of the Bootstrap grid system will ensure responsive design, while JavaScript will handle interactive elements such as search filters, pop-up modals, and dynamic content updates. Special attention will be given to the design aesthetics, incorporating vibrant visuals, animations, and an intuitive navigation structure to engage visitors and keep them exploring.

Key features such as an integrated comment section, social media sharing buttons, and a user login system will foster community engagement. Additionally, the website will provide interactive maps and location highlights to enhance users' ability to explore new destinations effectively.

Design considerations will emphasize user experience (UX) principles, ensuring intuitive navigation, fast loading times, and accessibility for users with different devices and needs. The site will be visually appealing, with an emphasis on clean layouts, high-quality imagery, and organized content sections such as featured destinations, travel tips, and itineraries.

This project will demonstrate proficiency in front-end web development, including responsive design, user experience (UX), and functionality, while focusing on creating a digital space for travellers to connect, share, and inspire one another.

1.INTRODUCTION

The rise of digital platforms has revolutionized the way people explore, plan, and share their travel experiences. Travel blogs, in particular, have become an essential source of information, inspiration, and community-building for both novice and seasoned travellers. This project focuses on the development of a travel blog website that serves as a digital hub for sharing travel stories, tips, and destination insights. The website will provide a dynamic and engaging experience, with features such as user-generated content, social media integration, and an intuitive design that caters to travellers of all kinds.

By leveraging modern web development technologies such as HTML, CSS, JavaScript, and Bootstrap, the project aims to create a responsive, visually appealing, and highly functional website. The platform will offer users a seamless experience across devices, ensuring accessibility and ease of use, regardless of the user's technical proficiency. Additionally, the content management system (CMS) will allow for frequent updates and scalability, making it a sustainable platform for long-term use.

1.1 Background

In the age of digitalization, travel blogs have grown in popularity due to their ability to provide personal, firsthand accounts of destinations, which are often more relatable and trusted than traditional travel guides. According to research, nearly 70% of travellers turn to online sources for inspiration, and many prefer blogs because they offer unique insights, personal experiences, and practical tips that are not typically available through mainstream travel channels.

The travel blog website aims to tap into this growing trend by creating a centralized platform that offers not only blog content but also interactive features such as comments, social media sharing, and destination-specific resources. The website will cater to a wide audience, from casual vacationers looking for travel tips to avid explorers seeking in-depth destination guides.

The technical aspects of the project also align with current industry standards in web development. Responsive design is critical, given the increasing use of mobile devices to access travel content. The use of JavaScript for dynamic functionality and Bootstrap for layout flexibility ensures that the website will perform optimally on various screen sizes and resolutions. By incorporating these modern web technologies, the website will meet the expectations of today's digital-savvy travellers while providing an engaging and user-friendly platform for contributors and visitors alike.

1.2 Objectives

1. **Develop a User-Friendly Platform:** Create a website that provides an intuitive and seamless user experience for visitors to explore, read, and engage with travel content. This includes easy navigation, search functionality, and clear categorization of blog posts by destination, travel tips, and itineraries.
2. **Ensure Responsiveness:** Implement a fully responsive design using Bootstrap, ensuring that the website is accessible and visually appealing on various devices, including desktops, tablets, and smartphones, catering to modern user behaviour and preferences.
3. **Incorporate User Interaction Features:** Enhance user engagement by integrating interactive elements such as a comments section, social media sharing buttons, and subscription options, fostering community involvement and encouraging user-generated content.
4. **Utilize Modern Web Development Technologies:** Utilize HTML, CSS, JavaScript, and other front-end technologies to ensure optimal functionality, interactivity, and performance of the website. JavaScript will be employed to handle dynamic elements such as pop-ups, forms, and content filtering.
5. **Create Visually Appealing Design:** Focus on aesthetics by incorporating high-quality images, animations, and clean layouts that highlight travel destinations and stories. The design will also align with user experience (UX) best practices, ensuring an attractive and professional look.
6. **Foster Community Engagement:** Create features that allow for active participation from users, including a login system for blog contributors, user profiles, and a space for travelers to share their experiences or reviews, building a community-driven platform.

By achieving these objectives, the travel blog website will serve as an engaging, functional, and visually appealing platform that connects travelers and offers them valuable resources for planning and sharing their adventures.

1.3 Significance

The development of a travel blog website holds both practical and academic significance, addressing the growing demand for digital platforms that provide personalized and authentic travel content. In an increasingly digital world, travellers rely on online resources not only for inspiration but also for planning, researching destinations, and connecting with a global community.

This project is significant for several reasons:

1. **Facilitating Travel Information Sharing:** The website will provide a valuable resource for travellers, offering a centralized platform where users can access detailed travel guides, itineraries, tips, and personal experiences. This personalized approach is more relatable and practical than traditional travel guides, providing users with real-world insights and recommendations.
2. **Promoting User Engagement and Community Building:** By incorporating interactive elements such as commenting, user profiles, and social media integration, the website will foster a sense of community among travellers. This feature is critical for encouraging the exchange of experiences and advice, creating a space where users can connect and support each other in their travel journeys.
3. **Enhancing Digital Literacy and Skills:** On an academic level, this project demonstrates proficiency in modern web development practices, including responsive design, content management, and interactivity. It showcases the application of web technologies like HTML, CSS, JavaScript, and Bootstrap, offering practical experience in designing and building functional, user-friendly websites. This is particularly valuable for students in fields like computer science, information technology, and digital media, as it aligns with current industry trends.
4. **Contribution to Tourism and Local Economies:** The website can indirectly promote tourism by providing visibility to lesser-known destinations. By highlighting local attractions, accommodations, and activities, the platform can help boost interest in regions that are not commonly covered by mainstream travel media, contributing to the economic growth of these areas.
5. **Improving Accessibility to Travel Resources:** With responsive design as a core objective, the website will ensure that travel content is accessible to users across multiple devices and platforms. In today's mobile-first world, this ensures that the platform reaches a broad audience, making travel content available to users wherever they are, regardless of the device they use.

By meeting these goals, the travel blog website will not only offer practical travel resources for its users but also serve as an important educational tool in the field of web development, highlighting the significance of creating engaging, functional, and responsive digital platforms.

2. PROBLEM DEFINATION AND REQUIREMENTS

2.1 Problem Statement

In the digital age, travellers increasingly rely on online platforms for inspiration, planning, and sharing their travel experiences. However, many existing travel websites either lack personalization, focus only on commercial content, or are limited in their ability to engage users with interactive features. These platforms often fail to provide a space for authentic storytelling, peer-driven recommendations, and community engagement, which are essential elements for today's travel enthusiasts.

Furthermore, many travellers, especially those seeking off-the-beaten-path destinations, struggle to find reliable, user-generated content that offers practical insights into lesser-known places. Traditional travel guides and commercial platforms tend to highlight popular, mainstream destinations, leaving little room for the diverse experiences and perspectives that can help users discover new places and plan unique trips.

In addition, the need for a responsive and user-friendly design is critical. Many travel websites are not optimized for mobile devices, creating barriers for users who primarily browse on smartphones or tablets. This lack of accessibility limits the usability of the platform and diminishes user experience.

Many travel blogs are difficult to update regularly due to technical complexities, resulting in outdated content, which discourages user engagement and undermines the relevance of the site.

Thus, the problem that this project seeks to address is the lack of an accessible, user-driven, visually appealing, and mobile-friendly platform that facilitates the sharing of authentic travel experiences and recommendations. The goal is to develop a travel blog website that combines modern web technologies with an intuitive content management system to create an engaging, scalable, and sustainable platform for travellers to connect, share, and explore.

2.1 Hardware Requirements

1. Development Machine:

- Processor: Intel Core i5 or higher
- RAM: 8 GB or more (16 GB recommended for faster performance)
- Storage: 500 GB HDD or SSD (SSD recommended for faster access)
- Display: 1080p monitor or higher for web design clarity
- Internet Connectivity: Required for accessing resources, uploading content, and testing the website across devices.

2. Server (For Deployment):

- Processor: 2 GHz dual-core processor or higher
- RAM: 4 GB minimum (8 GB or more recommended for handling traffic)
- Storage: 50 GB SSD minimum (depending on website size and media content)
- Operating System: Linux (Ubuntu) or Windows Server

2.3 Software Requirements

1. Frontend Development Tools:

- HTML5/CSS3: For structuring and styling the content.
- Bootstrap Framework: To ensure a responsive, mobile-friendly design.
- JavaScript (ES6 or higher): For adding interactivity, handling dynamic content, and enhancing user experience.
- Visual Studio Code: As the primary integrated development environment (IDE) for writing code.
- Version Control System (Git): For tracking changes and collaborating on the project using platforms like GitHub or GitLab.

2.Backend Development Tools:

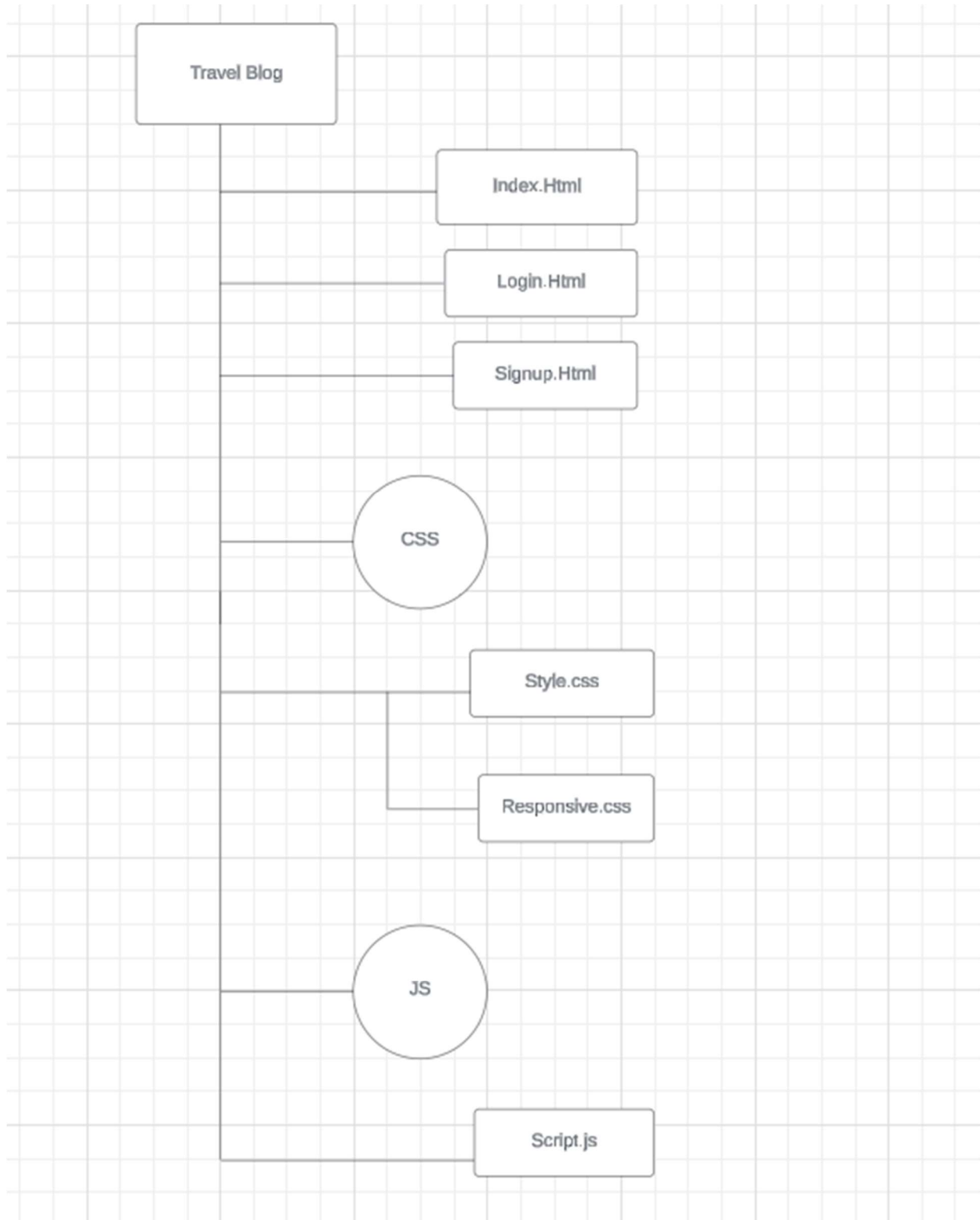
- Node.js (with Express) or PHP: For handling backend operations if user accounts or interactive features are included.
- MySQL/PostgreSQL or MongoDB: To store and manage user data, blog content, and other database needs (if necessary).

3. Design and Prototyping Tools:

- Figma or Adobe XD: For creating design prototypes and wireframes.
- Photoshop/Canva: For designing graphics, resizing images, and creating visually appealing content.

3.PROPOSED DESIGN / METHODOLOGY

3.1 File structure



3.2 Algorithms

1. Responsive Design Algorithm

Although not explicitly coded, the CSS (not shown) would dictate how the layout responds to different screen sizes:

- Input: User accesses the page on various devices.
- Process:
 - Apply different styles based on media queries (e.g., hiding/showing elements, changing layout).
- Output: A responsive design that adapts to the user's device.

2. Social Media Icon Click Algorithm

This algorithm handles clicks on social media icons in the footer.

- Input: User clicks on a social media icon.
- Process:
 - Identify which icon was clicked (e.g., Facebook, Instagram).
 - Redirect the user to the respective social media link.
- Output: User is navigated to the selected social media page.

4. RESULTS

4.1 Screenshots

(1) index.html

```
index.html > html > body > nav.navbar > ul#nav-list.nav-list > li
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>Trekking Tales</title>
7    <link href="https://fonts.googleapis.com/icon?family=Material+Icons" rel="stylesheet">
8    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/6.6.0/css/all.min.css">
9    <link rel="stylesheet" href="style.css">
10 </head>
11 <body>
12
13   <nav class="navbar" >
14     <div class="menu-toggle" id="mobile-menu">
15       <div class="bar"></div>
16       <div class="bar"></div>
17       <div class="bar"></div>
18     </div>
19
20     <div class="leftnav">
21       <div class="website-name"><a href="#home">Trekking Tales</a></div>
22     </div>
23
24     <ul class="nav-list" id="nav-list">
25       <li><a href="#amsterdam">Amsterdam</a></li>
26       <li><a href="#chicago">Chicago</a></li>
27       <li><a href="#dubai">Dubai</a></li>
28       <li><a href="#france">France</a></li>
29       <li><a href="#london">London</a></li>
30       <li><a href="#newyork">New York</a></li>
31       <li><a href="#switzerland">Switzerland</a></li>
32       <li><a href="#sydney">Sydney</a></li>
33     </ul>
34     <div class="signup-section">
35       <a href="signup.html">
36         <h2>Join Us!</h2>
37       </a>
38     </div>
39   </nav>
40
41   <div class="container" id="home">
```

```
42   <div class="container" id="home">
43     <!-- banner 1 -->
44     <div class="banner_ams" id="amsterdam">
45       <div class="bg-group">
46         <div class="bg"></div>
47         <div class="bg">
48           <!-- <h4>Discover</h4> -->
49           <h1>Amsterdam</h1>
50         </div>
51         <div class="bg"></div>
52       </div>
53     </div>
54     <!-- end banner -->
55     <div class="tab">
56       <a href="amsterdam.html">
57         Discover More <span class="material-icons">arrow_forward</span>
58       </a>
59     </div>
60
61     <!-- banner 2 -->
62     <div class="banner_chi" id="chicago">
63       <div class="bg-group">
64         <div class="bg"></div>
65         <div class="bg">
66           <!-- <h4>Discover</h4> -->
67           <h1>Chicago</h1>
68         </div>
69         <div class="bg"></div>
70       </div>
71     </div>
72     <!-- End Banner 2 -->
73     <div class="tab">
74       <a href="chicago.html">
75         Discover More <span class="material-icons">arrow_forward</span>
76       </a>
77     </div>
78
79     <!-- banner 3 -->
80     <div class="banner_dub" id="dubai">
```

```

<div class="banner dub" id="dubai">
  <div class="bg-group">
    <div class="bg"></div>
    <div class="bg">
      <!-- <h4>Discover</h4> -->
      <h1>Dubai</h1>
    </div>
    <div class="bg"></div>
  </div>
</div>
<!-- End Banner 3 -->
<div class="tab">
  <a href="dubai.html">
    Discover More <span class="material-icons">arrow_forward</span>
  </a>
</div>

<!-- banner 4 -->
<div class="banner fra" id="france">
  <div class="bg-group">
    <div class="bg"></div>
    <div class="bg">
      <!-- <h4>Discover</h4> -->
      <h1>France</h1>
    </div>
    <div class="bg"></div>
  </div>
</div>
<!-- End Banner 4 -->
<div class="tab">
  <a href="france.html" >
    Discover More <span class="material-icons">arrow_forward</span>
  </a>
</div>

<!-- banner 5 -->
<div class="banner lon" id="london">
  <div class="bg-group">

```

```

    <div class="bg"></div>
    <div class="bg">
      <!-- <h4>Discover</h4> -->
      <h1>London</h1>
    </div>
    <div class="bg"></div>
  </div>
</div>
<!-- End Banner 5 -->
<div class="tab">
  <a href="london.html">
    Discover More <span class="material-icons">arrow_forward</span>
  </a>
</div>

<!-- banner 6 -->
<div class="banner new" id="newyork">
  <div class="bg-group">
    <div class="bg"></div>
    <div class="bg">
      <!-- <h4>Discover</h4> -->
      <h1>New York</h1>
    </div>
    <div class="bg"></div>
  </div>
</div>
<!-- End Banner 6 -->
<div class="tab">
  <a href="newyork.html">
    Discover More <span class="material-icons">arrow_forward</span>
  </a>
</div>

<!-- banner 7 -->
<div class="banner swit" id="switzerland">
  <div class="bg-group">

```

```

<!-- banner 7 -->
<div class="banner swit" id="switzerland">
  <div class="bg-group">
    <div class="bg"></div>
    <div class="bg">
      <!-- <h4>Discover</h4> -->
      <h1>Switzerland</h1>
    </div>
    <div class="bg"></div>
  </div>
</div>
<!-- End Banner 7 -->
<div class="tab">
  <a href="switzerland.html" class="discover-link">
    Discover More <span class="material-icons">arrow_forward</span>
  </a>
</div>

<!-- banner 8 -->
<div class="banner syd" id="sydney">
  <div class="bg-group">
    <div class="bg"></div>
    <div class="bg">
      <!-- <h4>Discover</h4> -->
      <h1>Sydney</h1>
    </div>
    <div class="bg"></div>
  </div>
</div>
<!-- End Banner 8 -->
<div class="tab">
  <a href="sydney.html">
    Discover More <span class="material-icons">arrow_forward</span>
  </a>
</div>
</div>

```

```

</div>

<div>
  <iframe src="footer.html" style="width: 100%; border: none;"></iframe>
</div>

<button id="scrollToTopBtn">Scroll to Top</button>

<script>...
</script>

<script src="app.js"></script>
</body>
</html>

```

(2) index.css

```
/*
margin: 0;
padding: 0;
box-sizing: border-box;
}

body {
background-color: #010302;
color: #eee;
font-family: 'Josefin Sans', sans-serif;
font-size: 15px;
overflow-x: hidden;
}

/* Hide scrollbar */
::-webkit-scrollbar {
width: 0;
}

html {
scroll-behavior: smooth;
}

/*..... N A V B A R .....*/

.navbar {
background-color: #333;
padding: 10px 20px;
display: flex;
justify-content: space-between;
align-items: center;
position: fixed;
top: 0;
left: 0;
right: 0;
z-index: 1000;
opacity: 85%;
}

.leftnav {
display: flex;
```

```
align-items: center;
}

.website-name {
color: #fff;
font-size: 28px;
margin-right: 20px;
font-family: Cambria, Cochin, Georgia, Times, 'Times New Roman', serif;
}

.website-name:hover {
color: #000080;
text-shadow: 0 0 17.5px #f0afaf;
}

.website-name a {
text-decoration: none;
color: #fff;
}

.nav-list {
display: flex;
flex-grow: 1;
justify-content: flex-end;
margin: 0;
padding: 0;
list-style-type: none;
}

.nav-list li {
margin: 0 20px;
position: relative;
}

.nav-list li a {
text-decoration: none;
color: #fff;
transition: color 0.3s, text-shadow 0.3s;
}
```

```

.nav-list li a:hover {
    text-shadow: 0 0 4px #ffffff;
}

.nav-list li a::after {
    content: '';
    height: 2px;
    width: 0;
    background: #fff;
    transition: width 0.3s ease;
    position: absolute;
    bottom: -6px;
    left: 50%;
    transform: translateX(-50%);
}

.nav-list li a:hover::after {
    width: 120%;
}

.menu-toggle {
    display: none;
    cursor: pointer;
    color: #fff;
    font-size: 24px;
}

/* Responsive Styles for Navbar */
@media (max-width: 768px) {
    .nav-list {
        display: none;
        flex-direction: column;
        position: absolute;
        background-color: #333;
        top: 50px;
        right: 0;
        width: 100%;
        padding: 15px 5px;
        z-index: 1000;
    }

```

```

        opacity: 80%;
    }

    .navbar.active .nav-list {
        display: flex;
    }

    .menu-toggle {
        display: flex;
        flex-direction: column;
        justify-content: space-around;
        width: 30px;
        height: 20px;
        cursor: pointer;
    }

    .bar {
        height: 2px;
        width: 90%;
        background-color: #ffffff;
    }

    .nav-list li a::after {
        width: 0;
    }

    .nav-list li a:hover::after {
        width: 100%;
        bottom: -1px;
    }
}

/* ..... BANNER ..... */

@import url('https://fonts.googleapis.com/css2?family=Josefin+Sans&display=swap');

.container { ...
}

```

```

164
165 > .banner { ...
170 }
171
172 > .banner .bg { ...
181 }
182
183 /* Amsterdam banner */
184 > .ams .bg:nth-child(3) { ...
189 }
190
191 > .ams .bg:nth-child(2) { ...
195 }
196
197 .ams .bg:nth-child(2) h1,
198 > .ams .bg:nth-child(2) h4 { ...
203 }
204
205 > .ams .bg:nth-child(2) h1 { ...
207 }
208
209 > .ams .bg:nth-child(1) { ...
212 }
213
214 /* Chicago banner */
215 > .chi .bg:nth-child(3) { ...
218 }
219
220 > .chi .bg:nth-child(2) { ...
224 }
225
226 .chi .bg:nth-child(2) h1,
227 > .chi .bg:nth-child(2) h4 { ...
232 }
233
234 > .chi .bg:nth-child(2) h1 { ...
236 }
237
238 > .chi .bg:nth-child(1) { ...
241 }
242
243 /* Dubai banner */
244 > .dub .bg:nth-child(3) { ...
247 }
248
249 > .dub .bg:nth-child(2) { ...
253 }
254
255 .dub .bg:nth-child(2) h1,
256 > .dub .bg:nth-child(2) h4 { ...
261 }
262
263 > .dub .bg:nth-child(2) h1 { ...
265 }
266
267 > .dub .bg:nth-child(1) { ...
269 }
270
271 /* France banner */
272 > .fra .bg:nth-child(3) { ...
275 }
276
277 > .fra .bg:nth-child(2) { ...
281 }
282
283 .fra .bg:nth-child(2) h1,
284 > .fra .bg:nth-child(2) h4 { ...
289 }
290
291 .fra .bg:nth-child(2) h1 {
292 |   font-size: 11vw;
293 }
294
295 > .fra .bg:nth-child(1) { ...
298 }
299
300 /* London banner */
301 > .lon .bg:nth-child(3) { ...
304 }
305
306 > .lon .bg:nth-child(2) { ...
310 }

```

```

311
312 .lon .bg:nth-child(2) h1,
313 > .lon .bg:nth-child(2) h4 { ...
318 }
319
320 > .lon .bg:nth-child(2) h1 { ...
322 }
323
324 > .lon .bg:nth-child(1) { ...
327 }
328
329 /* New York banner */
330 > .new .bg:nth-child(3) { ...
333 }
334
335 > .new .bg:nth-child(2) { ...
340 }
341
342 .new .bg:nth-child(2) h1,
343 > .new .bg:nth-child(2) h4 { ...
348 }
349
350 > .new .bg:nth-child(2) h1 { ...
352 }
353
354 > .new .bg:nth-child(1) { ...
357 }
358
359 /* Switzerland banner */
360 > .swit .bg:nth-child(3) { ...
363 }
364
365 > .swit .bg:nth-child(2) { ...
369 }
370
371 .swit .bg:nth-child(2) h1,
372 > .swit .bg:nth-child(2) h4 { ...
377 }
378
379 > .swit .bg:nth-child(2) h1 { ...
381 }
382

```

```

381
382
383 > .swit .bg:nth-child(1) { ...
386 }
387
388 /* Sydney banner */
389 > .syd .bg:nth-child(3) { ...
392 }
393
394 > .syd .bg:nth-child(2) { ...
398 }
399
400 .syd .bg:nth-child(2) h1,
401 > .syd .bg:nth-child(2) h4 { ...
406 }
407
408 > .syd .bg:nth-child(2) h1 { ...
410 }
411
412 > .syd .bg:nth-child(1) { ...
415 }
416
417 /* Responsive Styles */
418 @media (max-width: 768px) { ...
463 }
464
465
466 /*TAB*/
467 > .tab { ...
477 }
478
479 > .tab::before { ...
486 }
487
488 > .tab a { ...
500 }
501
502 > .tab a:hover { ...
509 }
510
511 > .tab a:active { ...
515 }

```



```

516
517 > .tab a .material-icons { ...
521 }
522 > @media (max-width: 768px) { ...
527 }
528
529 /* .....S I G N U P .....
530 .signup-section {
531     display: flex;
532     justify-content: center;
533     align-items: center;
534 }
535
536 .signup-section a {
537     text-decoration: none;
538 }
539
540 .signup-section h2 {
541     font-size: 16px;
542     color: #ffffff;
543     padding: 10px 20px;
544     background-color: #000000;
545     border-radius: 5px;
546     transition: background-color 0.3s ease;
547 }
548
549 .signup-section h2:hover {
550     background-color: #ffffff;
551     opacity: 70%;
552     color: #000000;
553 }
554
555
556 #scrollTopBtn {
557     position: fixed;
558     bottom: 20px;
559     right: 30px;
560     display: none;
561     background-color: rgb(255, 255, 255);
562     border: 2px solid black;
563     color: rgb(0, 0, 0);
564     border: none;

```

```

548
549 .signup-section h2:hover {
550     background-color: #ffffff;
551     opacity: 70%;
552     color: #000000;
553 }
554
555
556 #scrollTopBtn {
557     position: fixed;
558     bottom: 20px;
559     right: 30px;
560     display: none;
561     background-color: rgb(255, 255, 255);
562     border: 2px solid black;
563     color: rgb(0, 0, 0);
564     border: none;
565     border-radius: 15px;
566     padding: 10px 15px;
567     cursor: pointer;
568     z-index: 100;
569 }
570
571 #scrollTopBtn:hover {
572     background-color: #000000;
573     color: white;
574 }

```

(3) app.js

```
// Navbar toggle
const menuToggle = document.getElementById('mobile-menu');
const navbar = document.querySelector('.navbar');

menuToggle.addEventListener('click', () => {
  navbar.classList.toggle('active'); // Toggle active class on navbar
});

// Function to apply parallax effect
function applyParallaxEffect() {
  const scrollPosition = window.scrollY;
  const banners = document.querySelectorAll('.banner');

  banners.forEach((banner) => {
    const bannerOffsetTop = banner.offsetTop; // Banner's top offset from the document
    const bannerHeight = banner.offsetHeight; // Height of the banner
    const bgLayers = banner.querySelectorAll('.bg');

    // Calculate if the banner is in the viewport
    const isVisible = scrollPosition + window.innerHeight > bannerOffsetTop && scrollPosition < bannerOffsetTop + bannerHeight;

    if (isVisible) {
      const bannerOffset = scrollPosition - bannerOffsetTop; // Calculate offset based on scroll position
      const maxOffset = 150; // Maximum offset for the parallax effect

      // Apply parallax effect to background layers
      bgLayers.forEach((bgLayer, index) => {
        const speed = index + 1; // Speed based on layer index
        const offset = (bannerOffset * speed) / 11; // Increased divisor for slower movement
        bgLayer.style.transform = `translateY(-${Math.min(offset, maxOffset)}px)`; // Limit max offset
      });
    }
  });
}

// Debounce function
function debounce(func, wait) {
  let timeout;
  return function(...args) {
    const context = this;
    clearTimeout(timeout);
    timeout = setTimeout(() => func.apply(context, args), wait);
  };
}

// Optimized scroll event listener
window.addEventListener('scroll', debounce(() => {
  applyParallaxEffect();
}, 8)); // Adjust the delay as needed
```

(4)login.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>Document</title>
7      <link rel="stylesheet" href="./login.css"></link>
8      <link href='https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css' rel='stylesheet'>
9  </head>
10 <body>
11     <div class="wrapper">
12         <form action="">
13             <h1>Login</h1>
14             <div class="input-box">
15                 <input type="email" placeholder="email" id="login_email"required>
16                 <i class='bx bxs-user'></i>
17             </div>
18             <div class="input-box">
19                 <input type="password" placeholder="password" id="login_password" required>
20                 <i class='bx bxs-lock-alt'></i>
21             </div>
22             <div class="remember-forgot">
23                 <label><input type="checkbox">Remember Me</label>
24                 <a href="#">Forgot Password </a>
25             </div>
26             <button type="submit" onclick = login() class="btn">Login</button>
27             <div class="register-link" >
28                 <p>Dont have an account ? <a href="./signup.html">Register</a></p>
29             </div>
30         </form>
31     </div>
32     <script src="./signup.js"></script>
33 </body>
34 </html>
```

(5)login.css

```

*{
  margin:0;
  padding:0;
  box-sizing:border-box;
  font-family:sans-serif;
}
body {
  display: flex;
  justify-content: center;
  align-items: center;
  min-height: 100vh;
  background: linear-gradient(135deg, #121920, #a7abae); /* Darker gradient */
}

.wrapper {
  width: 420px;
  background: rgba(255, 255, 255, 0.1); /* Light semi-transparent white */
  border: 2px solid rgba(255, 255, 255, 0.621); /* Slightly more opaque border */
  backdrop-filter: blur(15px); /* Stronger blur effect */
  color: #fff;
  border-radius: 12px;
  padding: 30px 40px;
  box-shadow: 0 4px 30px rgba(0, 0, 0, 0.3); /* Softer shadow for depth */
  transition: transform 0.3s, box-shadow 0.3s; /* Smooth transition for hover effect */
}

/* Hover effect */
.wrapper:hover {
  transform: scale(1.05); /* Slightly enlarge on hover */
  box-shadow: 0 6px 40px rgba(0, 0, 0, 0.5); /* Darker shadow on hover */
}

.wrapper h1{
  font-size:36px;
  text-align:center;
}

.wrapper .input-box{
  position:relative;
  width:100%;
  height:50px;
  margin:30px 0;
}

.input-box input{
  width:100%;
  height:100%;
  background: transparent;
  border: none;
  outline:none;
  border:2px solid rgba(255, 255, 255, 0.526);
  border-radius:40px;
  font-size:16px;
}
```

```

font-size:16px;
color:□#fff;
padding: 20px 45px 20px 20px;
}
.input-box input::placeholder{
color:□#fff;
}
.input-box i{
position:absolute;
right:20px;
top:30%;
transform:translate(-50%);
font-size:20px;
}
.wrapper .remember-forgot{
display: flex;
justify-content: space-between;
font-size: 14.5;
margin:-15px 0 15px;
}
.remember-forgot label input{
color:□#ffffff;
text-decoration:none;
}
.remember-forgot a:hover{
text-decoration:none;
color:□#fff;
}
.wrapper .btn{
width:100px;
height:45px;
background: □#fff;
border:none;
outline:none;
border-radius:40px;
box-shadow: 0 0 10 □ rgba(0,0,0,.1);
cursor:pointer;
font-size: 16px;
color:■#333;
font-weight: 600;
margin-left:35%;
}
.wrapper .register-link{
font-size: 14.5px;
text-align:center;
margin:20px 0 15px;
}

.register-link p a{
color:□#fff;
text-decoration: none;
font-weight: 600;
}
.register-link p a:hover{
text-decoration: underline;
}

```

(6)Sign-up html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
  <link rel="stylesheet" href="./signup.css"></link>
  <link href="https://unpkg.com/boxicons@2.1.4/css/boxicons.min.css" rel="stylesheet">
</head>
<body>
  <!-- <div class="background-image">
    
  </div> -->
  <div class="wrapper">
    <form action="">
      <h1>Sign-up</h1>
      <div class="input-box">
        <input type="text" placeholder="username" id="signup_username" required>
        <i class='bx bxs-user'></i>
      </div>

      <div class="input-box">
        <input type="email" placeholder="E-mail" id="signup_email" required>
        <i class='bx bxs-envelope'></i>
      </div>

      <div class="input-box">
        <input type="password" placeholder="password" id="signup_password" required>
        <i class='bx bxs-lock-alt'></i>
      </div>

      <div class="input-box">
        <input type="password" placeholder=" confirm password" id="signup_cpassword" required>
        <i class='bx bxs-lock-alt'></i>
      </div>

      <div class="remember-forgot">
        <label><input type="checkbox">Remember Me</label>
        <a href="#">Forgot Password </a>
      </div>

      <button id="signup_btn" type="submit" onclick="signup()" class="btn">Submit</button>
      <div class="register-link">
        <p>Already have a account ? <a href="./login.html">Login</a></p>
      </div>
    </form>
  </div>
  <script src="./signup.js"></script>
</body>
</html>
```

(7)sign-up css

```

*{
  margin:0;
  padding:0;
  box-sizing:border-box;
  font-family:sans-serif;
}

body {
  display: flex;
  justify-content: center;
  align-items: center;
  min-height: 100vh;
  min-width: 100vw;
  background: linear-gradient(to bottom, black, grey);
}

.background-image img{
  background-repeat: no-repeat;
  height: 100vh;
  width: 100vw;
}

.wrapper {
  width: 420px;
  background: rgba(0, 0, 0, 0.3); /* Darker semi-transparent background */
  border: 2px solid rgba(255, 255, 255, 0.1);
  backdrop-filter: blur(15px); /* Increased blur for a more pronounced effect */
  color: white;
  border-radius: 12px;
  padding: 30px 40px;
  box-shadow: 0 4px 20px rgba(0, 0, 0, 0.3); /* Slightly stronger shadow */
}

.wrapper h1{
  font-size:36px;
  text-align:center;
}

.wrapper .input-box{
  position:relative;
  width:100%;
  height:50px;
  margin:30px 0;
}

.input-box input{
  width:100%;
  height:100%;
  background: transparent;
  border: none;
  outline:none;
}

```



```

        outline:none;
        border:2px solid #ffffff9f;
        border-radius:40px;
        font-size:16px;
        color:#fff;
        padding: 20px 45px 20px 20px;
    }
    .input-box input::placeholder{
        color:#c6c1c1;
    }
    .input-box i{
        position:absolute;
        right:20px;
        top:30%;
        transform:translate(-50%);
        font-size:20px;
    }
    .wrapper .remember-forgot{
        display: flex;
        justify-content: space-between;
        font-size: 14.5;
        margin:-15px 0 15px;
    }
    .remember-forgot label input{
        color:#060606;
        text-decoration:none;
    }
    .remember-forgot a:hover{
        text-decoration:none;
        color:#050505;
    }
    .wrapper .btn{
        width:100px;
        height:45px;
        background: #f2eded;
        border:none;
        outline:none;
        border-radius:40px;
        box-shadow: 0 0 10px rgba(0,0,0,.1);
        cursor:pointer;
        font-size: 16px;
        color:#0f0e0e;
        font-weight: 600;
        margin-left: 35%;
    }
    .wrapper .register-link{
        font-size: 14.5px;
        text-align:center;
        margin:20px 0 15px;

```

```

    }
    .register-link p a{
        color:#fff;
        text-decoration: none;
        font-weight: 600;
    }
    .register-link p a:hover{
        text-decoration: underline;
    }

```