

**School of Engineering and Technology,**

**CHRIST (Deemed to be University)**

Department of Artificial Intelligence, Machine Learning

and Data Science

**FRONT END UI/UX DEVELOPMENT**

**(BTOE361T5P)**

**CIA 2**

**PROJECT REPORT 1**

**3 BTCS AIML C**

**Submitted to: Mr. Narendra**

*Submitted by:*

Ann Elizabeth (2462037) - ann.elizabeth@btech.christuniversity.in

Sasmita S (2462144) - sasmita.s@btech.christuniversity.in

Rachel Febin Pulicken (2462132) - rachel.febin@btech.christuniversity.in

CONTENTS

1. Abstract, Objectives and Scope of the Project………...01
2. Tools and Technology used……………………………02
3. HTML Structure Overview……………………………03
4. CSS Style Strategy…………………………………….03
5. Key Features…………………………………………...04
6. Challenges faced and Solutions……………………….05
7. Future Enhancements………………………………….05
8. Sample Code…………………………………………..06
9. Screenshots of Final Output…………………………...07
10. Conclusion and References………………………08

**ABSTRACT**

Wanderlust Diaries is a responsive travel blog website designed to inspire and inform adventure seekers. The goal of the project is to showcase travel destinations, tips, and personal stories through a visually engaging and user-friendly interface. Built using HTML and CSS, the site features a clean layout with a header navigation bar, a featured post section, a grid of recent travel articles, a sidebar with blogger bio and categories, and a footer with Instagram highlights and a newsletter signup.

The core technologies used are HTML for structure and CSS for styling and responsiveness, ensuring the site adapts well to different screen sizes. The final outcome is a polished, aesthetically pleasing blog that effectively organizes content and encourages user interaction. Its usefulness lies in its ability to serve as a platform for travel storytelling, audience engagement, and potentially monetization through content and subscriptions.

**OBJECTIVES**

* Build a blog homepage template suitable for storytelling and content updates.
* Apply mobile-first design principles and modular layouts.
* Organize content using cards and sidebars for readability and accessibility.

**SCOPE OF THE PROJECT**

The Wanderlust Diaries project is a front-end travel blog website designed to showcase destinations, travel tips, and personal stories in a visually appealing format. It includes a structured layout with a header for navigation, a featured post section, a grid of recent travel articles, and a sidebar containing the blogger’s bio and categorized content. The footer enhances user engagement with an Instagram photo gallery and a newsletter subscription form. The site is built using HTML and CSS, with responsive design principles applied through media queries to ensure compatibility across devices.

However, the project is limited to static front-end functionality. It does not include backend integration, meaning there is no server-side scripting or database connectivity. The newsletter form is non-functional and does not process user input. Additionally, there is no JavaScript interactivity, user authentication, or content management system, so all content must be manually updated in the code. Overall, it serves as a clean and effective prototype for a travel blog, with room for future expansion into a dynamic web application.

**TOOLS AND TECHNOLOGY USED:**

|  |  |
| --- | --- |
| TOOL/TECHNOLOGY | PURPOSE |
| HTML | Structure and layout of the web pages (e.g., header, sections, footer) |
| CSS3 | Styling elements including colours, fonts, spacing, and responsiveness |
| Flexbox & Grid | Creating flexible and responsive layouts for content and image grids |
| Media Queries | Ensuring the site adapts to different screen sizes (mobile/tablet) |
| Unsplash Images | Enhancing visual appeal with high-quality, royalty-free travel photos |
| Responsive Design | Improving user experience across devices by adjusting layout dynamically |
| Semantic Tags | Improving accessibility and SEO with meaningful HTML elements (e.g., <header>, <main>, <section>) |

**HTML STRUCTURE OVERVIEW:**

The HTML structure of the Wanderlust Diaries project is organized using semantic elements to ensure clarity, accessibility, and maintainability. It begins with the <!DOCTYPE html> declaration, followed by the <html> tag with the language attribute set to English. Inside the <head>, metadata such as character encoding, viewport settings, the page title, and a link to the external CSS file are defined. The <body> contains the main content, starting with a <header> that includes the site logo and a navigation bar with links to key sections like Home, Destinations, Travel Tips, About, and Contact.

The <main> section is divided into two primary parts: a featured post section that highlights a travel story with an image and description, and a content area. The content area includes a <section> for recent posts displayed in a responsive grid and an <aside> sidebar featuring the blogger’s bio and a categorized list of travel themes. Finally, the <footer> wraps up the page with an Instagram image gallery and a newsletter subscription form. This structured layout ensures a clean, user-friendly experience and sets a solid foundation for future enhancements.

**CSS STYLE STRATEGY:**

The CSS styling strategy for the Wanderlust Diaries project focuses on creating a clean, cohesive, and responsive design that enhances readability and visual appeal across devices. Here's a breakdown in paragraph form:

The styling begins with a global reset using the universal selector (\*) to eliminate default margins and paddings, ensuring consistent layout behavior across browsers. The box-sizing: border-box rule is applied to simplify sizing calculations. The body is styled with a neutral background color, legible sans-serif font, and comfortable line spacing to improve readability. A consistent color palette—primarily green tones (#2b5d34 and #3e7d4b)—is used throughout the site to evoke a natural, travel-inspired aesthetic.

Layout is managed using Flexbox and CSS Grid. Flexbox is used in the header, content area, and footer to align and distribute elements efficiently, while CSS Grid structures the recent posts and Instagram sections into responsive columns. Semantic sections like .featured, .card, and sidebar are styled with padding, borders, and hover effects to create visual hierarchy and interactivity. Media queries ensure the site adapts gracefully to smaller screens by stacking content vertically and adjusting padding. Overall, the strategy emphasizes modular, maintainable styles that balance aesthetics with usability.

**KEY FEATURES :**

|  |  |
| --- | --- |
| Feature | Description |
| Responsive Layout | Adapts seamlessly to desktops, tablets, and mobile devices using Flexbox, Grid, and media queries |
| Featured Post Section | Highlights a standout travel story with a large image, title, summary, and call-to-action link. |
| Recent Posts Grid | Displays multiple travel articles in a visually organized grid with images, titles, and summaries. |
| Sidebar with Bio & Categories | Introduces the blogger and provides quick access to categorized travel content. |
| Navigation Bar | Offers intuitive site-wide navigation with clearly labeled links. |
| Instagram Gallery | Showcases travel photography in a 4-column grid to enhance visual engagement |
| Newsletter Signup | Encourages user interaction by inviting visitors to subscribe for updates. |
| Consistent Styling | Uses a unified color scheme, typography, and spacing for a clean and professional look. |
| Semantic HTML Structure | Improves accessibility, SEO, and code readability through meaningful HTML tags. |

**CHALLENGES FACED AND SOLUTIONS**

|  |  |
| --- | --- |
| Challenge | Solution |
| Layout broke on mobile | Used media queries to stack content and adjust padding |
| Uneven card sizes | Set image width to 100% and height to auto |
| Navigation felt static | Added hover effects for interactivity |
| Sidebar overflowed | Stacked sidebar below content on small screens |
| Footer misaligned | Used Flexbox for even spacing |

**FUTURE ENHANCEMENTS**

To elevate the user experience and expand the functionality of *Wanderlust Diaries*, several future enhancements could be considered. Introducing a dark mode toggle would improve accessibility and make nighttime browsing more comfortable for users. Adding a search feature would allow visitors to quickly locate posts by destination, keyword, or tag, enhancing content discoverability. An interactive map integration could visually showcase travel locations, offering a more immersive and engaging experience. Incorporating a comment section or guestbook would foster community interaction and provide valuable feedback. To streamline content updates, integrating a lightweight CMS or Markdown-based editor would allow easier post management without diving into raw HTML. Performance optimizations like lazy loading images and minifying CSS/JS would improve load times and boost SEO. Enhancing accessibility through ARIA roles and keyboard navigation would make the site more inclusive. Finally, automating the newsletter signup with backend integration would simplify email collection and support future outreach efforts.

**SAMPLE CODE:**

A screenshot of a computer

AI-generated content may be incorrect.

|  | |
| --- | --- |
|  | |
|  | |
|  | |
|  | |
|  | |
|  |  | |

**SCREENSHOTS OF FINAL OUTPUT:**

A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

A collage of a person walking on a road

AI-generated content may be incorrect.

A screenshot of a phone

AI-generated content may be incorrect.

**CONCLUSION:**

This is a travel blog template website that showcases the user's skills, projects, resume, and contact form

This mini project helped us strengthen our front-end development skills using only HTML and CSS. We gained practical insights into responsive design, layout structuring, and user interface aesthetics. The hands-on implementation of design principles also enhanced our understanding of user-centric web design.

**REFERENCES:**

L&T LMS: https://learn.lntedutech.com/Landing/MyCourse