

BCA Project Report

On

“Tarang – Tours and Travels Website”

Submitted by

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2025–2026

1. Introduction

The travel and tourism industry has become one of the most vibrant sectors of the global economy, driving employment, cultural exchange, and infrastructure development. The rise of technology has transformed the way people plan, book, and experience travel. Modern travelers increasingly depend on online platforms to explore destinations, compare packages, and make informed travel decisions.

The internet has allowed tourism businesses to expand their reach, enabling even small operators to connect with customers worldwide. In this context, Tarang – Tours and Travels Website was conceptualized as a front-end web development project under the Bachelor of Computer Applications (BCA) curriculum.

The purpose of Tarang is to present an elegant, user-friendly, and visually appealing travel website built using HTML, CSS, and JavaScript. While the project does not involve backend databases or dynamic features, it accurately represents the structure and aesthetic commonly found in professional travel portals.

Tarang focuses on displaying travel packages, themed categories, and essential services such as flight bookings, hotel accommodations, tours and activities, and airport transfers. It demonstrates how a static website can still effectively communicate information, inspire travel, and provide a smooth browsing experience.

This report documents the complete development of the Tarang website. It also provides insights into the tourism industry, feasibility of the project, design methodology, implementation process, outcomes achieved, and future enhancements that can be integrated to evolve it into a fully functional platform.

2. Objective

The objectives of the Tarang Travel Website Project are divided into two categories: domain objectives (related to tourism) and technical objectives (related to website development).

The primary domain objectives are:

- To create a structured platform for showcasing different travel themes and destinations.
- To provide visitors with engaging content that encourages exploration and travel planning.
- To present information in a way that is visually attractive and easy to navigate.
- To reflect real-world travel website behavior through a simplified model.

The technical objectives are:

- To develop a responsive, front-end travel website using HTML, CSS, and JavaScript.
- To implement clean and semantic HTML structures for readability and accessibility.
- To design an aesthetically pleasing layout using CSS, focusing on a bright orange and cream theme.
- To ensure that the website adapts to different screen sizes through responsive design techniques.
- To understand and apply basic UI/UX principles suitable for the tourism domain.

3. Project Details

The project titled “Tarang – Tours and Travels Website” is a front-end web development project designed as part of the BCA course curriculum. It aims to create a static but comprehensive travel website that captures the look and feel of a professional travel platform.

The website consists of multiple sections arranged in a single scrolling page:

- A hero section that introduces the website with attractive visuals and a call-to-action.
- A Packages section that categorizes travel experiences into Nature Escapes, Romantic Getaways, Adventure Trips, Village Experiences, and Beach Bliss.
- A Services section explaining flight booking, hotel reservations, tours and activities, and airport transfers.
- A Contact section with essential details like office address, contact number, and email.

The entire website is built using front-end technologies only, without server-side scripting or databases. The focus was on creating a visually appealing, responsive, and structured platform. The bright orange and cream color palette reflects warmth, enthusiasm, and energy — aligning well with the spirit of travel and exploration.

Development tools used include Visual Studio Code for writing code and modern browsers for testing. The project is optimized for smooth scrolling and basic responsiveness across devices.

4. Activity

The development of the Tarang Travel Website followed a step-by-step and structured activity flow, similar to professional web development practices. The activities were planned to ensure clarity in design, code structure, and overall project execution.

The first activity was requirement gathering and planning. At this stage, the purpose of the website, the target audience, and the essential features were identified. Since this was a front-end focused academic project, the primary requirement was to create a static but elegant travel website without backend integration.

The second activity involved content planning and theme selection. Different travel categories such as nature escapes, romantic getaways, adventure trips, and beach holidays were finalized. The bright orange and cream theme was selected to give the website a lively and warm look. The structure of the homepage, packages section, services section, and contact section was also planned during this phase.

The third activity was designing the layout using wireframes and sketches. A simple single-page linear scrolling design was chosen for clarity and easy navigation. This was followed by HTML structure creation, where the content and sections were implemented using semantic HTML5 elements.

After the structure was completed, CSS styling was applied to create a visually appealing design. This included defining color palettes, fonts, spacing, margins, and media queries to ensure responsiveness. Finally, JavaScript enhancements were added for interactive elements like smooth scrolling and mobile menu toggling.

The last activity was testing, where the website was checked on different devices and browsers to ensure a smooth and consistent user experience. Minor CSS adjustments were made for better compatibility.

5. Outcomes

The completion of the Tarang Travel Website resulted in several tangible and intangible outcomes.

Firstly, a fully designed front-end travel platform was created, which resembles professional tourism websites in structure and presentation. The website provides users with clear navigation and an organized display of travel categories and services.

Secondly, the project gave valuable hands-on experience in HTML, CSS, and JavaScript, which are fundamental technologies for web development. The implementation of a thematic design and responsive structure improved the understanding of real-world web practices.

Thirdly, the project enhanced the understanding of tourism as a domain, as research was conducted on types of tourism, services, and market expectations.

Additionally, through this project, teamwork, project planning, and problem-solving skills were strengthened. The students were able to apply classroom knowledge to build something practical and relevant. The outcome is not only a website but also a complete documented case study of front-end project development in the tourism sector.

6. Feasibility Study

The feasibility study ensures that the project is viable from technical, operational, and economic perspectives.

Technical feasibility:

The Tarang Travel Website is technically feasible as it uses widely available and reliable technologies — HTML, CSS, and JavaScript. It does not require advanced infrastructure or expensive tools. Development can be done using a basic text editor and a modern web browser. Responsive design techniques are applied to make the website compatible with different devices.

Operational feasibility:

From an operational point of view, the website is straightforward to use. All sections are presented on a single scrolling page, with clear navigation links at the top. Visitors do not require any prior training to access or understand the content. It is suitable for any user interested in exploring travel packages and services.

Economic feasibility:

The cost of developing the website is minimal since all technologies used are free and open-source. No paid hosting, software, or tools are required. Maintenance is also minimal as the site is static and does not rely on dynamic content or databases. This makes Tarang an economically sustainable project, especially for small tourism startups or academic purposes.

7. Preliminary Design

The preliminary design stage is crucial as it determines the layout, navigation, color scheme, and overall user experience of the website before actual coding begins.

The layout design of Tarang follows a single-page, section-based structure. This linear scrolling design helps users smoothly move through the different sections — starting from the homepage banner, moving to the travel packages, then services, and finally to the contact section.

The navigation design is simple and fixed at the top, allowing users to jump to different sections with ease. Anchor-based links are used to scroll smoothly to the corresponding section without reloading the page.

The color scheme consists primarily of bright orange and cream shades, giving the website a cheerful, warm, and inviting look that suits the theme of travel and exploration. The typography is clean and modern, enhancing readability.

Each section is clearly defined:

- The Homepage contains the main banner and introductory content.
- The Packages section displays travel themes such as Nature, Romantic, Adventure, Village, and Beach.
- The Services section lists flight booking, hotel booking, tours and activities, and airport transfers.
- The Contact section provides location and communication details.
- This careful planning in the preliminary design ensured a clean, professional, and consistent structure during implementation.

8. Implementation

The implementation of the Tarang Travel Website was carried out using HTML5, CSS3, and JavaScript, following modern web development standards. The implementation was done in phases to ensure clarity, functionality, and design consistency.

The first phase was HTML structure creation. Semantic HTML tags were used to define the main sections of the page — header, navigation, hero banner, packages, services, and contact. This helped maintain a clear and meaningful structure, improving readability and accessibility.

The second phase involved CSS styling, where the layout and visual design were developed. The bright orange and cream color palette was applied consistently across all sections to establish a recognizable theme. CSS was used for margins, spacing, font styles, hover effects, responsive breakpoints, and animations. Media queries were implemented to adjust the layout for different screen sizes, ensuring that the website looked and functioned well on desktops, tablets, and mobile devices.

The third phase was JavaScript integration. Lightweight JavaScript was added to enable smooth scrolling navigation and handle the toggling of the mobile menu. Since this is a static front-end website, there were no dynamic components or data handling required. However, the JavaScript ensured a modern, interactive browsing experience.

After the core structure and styling were implemented, testing and fine-tuning were done to fix layout inconsistencies and verify browser compatibility. Adjustments were made to ensure that images, fonts, and sections scaled properly on all viewports. The website was then finalized as a static project, ready for deployment on free hosting platforms such as GitHub Pages or Netlify if needed.

9. Future Enhancement

Although Tarang is a static website, it provides a strong foundation for future development into a fully functional tourism platform. There are several enhancements that can be integrated to expand its scope and capabilities.

One major enhancement would be to introduce a backend system and database integration. Technologies such as Node.js, PHP, or Python could be used on the server side, with a database like MySQL or MongoDB to store user information, booking data, and dynamic package details. This would allow the website to support real-time bookings, user accounts, and content management.

Another enhancement could be to integrate a payment gateway for secure online payments. Users could browse packages, select dates, and complete bookings without leaving the website. A proper authentication system could be added to allow users to log in, track their trips, and receive personalized recommendations.

The search and filter functionality could also be improved to help users find specific destinations or packages based on preferences like budget, duration, and theme. Additionally, third-party APIs such as flight or hotel booking services could be integrated to fetch real-time information.

On the design side, advanced accessibility features, multilingual support, and SEO optimization could make the site more inclusive and discoverable. Overall, these enhancements would transform Tarang from a static academic project into a professional-grade tourism portal.

10. Conclusion

The Tarang Travel Website project successfully demonstrates the use of fundamental web technologies to create a theme-based, responsive, and visually engaging travel platform. Through this project, theoretical knowledge gained during the BCA program was applied in a practical manner to build a structured and meaningful website.

The report covers not only the implementation of the website but also the understanding of the travel and tourism domain, planning methodology, feasibility analysis, and future scope. By focusing on front-end development, the project emphasizes design clarity, responsiveness, and usability — all of which are crucial elements in modern web development.

This project has provided valuable learning in areas of HTML structure, CSS design principles, responsive layouts, and basic interactivity with JavaScript. Additionally, it has encouraged research into the travel industry and an understanding of how digital platforms can influence tourism.

While Tarang currently functions as a static platform, it has the potential to be extended into a full-fledged dynamic application with booking systems, backend integration, and real-time data. Overall, the project has been a significant academic and practical exercise in web development and project documentation.