

**A**  
**Learning Project-I Report**  
**On**  
**“Travel Bliss- A tour and travel website”**  
*Submitted in partial fulfillment of*  
*the requirements for the 3<sup>rd</sup> semester sessional examination of*  
**BACHELOR OF TECHNOLOGY**

*In*  
**COMPUTER SCIENCE & ENGINEERING**

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**GIET UNIVERSITY, GUNUPUR**

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**CERTIFICATE**

This is to certify that the project work entitled “**Travel Bliss- A tour and travel website**” is done by **Swetapadma Sahu (23UG010092), Arpita Sasmal (23UG010096), Sneha Barik (23UG010304)** in partial fulfillment of the requirements for the 3<sup>rd</sup> Semester Sessional Examination of Bachelor of Technology in **Computer Science and Engineering** during the academic year 2024-25 This work is submitted to the department as a part of evaluation of 3<sup>rd</sup> Semester Learning Project- I.

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## **TABLE OF CONTENTS**

<b>CHAPTER 1</b>	<b>01-02</b>
1.1 Abstract	01-02
<b>CHAPTER 2</b>	<b>03-10</b>
2.1 Introduction	03-04
2.2 Purpose	05
2.3 Scope	06-07
2.4 Features	08-10
<b>CHAPTER 3</b>	<b>11-12</b>
3.1 Work done in related area	11-12
<b>CHAPTER 4: SYSTEM ANALYSIS</b>	<b>13-16</b>
4.1 User Requirements	13-14
4.2 Software Requirements	15-16
<b>CHAPTER 5: SYSTEM DESIGN &amp; SPECIFICATION</b>	<b>17-24</b>
5.1 HIGH LEVEL DESIGN	17-18
5.1.1 Flow Chart	17
5.1.2 ER Diagram	18
5.2 LOW LEVEL DESIGN	19-25
5.2.1 Project specification	19-21
5.2.2 Screen-Shorts	21-25
<b>CHAPTER 6</b>	<b>26-28</b>
Project coding	26-28
<b>CHAPTER 7</b>	<b>28-30</b>
Testing	28-31
<b>CHAPTER 8</b>	<b>32-33</b>
Conclusion	32-33
References	34

# CHAPTER – 1

## 1.1: ABSTRACT

The Tour and Travel Website is a cutting-edge platform meticulously crafted to revolutionize the travel planning experience for contemporary travelers. By leveraging an advanced stack of HTML, CSS, JavaScript, PHP, and MySQL, this platform offers a comprehensive suite of features designed to streamline the discovery, booking, and enjoyment of travel destinations, making it an indispensable tool for both seasoned globetrotters and casual explorers.

The platform boasts a clean, user-friendly design, ensuring a seamless navigation experience for users as they browse through an extensive array of travel packages, destinations, and personalized itineraries tailored to their preferences. Dynamic, interactive elements powered by JavaScript enhance engagement, providing real-time updates and personalized recommendations based on user interactions. On the back-end, PHP and MySQL facilitate efficient and secure management of a robust database that stores destinations, travel packages, and user information, all while delivering real-time updates on travel deals, availability, and pricing to provide users with the most current information.

Advanced algorithms analyze user behavior and preferences, offering tailored travel suggestions, exclusive deals, and curated itineraries that enrich the user experience. Users can create and manage profiles to save preferences, track past travels, and compile wish lists, making the planning process both personalized and efficient. With secure payment gateways employing encryption protocols, transactions remain safe, and user data is protected, giving users confidence in booking their travel arrangements. Additionally, users have easy access to booking management features, allowing for convenient modifications and cancellations.

The platform's responsive design guarantees accessibility across a range of devices, including desktops, tablets, and smartphones, enabling users to plan and book their travels while on the go. Enhanced accessibility features also cater to a wide variety of users, ensuring that the platform's benefits are available to all. A community-driven approach is fostered through user-generated reviews and ratings, allowing travelers to share experiences and provide feedback. This social integration, along with comprehensive customer support, ensures a seamless and satisfying experience.

Marketing and promotions are strategically designed, using targeted campaigns to reach potential travelers, offering exclusive deals and seasonal discounts to encourage bookings. Integrated social media features allow users to share their travel experiences, reviews, and itineraries, boosting platform

visibility and user engagement. The front-end is developed with HTML, CSS, and JavaScript for an aesthetically pleasing and user-friendly experience, while the back-end leverages PHP to handle server-side logic and data processing, with MySQL managing travel-related data and user information efficiently.

Security is prioritized with secure coding practices and encryption protocols for data transmission, ensuring the protection of user data and safe transaction processing. Designed for scalability, the platform can accommodate increasing loads of users and data, delivering consistent performance and reliability as the user base grows.

To further elevate the user experience, the platform incorporates a variety of innovative features that distinguish it in the competitive travel industry. By using AI-driven insights, it continuously refines its recommendations, offering users an ever-evolving set of personalized travel options and experiences. The platform is designed to be intuitive and visually appealing, keeping the user journey smooth and engaging from initial exploration to final booking. Its commitment to security and user trust is evident in its strict data protection protocols and transparent transaction processes, which reassure users at every step. With a focus on future expansion, the platform is built to integrate additional features seamlessly, such as multilingual support and expanded travel options, ensuring it remains a trusted, go-to resource for travelers worldwide.

## **CHAPTER –2**

### **2 .1:INTRODUCTION**

Travel Bliss is built with a commitment to ease and efficiency, offering a user centric approach that prioritizes intuitive navigation and streamlined functionality. From the moment users land on the homepage, they are welcomed by a clean, visually appealing design that encourages exploration. The layout is organized to make it easy for users to access key sections like destination listings, bookings, and user profiles. By focusing on clarity and simplicity, Travel Bliss ensures that users, regardless of their familiarity with technology, can navigate the platform effortlessly and find exactly what they need.

One of the standout aspects of Travel Bliss is its comprehensive destination Listings. Unlike many travel websites that focus solely on popular locations, Travel Bliss curates a diverse mix of well-known tourist spots and hidden gems. Each destination is accompanied by a detailed description that covers must-see attractions, local culture, seasonal highlights, and practical travel information, giving users a well-rounded view of what each place has to offer. High-quality images immerse users in the atmosphere of each location, while a rating system lets them quickly assess the popularity and satisfaction of each option. By providing this level of detail, Travel Bliss empowers users to make informed choices that align with their preferences and interests.

Travel Bliss also prioritizes security and personalization through its user registration and login features. Each registered user can create a unique profile where they can save preferred destinations, manage bookings, and access personalized recommendations. This feature is not only about convenience; it creates a secure environment where users can trust that their information and transactions are protected. The platform uses industry-standard encryption protocols, which reassure users as they browse, book, and manage their travel plans. Additionally, user profiles allow for tailored recommendations based on past interactions, ensuring that users discover destinations and activities suited to their tastes.

The tour booking feature is designed to minimize the complexities often associated with arranging a trip. Rather than navigating multiple websites, users can book everything from accommodations to tours and activities directly on Travel Bliss. This integrated booking system reduces the need for additional steps, enabling users to plan their trips in one go. For added flexibility, Travel Bliss also offers easy modification and cancellation options, allowing users to adjust their plans if needed without stress. The

booking system is designed to be quick and efficient, catering to today's travelers who value speed and convenience.

Customer Reviews and the community aspect of Travel Bliss further enhance the user experience. By enabling users to share their experiences through reviews and ratings, the platform fosters a sense of connection and trust. Potential travelers can read first-hand accounts and gain valuable insights that guide their choices, while seasoned travelers can share tips and recommendations. This community-driven model not only enriches the user experience but also builds credibility, as users know they can rely on genuine feedback from fellow travelers.

As a platform built with future growth in mind, Travel Bliss is designed to be highly scalable. This scalability allows it to support an increasing number of users and destinations as the platform expands. Anticipating future trends in travel, Travel Bliss plans to incorporate additional features, such as local experience guides, multi-language support, and loyalty programs that reward frequent users. These upcoming enhancements will ensure that Travel Bliss continues to meet the evolving needs of its audience, offering a platform that grows alongside its users' aspirations.

In summary, Travel Bliss is more than just a booking platform; it is a travel companion that accompanies users throughout their travel journey. By combining an intuitive design with a rich set of features, Travel Bliss provides a seamless, enjoyable, and secure travel planning experience. With its dedication to quality, community, and continuous improvement, Travel Bliss is well-positioned to become an essential tool for travelers looking to explore the world with confidence and ease.



## **2.2: PURPOSE**

The purpose of the Travel Bliss project is to provide users with a convenient, comprehensive platform for planning, exploring, and booking travel destinations. In a digital era where travelers prioritize both efficiency and personalization, Travel Bliss seeks to bridge the gap between traditional travel planning and the expectations of modern users. It aims to simplify the travel planning process, allowing users to discover new destinations, book tours, and arrange accommodations within a single, cohesive interface.

Travel Bliss is designed to enhance the overall travel experience by making it enjoyable, efficient, and secure. Through features such as personalized recommendations, a streamlined booking system, and real-time updates, the platform caters to the needs of various user groups—whether they are families, solo travelers, or adventure seekers. The project’s purpose is also to foster a sense of community, enabling users to share their travel experiences, insights, and reviews, which further builds trust and enriches the planning process.

Additionally, Travel Bliss supports administrators with a structured back-end that allows efficient management of listings, bookings, and customer interactions, ensuring smooth operations and high-quality service. Overall, the purpose of Travel Bliss is to be an all-in-one travel solution, empowering users to plan their trips confidently and with ease, ultimately transforming the travel booking experience into one that is seamless, enjoyable, and highly accessible.

Another key purpose of the Travel Bliss project is to make travel planning accessible to everyone, regardless of their technical expertise or travel experience. By focusing on a user-friendly design and intuitive navigation, Travel Bliss ensures that users can explore destinations and book tours without feeling overwhelmed. The platform’s responsive design also supports accessibility across various devices, allowing users to plan trips conveniently, whether they’re on a computer at home or on a smartphone while on the go. By integrating secure payment gateways, user profiles, and personalized travel suggestions, Travel Bliss combines convenience with safety, empowering users to take control of their travel plans in a way that feels both simple and secure.

Furthermore, Travel Bliss aims to foster a lasting relationship between travelers and the destinations they visit. Beyond just booking a trip, the platform is designed to create a memorable and immersive experience that builds anticipation and excitement. With its curated destination listings, user-generated reviews, and interactive elements, Travel Bliss inspires users to explore new places and embark on adventures that align with their unique interests.

## 2.3: SCOPE

The scope of the Travel Bliss project encompasses the development and deployment of a comprehensive, user-friendly platform that facilitates every aspect of travel planning and booking. Designed to serve a diverse user base, including families, solo travelers, adventure enthusiasts, and casual explorers, Travel Bliss aims to cater to a wide demographic with different travel preferences and requirements. By providing a cohesive platform for discovering destinations, booking accommodations, and accessing real-time travel information, Travel Bliss strives to simplify and enhance the travel planning experience for users across the globe.

**Cross-Device Compatibility:** One of the primary aspects of Travel Bliss's scope is accessibility across various devices, including desktops, tablets, and smartphones. The platform is designed with responsive functionality that adapts seamlessly to different screen sizes, ensuring a smooth, uninterrupted experience for users regardless of how they access the site. This cross-device compatibility allows users to plan trips from home or on the go, adding a layer of convenience and flexibility to their travel planning.

**Back-end Functionality for Administrators:** On the administrative side, the project scope includes the development of a structured back-end system. This system empowers administrators to manage all aspects of the platform efficiently, from adding and updating destination listings to overseeing bookings and addressing customer queries. Through a dedicated admin panel, administrators can maintain real-time information, ensuring that users have access to the latest offerings and support. The back-end also includes data analytic tools that provide insights into user behavior, popular destinations, and booking trends, guiding future platform enhancements.

**Future Expansion and Additional Features:** The scope of Travel Bliss extends beyond its current functionalities, with plans for future growth and expansion. Anticipated features include a loyalty program to reward frequent users with exclusive discounts and personalized offers, encouraging long-term engagement and retention. The platform also plans to expand its destination catalog by adding new locations and integrating local experiences such as guided tours, cultural events, and adventure activities, allowing users to immerse themselves in each destination's authentic essence. Additionally, multi-language support and AI-driven recommendations may be implemented to improve personalization and accessibility for a global user base.

**Security and Data Privacy:** Ensuring user data security and privacy is integral to the scope of Travel Bliss. By employing industry-standard encryption and secure payment gateways, the platform protects users' personal and financial information, building trust and confidence in the booking process. The

project scope includes regular security updates and compliance with data protection regulations, maintaining a safe environment for users to browse, book, and engage with the platform.

In summary, the scope of Travel Bliss includes creating a comprehensive, scalable platform that adapts to the changing needs and preferences of modern travelers. By continuously expanding its offerings, Travel Bliss is positioned to become a reliable and essential tool for travelers worldwide, helping them turn their travel aspirations into reality.

In addition to its core features, the scope of Travel Bliss includes fostering a vibrant travel community that encourages user engagement and sharing. The platform not only enables users to leave reviews and ratings but also plans to incorporate social sharing tools, allowing users to showcase their travel experiences across various social media channels. By building an interactive space for travelers, Travel Bliss aims to inspire users with real stories, tips, and recommendations from fellow explorers. This community-driven approach not only enhances user trust but also adds an authentic layer to the platform's travel content, making Travel Bliss a go-to resource for travelers looking for genuine advice and inspiration.

## 2.4:FEATURES

The Travel Bliss project is designed with several key features that enhance the user experience, streamline travel planning, and ensure a seamless booking process. These features are aimed at providing convenience, security, and personalization for travelers while also offering efficient management tools for administrators. Here is an overview of the core features of the Travel Bliss platform:

### **User Registration and Login:**

Travel Bliss offers a secure registration and login system that allows users to create personal accounts. By registering, users can access personalized features such as saved destinations, booking history, and tailored recommendations. The login system is designed to ensure ease of access, with encrypted data protection to safeguard users' personal information.

### **Destination Listings:**

The platform features a comprehensive catalog of travel destinations, including both well-known tourist spots and hidden gems. Each destination listing provides detailed descriptions, high-quality images, essential travel information, and user reviews. To make the search process easier, Travel Bliss offers filters that allow users to search by region, budget, experience type (such as adventure or relaxation), or specific interests.

### **Tour Booking:**

Travel Bliss simplifies the booking process by allowing users to reserve tours, activities, and accommodations with just a few clicks. After selecting a destination, users can view available travel packages, check dates, and complete bookings directly through the website. An integrated payment gateway ensures secure transactions, making it easy for users to complete their bookings with peace of mind.

### **Customer Reviews and Ratings:**

The platform encourages user-generated reviews, where travelers can share their experiences, rate destinations, and upload photos. This feature helps create a community-driven platform where users can learn from one another's experiences and make more informed decisions. Reviews also enhance transparency, offering valuable insights into each destination and its offerings.

**Admin Panel:**

Travel Bliss includes a powerful admin panel that allows administrators to manage the platform's content and functionality. Admins can update destination listings, monitor bookings, and respond to user inquiries in real time. The back-end system also includes data analytic tools that provide insights into user behavior, popular destinations, and booking patterns, which help improve the platform and optimize offerings.

**Personalized Recommendations:**

Using advanced algorithms, Travel Bliss offers personalized travel suggestions based on user behavior, preferences, and past bookings. This feature ensures that users receive tailored recommendations for destinations, activities, and deals, enhancing their overall experience and making it easier to discover new places that match their interests.

**Responsive Design:**

The platform is built with a responsive design that ensures users can access and use Travel Bliss seamlessly across desktops, tablets, and smartphones. This feature guarantees that the user experience remains consistent and high-quality, regardless of the device being used to plan a trip.

**Secure Payment Integration:**

Travel Bliss integrates secure payment gateways that protect users' financial information. By using encryption protocols and following industry standards for online transactions, the platform ensures that all payments are processed safely and efficiently.

**Booking Management:**

Users can easily manage their bookings through the platform. This includes modifying or canceling existing reservations, tracking upcoming tours, and reviewing past bookings. The booking management system is designed for simplicity and convenience, making it easy for users to stay organized.

**Community Engagement Tools:**

Travel Bliss includes features that foster community engagement, such as user reviews, forums, and social media sharing options. This not only helps users connect with others who have similar travel interests but also builds a community-driven platform where experiences and travel tips are shared freely.

**Future Expansion Capabilities:**

The platform is designed to scale and grow, with future features in mind, including a loyalty program, integration of local experiences (like guided tours and cultural events), and multi-language support for global accessibility. Travel Bliss will continue to evolve, adding new destinations and services to meet the growing demands of its user base.

These features combine to make Travel Bliss a comprehensive, user-friendly platform that helps travelers explore, plan, and book their ideal trips while offering valuable tools for administrators to manage the platform efficiently. The focus on security, ease of use, and personalized recommendations ensures that Travel Bliss stands out as a reliable and engaging travel solution.

## CHAPTER – 3

### 3.1 Works done in the related area

In the related area of travel and tour platforms, several key works and developments have been done to enhance the travel booking and planning experience. These works have contributed to improving user experience, streamlining booking processes, and creating personalized travel platforms. Below are some notable works and trends in the related area:

#### **Online Travel Agencies (OTAs):**

Companies like Expedia, Booking.com, and TripAdvisor have pioneered the online travel agency model, offering a comprehensive platform for users to search for, compare, and book accommodations, flights, and activities. These platforms allow users to customize their travel experiences, read user reviews, and benefit from exclusive deals and promotions. Their success has influenced Travel Bliss to implement similar features, such as curated destination listings, secure bookings, and user reviews.

#### **Personalized Recommendation Systems:**

Leading travel websites have adopted advanced machine learning algorithms to provide personalized recommendations based on user preferences, past behavior, and search history. For example, platforms like Airbnb and Google Travel use data-driven insights to suggest destinations, activities, and accommodations tailored to individual users. Travel Bliss incorporates a similar approach by offering AI-powered suggestions, enhancing the user experience by delivering customized travel options.

#### **Mobile Travel Apps:**

Many travel companies, including Skyscanner, Kayak, and Google Trips, have developed mobile applications that allow users to plan their trips on-the-go, offering instant access to flight bookings, hotel reservations, and local experiences. These apps often include features like itinerary management, real-time updates, and push notifications for exclusive deals. The Travel Bliss platform embraces this trend by being fully responsive, ensuring that users can access it seamlessly on mobile devices.

#### **User-Generated Content (UGC):**

Websites like TripAdvisor and Yelp have utilized user-generated content extensively, allowing travelers to leave reviews, post photos, and share detailed experiences about their trips. This UGC provides valuable insights for future travelers, helping them make informed decisions. Travel Bliss also integrates this feature by allowing users to leave reviews, rate destinations, and upload photos, promoting transparency and building trust within the travel community.

**Integrated Payment Gateways:**

The integration of secure payment systems has been a crucial development for online travel platforms. Websites like Airbnb, Booking.com, and PayPal have ensured that users can securely pay for their bookings using various payment methods such as credit cards, debit cards, and e-wallets. Travel Bliss follows suit by implementing secure payment gateways, ensuring that user data is protected and transactions are safe.

**Loyalty Programs:**

Travel platforms like Expedia and Marriott have introduced loyalty programs that reward frequent travelers with discounts, exclusive deals, and other perks. This concept is designed to increase customer retention and brand loyalty. In the future, Travel Bliss aims to implement a similar loyalty program, offering benefits to returning users and encouraging repeat bookings.

**Virtual and Augmented Reality (VR/AR) for Travel Exploration:**

Some innovative platforms, such as Thomas Cook and Airbnb, have started incorporating VR/AR technologies to offer virtual tours of destinations and accommodations. This feature helps users experience a destination or property before making a booking decision. Travel Bliss could explore integrating such immersive technologies to give users a preview of destinations or activities, adding an extra layer of engagement.

These works in the related area of travel and tourism highlight the importance of personalization, user-generated content, secure payments, and mobile accessibility. Travel Bliss aims to incorporate these features while adding its own unique touch, making the platform more engaging, user-friendly, and comprehensive. As the travel industry continues to evolve, the implementation of cutting-edge technologies and user-focused features will be key to maintaining a competitive edge.



# **CHAPTER – 4**

## **SYSTEM ANALYSIS**

### **4.1 : USER REQUIREMENT**

The user requirements for the **Travel Bliss** platform encompass both functional and non-functional requirements to ensure that the website delivers a seamless, efficient, and enjoyable experience for users. These requirements are designed to meet the needs of diverse users, including travelers, administrators, and the platform itself. Below is a breakdown of the user requirements for the Travel Bliss project:

#### **1. Functional Requirements**

##### **a. User Registration and Login:**

- Users must be able to create an account by providing essential information (e.g., name, email, password).
- Users should be able to log in securely using their credentials.
- The platform should provide options for password recovery in case of forgotten passwords.
- User data should be securely stored using encryption methods.

##### **b. Destination Listings:**

- The platform should provide an extensive list of travel destinations, both popular and hidden gems, with descriptions, images, and key information.
- Each destination should include user-generated reviews, ratings, and detailed travel information.
- Filters should allow users to sort destinations by region, budget, type of experience (adventure, relaxation, family-friendly, etc.), and interests.
- Users should be able to search destinations by keywords or categories.

##### **c. Tour Booking:**

- Users must be able to view available travel packages, activities, and accommodations for selected destinations.
- Users should be able to select dates, view availability, and complete booking transactions.

- The system should support multiple payment methods (credit cards, debit cards, PayPal, etc.).
- A secure payment gateway should be integrated to process payments and ensure safe transactions.
- Users should receive booking confirmations and details via email.

#### **d. Customer Reviews and Ratings:**

- Users should be able to leave reviews and rate destinations or activities.
- Reviews should allow users to include written comments, star ratings, and photo uploads.
- Reviews should be organized by relevance and rating, allowing other users to sort through them easily.

#### **e. Admin Panel:**

- Administrators should have access to a back-end dashboard to manage the platform.
- Admins should be able to add, update, or remove destinations and travel packages.
- Admins should be able to monitor user bookings, view analytic on popular destinations, and track booking trends.
- Admins should be able to respond to customer queries and reviews directly through the platform.

#### **f. Personalized Recommendations:**

- The platform should provide users with personalized recommendations based on their past searches, bookings, and preferences.
- Users should be able to save favorite destinations and travel plans for easy access later.

#### **g. Multi-Device Compatibility:**

- The platform must be responsive and accessible across multiple devices (desktop, tablet, mobile).
- The website should maintain a consistent user experience regardless of the device.

#### **h. Booking Management:**

- Users should be able to view, modify, or cancel their bookings through their account.
- Booking details, including payment history and travel itineraries, should be easily accessible to users.

## 4.2 : SOFTWARE REQUIREMENT

### 1. Front-end Requirements:

#### a. Web Browsers:

- **Google Chrome** (latest version)
- **Mozilla Firefox** (latest version)
- **Safari** (latest version)
- **Microsoft Edge** (latest version)

The website should be compatible with all major browsers to ensure a consistent user experience across platforms.

#### b. HTML:

- The platform will be built using HTML for structuring the content on the web. HTML5 offers better semantics and support for multimedia content, making it an ideal choice for creating a well-structured, accessible web page.

#### c. CSS:

- **CSS** will be used to style the website and ensure that the user interface is visually appealing. CSS3 provides advanced styling features like animations, transitions, and responsive layouts.

#### d. JavaScript:

- **JavaScript** will be used to add interactivity to the website. This includes handling form submissions, user interactions like clicks, and dynamic content updates without reloading the page. JavaScript will also be used for validation, AJAX requests, and updating content on the page in real-time.

### 2. Back-end Requirements:

#### a. PHP:

- **PHP** will handle the server-side logic of the platform. It will be used for managing user registration and login, processing bookings, interacting with the database, and handling form

submissions. PHP provides a secure way to manage user data, process payments, and display dynamic content based on the user's actions.

#### **b. MySQL:**

- **MySQL** will serve as the database management system for storing and retrieving data. It will be used to manage user profiles, destination listings, bookings, reviews, and other critical data. **phpMyAdmin** can be used as a tool to manage MySQL databases via a web interface.
- The database will consist of tables for users, destinations, bookings, and reviews.

### **3. Security Requirements**

#### **a. HTTPS:**

- The website should be served over HTTPS to encrypt data during transmission. SSL certificates are essential for ensuring secure communication between the user and the server.

#### **b. Password Hashing:**

- **PHP password\_hash()** function will be used to securely hash user passwords before storing them in the database, preventing plain-text password storage and improving security.

#### **c. SQL Injection Prevention:**

- **Prepared Statements** in PHP will be used to interact with the MySQL database safely and prevent **SQL injection attacks**.

### **4. Development and Deployment Tools:**

#### **a. Local Development Environment:**

- **XAMPP** or **WAMP**: These are free and open-source cross-platform web server solutions that allow you to run PHP and MySQL on your local machine for development purposes.
- **phpMyAdmin**: For managing MySQL databases and executing SQL queries.

#### **b. Code Editor:**

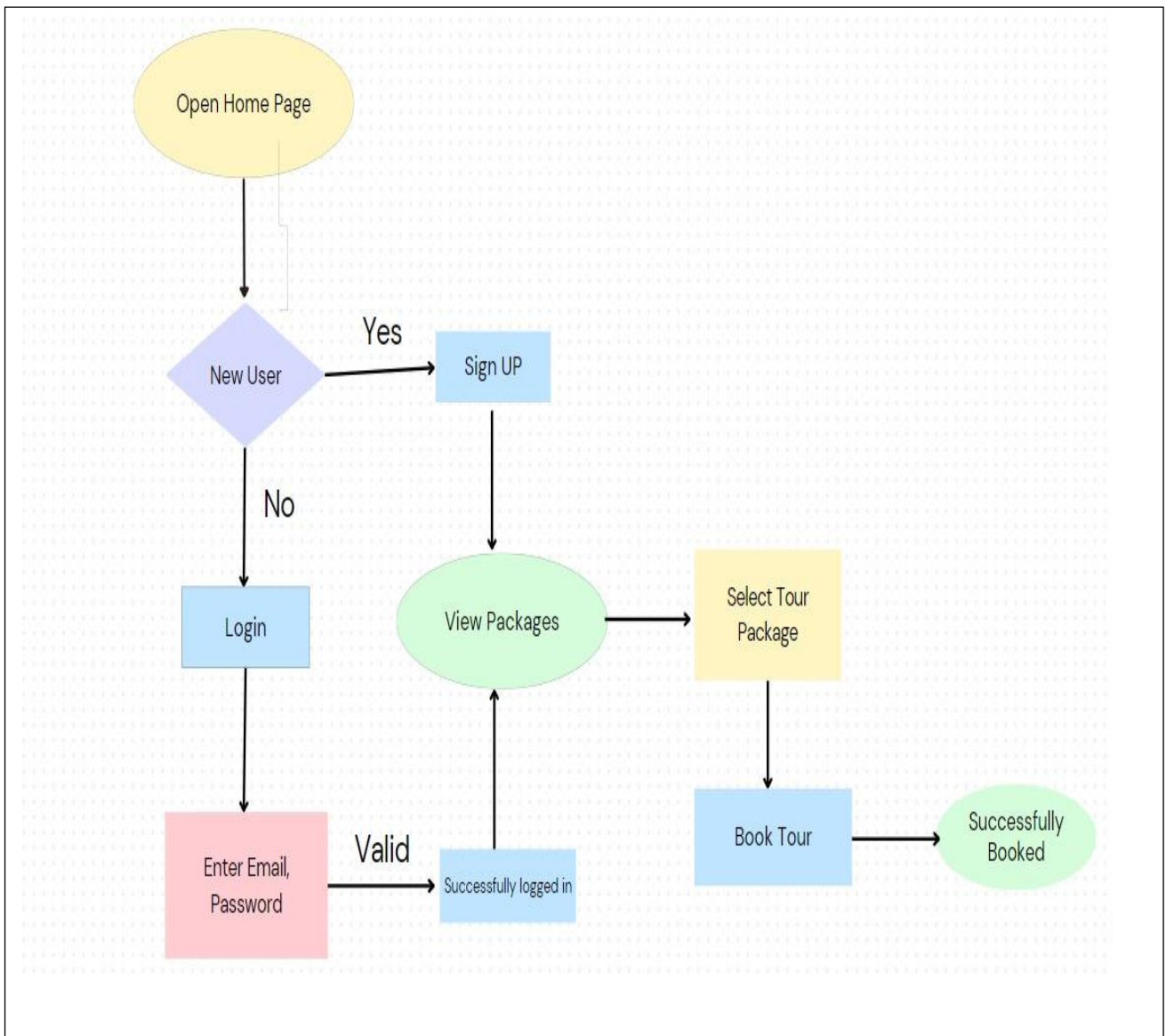
- **Visual Studio Code** or **Sublime Text**: These are popular code editors that provide syntax highlighting, code suggestions, and extensions that make coding in HTML, CSS, JavaScript, and PHP easier.

## CHAPTER – 5

### SYSTEM DESIGN & SPECIFICATION

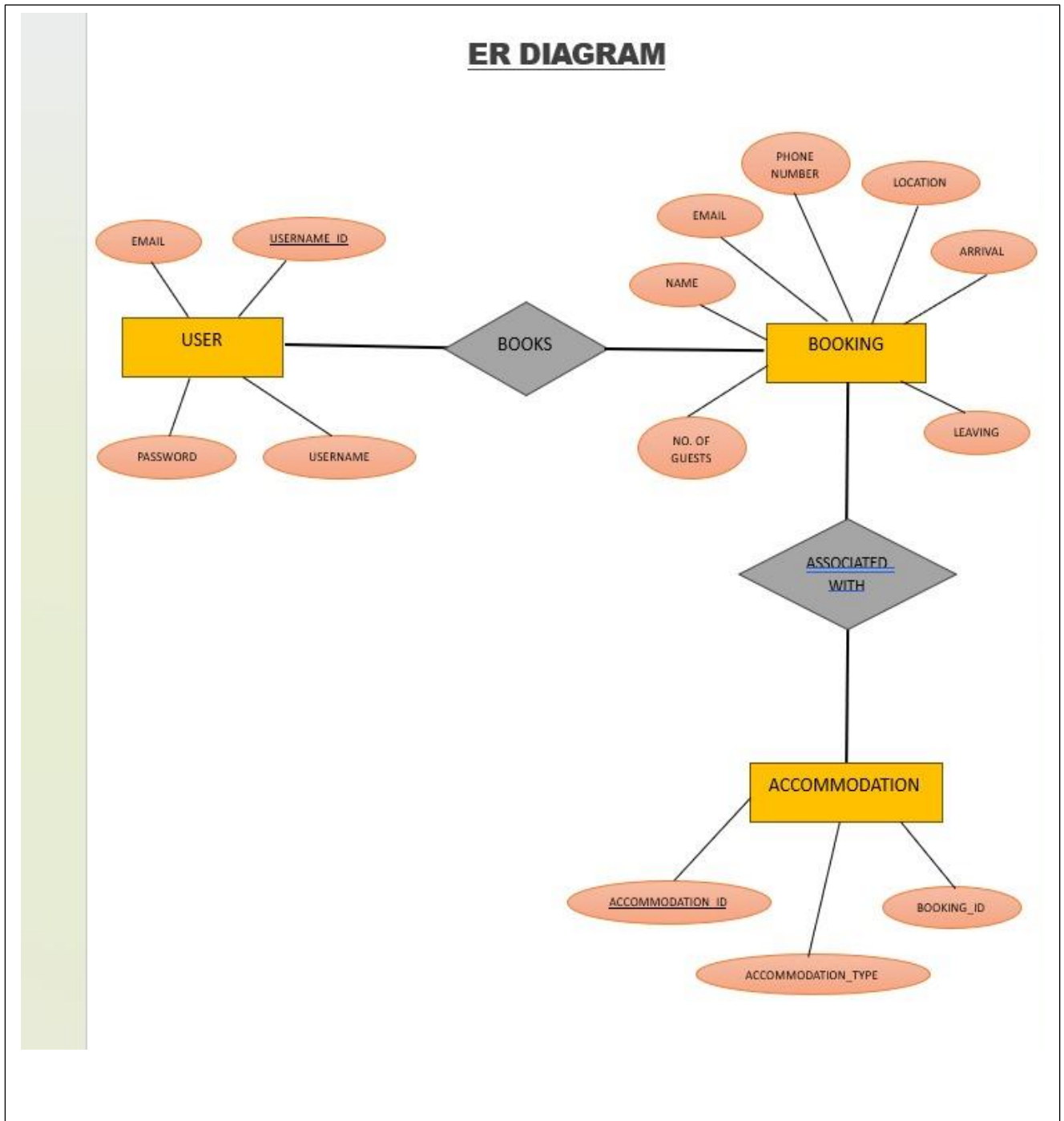
#### 1.1 :High Level Design(HLD)

##### 1.1.1:FLOW CHART



### 1.1.1 : ER DIAGRAM

### 1.1.2



## **1.2 Low Level Design (LLD)**

### **1.1.3 Project Specification**

#### **1. User Registration and Login:**

- **New User Registration:**
  - Users enter personal details (name, email, password).
  - Passwords are encrypted for security.
  - Account details are stored securely in the database.
- **Returning User Login:**
  - Users enter their username/email and password.
  - The system verifies credentials against stored records.
  - Successful login grants access to a personalized dashboard with saved destinations and booking history.
- **Security Features:**
  - Account lockouts after multiple failed login attempts.
  - Email verification during registration to ensure valid user accounts.

#### **2. Destination Search and Filtering:**

- **Search Functionality:**
  - Users can search for destinations by entering keywords (e.g., location, activity type).
- **Filtering Options:**
  - Filters based on location, price, rating, and types of experiences (e.g., adventure, relaxation).
- **Dynamic Search Results:**
  - The system queries the back-end database to display destinations matching user preferences.
  - Users can sort results by price, popularity, and rating.
- **Destination Information:**

- Each destination includes a detailed description, images, pricing, and user ratings.

### **3. Tour Booking:**

- **Selection of Tours:**

- Users select available tours, activities, or accommodations tied to the destination.
- Details such as tour dates, group size, and pricing are displayed.

- **Booking Confirmation:**

- Users provide details such as the number of travelers and any special requests (e.g., accessibility needs).
- Booking details are stored in the database under “Pending Payment” status.

- **Review and Modifications:**

- Users can review and modify the booking before proceeding to payment.
- A reference number is assigned to each booking for tracking.

### **4. Payment Process:**

- **Payment Gateway:**

- Users are redirected to a secure payment gateway to enter payment information (credit card details, billing address).

- **Transaction Authorization:**

- The payment processor checks the validity of the payment and authorizes the transaction.

- **Payment Confirmation:**

- On successful payment, the booking status is updated to "Confirmed."
- Users receive a receipt and booking confirmation notification.

- **Failure Handling:**

- If payment fails, the system prompts the user to retry with a different payment method.

### **5. Customer Review:**



- **Post-Trip Review Submission:**
  - After completing a trip, users can submit reviews for destinations they visited.
  - Reviews include ratings (e.g., 1 to 5 stars), written comments, and photos.
- **Review Display:**
  - Reviews are stored in the database and displayed on destination pages.
  - Future travelers can read reviews to make informed decisions.
- **Review Moderation:**
  - Admins can approve or reject reviews based on guidelines.
  - Only legitimate and appropriate reviews are published.

## **6. Admin Management:**

- **Back-end Dashboard:**
  - Admins access a secure dashboard to manage the platform.
  - They can add or update destination listings, including details, images, and pricing.
- **Booking Management:**
  - Admins monitor all bookings (e.g., Pending Payment, Confirmed).
  - They can track bookings and ensure smooth processing.

### **1.1.3 : Screen-Shorts**



(FRONT PAGE)

## PLACES TO EXPLORE



### North India

Rs.3000-Rs.9000 / Per Person

North India is a land of breathtaking landscapes, rich history, vibrant cultures,



### South India

Rs.2500-Rs.8000 / Per Person

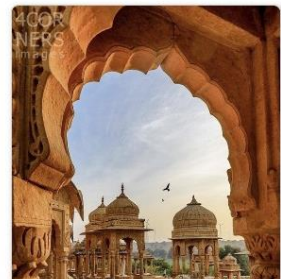
South India: A Symphony of Culture, and Heritage. South India is a treasure trove of



### East India

Rs.2400-Rs.8500 / Per Person

"Embrace the Wilderness and Wonders of East India's Untamed Beauty." East India is



### West India

Rs.3000-Rs.9050 / Per Person

West India is a region of striking contrasts, where modern metropolises meet ancient

(TOURS PAGE)



### Sign Up

Username:

Email:

Password:

Sign Up

Already have an account? [Log in](#)

(SIGN-UP PAGE)

### Book Your Trip!

NAME :	EMAIL :
<input type="text" value="Enter your name"/>	<input type="text" value="Enter your email"/>
PHONE :	ADDRESS :
<input type="text" value="Enter your number"/>	<input type="text" value="Enter your address"/>
WHERE TO:	HOW MANY :
<input type="text" value="Select a location"/>	<input type="text" value="Number of guests"/>
ARRIVALS :	LEAVING :
<input type="text" value="dd/mm/yyyy"/>	<input type="text" value="dd/mm/yyyy"/>
HOTELS :	PAYMENT METHOD :
<input type="text" value="Enter how many bedded you want to stay"/>	<input type="text" value="Select your payment method"/>
<div>Submit</div>	

(BOOKING PAGE)



## CHAPTER – 6

### CODING

#### Demo Code of Index Page:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8" />
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <link rel="stylesheet" href="style.css" />
  <title>Travel Bliss</title>
</head>
<body>
  <section class="nav-bar">
    <div class="logo">Travel Bliss</div>
    <ul class="menu">
      <li><a href="#banner">home</a></li>
      <li><a href="#places">tours</a></li>
      <li><a href="contactus.php">contact us</a></li>
      <li><a href="login.php">login</a></li>
      <li><a href="signup.php">sign up</a></li>
    </ul>
  </div>
</section>
<section class="banner" id="banner">
  <div class="banner-text-item">
    <div class="banner-heading">
      <h1>Incredible India!</h1>
      <h3>Explore India From Kashmir to Kannyakumari</h3>
    </div>
  </div>
</section>
<!--=====Services=====-->
<section class="services">
  <div class="service-item">
    
    <h2>100% Trusted Tour Agency</h2>
  </div>

  <div class="service-item">
    
    <h2>98% Our Travelers are Happy</h2>
  </div>
</section>
<!--=====Places=====-->
<section id="places" class="places">
  <div class="places-text">
    <h2>PLACES TO EXPLORE</h2>
  </div>
</section>
```

```

<div class="cards">
  <div class="card">
    <div class="zoom-img">
      <div class="img-card">
        
      </div>
    </div>
    <div class="text">
      <h2><a href="north.php"> North India</a> </h2>
      <p class="cost">Rs.3000-Rs.9000 / Per Person</p>
      <p class="para">North India is a land of breathtaking landscapes, rich history, vibrant
cultures, and spiritual experiences. From the snow-capped peaks of the Himalayas to the golden sands
of the Thar Desert, North India offers an array of travel experiences for every kind of traveler.</p>
    </div>
  </div>
  <div class="card">
    <div class="zoom-img">
      <div class="img-card">
        
      </div>
    </div>
    <div class="text">
      <h2><a href="south.php"> South India</a> </h2>
      <p class="cost">Rs.2500-Rs.8000 / Per Person</p>
      <p class="para">South India: A Symphony of Culture, and Heritage.South India is a
treasure trove of culture, and natural beauty. From the tranquil backwaters of Kerala to the majestic
temples of Tamil Nadu, and the vibrant beaches of Goa, South India offers a range of experiences for
every traveler. </p>
    </div>
  </div>
  <div class="card">
    <div class="zoom-img">
      <div class="img-card">
        
      </div>
    </div>
    <div class="text">
      <h2><a href="east.php">East India</a> </h2>
      <p class="cost">Rs.2400-Rs.8500 / Per Person</p>
      <p class="para">"Embrace the Wilderness and Wonders of East India's Untamed
Beauty."East India is a captivating blend of ancient traditions, vibrant cultures, and breathtaking views.
From the dense mangrove forests of the Sundarbans to the spiritual heart of Bodh Gaya.</p>
    </div>
  </div>
  <div class="card">
    <div class="zoom-img">
      <div class="img-card">
        
      </div>
    </div>
  </div>

```



```

    <div class="text">
      <h2><a href="west.php">West India</a></h2>
      <p class="cost">Rs.3000-Rs.9050 / Per Person</p>
      <p class="para"> West India is a region of striking contrasts, where modern metropolises
meet ancient history, and arid deserts coexist with lush forests and stunning coastlines. From the
bustling streets of Mumbai to the serene beaches of Goa, and the majestic forts of Rajasthan to the
wildlife sanctuaries.</p>
    </div>
  </div>
</div>
</section>
<!--=====About Us=====-->
<section class="about">
  <div class="about-img">
    
  </div>
  <div class="about-text">
    <small>ABOUT OUR COMPANY</small>
    <h2>We are Travel Bliss Ravels Support Company</h2>
    <p>At Travel Bliss Company, we believe that travel should be a source of joy and inspiration.
Our team of experienced professionals brings a wealth of knowledge and passion to every travel
arrangement, ensuring that your experience is not only seamless but also extraordinary.
We invite you to explore our website and discover the possibilities for your next adventure. Let us help
you create memories that will last a lifetime. Welcome to a world of travel bliss!</p>
    <label><input type="checkbox" checked>Exceptional Service</label>
    <label><input type="checkbox" checked>Guided Tours and Activities</label>
    <label><input type="checkbox" checked>Local Insights</label>
    <label><input type="checkbox" checked>Sustainability</label>
    <a href="#">ABOUT US</a>
  </div>
</section>
<!--=====Footer=====-->
<div class="footer">
  <div class="links">
    <h3>Quick Links</h3>
    <ul>
      <li>Tours</li>
      <ul>
        <li><a href="north.php"> North India</a></li>
        <li><a href="south.php"> South India</a></li>
        <li><a href="east.php"> East India</a></li>
        <li><a href="west.php"> West India</a></li>
      </ul>
      <li><a href="login.php"> Login page</a></li>
      <li><a href="signup.php"> Signup page</a></li>
      <li>Contact Us (9876543210)</li>
    </ul>
  </div>
</div>
</body>
</html>

```



# CHAPTER – 7

## TESTING

Here's a detailed overview of the types of testing essential for ensuring Travel Bliss operates smoothly and meets all functional, security, and performance standards.

### 1. Unit Testing:

- **Purpose:** Verify that individual functions and components work correctly in isolation.
- **Examples:**
  - Test user registration function for correct validation, insertion, and handling of duplicate emails.
  - Validate destination filtering by checking if it correctly narrows down results based on user-selected criteria (e.g., region or activity).
  - Test booking creation to ensure correct data storage, especially with date and availability checks.

### 2. Integration Testing:

- **Purpose:** Test interactions between components to ensure they work together as expected.
- **Examples:**
  - Ensure user registration leads to a fully set up profile, allowing subsequent login and access to personalized features.
  - Test booking and payment processes together, confirming that payment updates booking status and sends confirmation to the user.
  - Check search and filtering to ensure that back-end data is correctly retrieved and displayed in the front-end.

### 3. Functional Testing:

- **Purpose:** Verify that the platform meets all specified functional requirements.
- **Examples:**
  - Test search functionality to ensure it returns correct destinations and responds well to unexpected queries.
  - Verify tour booking from start to finish, ensuring the correct fields are required and bookings are confirmed properly.

- Ensure login and logout work consistently and maintain user session integrity.

#### **4. End-to-End (E2E) Testing:**

- **Purpose:** Simulate real user scenarios to test the entire workflow.
- **Examples:**
  - Test a user journey from registration, logging in, browsing destinations, adding tours to the cart, booking, and completing payment.
  - Verify that a user can search, book, and review destinations smoothly, with each page loading expected content.
  - Test booking management functions, such as modification or cancellation of bookings, to ensure they are processed correctly.

#### **5. Performance Testing:**

- **Purpose:** Assess the system's responsiveness and stability under different levels of load.
- **Examples:**
  - Simulate multiple simultaneous bookings to test server capacity and response time.
  - Test page loading times for destination listings and booking pages under normal and peak usage.
  - Analyze performance with a large number of destinations, ensuring that search and filter operations remain efficient.

#### **6. Security Testing:**

- **Purpose:** Ensure user data security and compliance with best practices.
- **Examples:**
  - Check for SQL injection vulnerabilities in user inputs, especially for login, registration, and search features.
  - Test encryption for password storage, ensuring that passwords are stored securely and not in plain-text.
  - Validate secure payment processing by testing encryption on transaction data and verifying secure connections (HTTPS).

#### **7. User Interface (UI) Testing:**

- **Purpose:** Validate visual elements and user interaction to ensure a seamless experience.

- **Examples:**

- Test that the responsive design adapts correctly across various devices (desktop, tablet, mobile).
- Check all interactive elements (buttons, forms, navigation links) to ensure they respond correctly and align with the design.
- Ensure consistency in fonts, colors, and images, and verify that page layout remains intact when re-sizing the window.

## **8. Database Testing:**

- **Purpose:** Confirm the accuracy and consistency of data transactions with the database.

- **Examples:**

- Test that user and booking data are correctly saved, retrieved, and updated in the database without duplicates.
- Verify that transaction data (such as payments and cancellations) are accurately reflected in the database and linked to user records.
- Ensure data integrity by testing that deleting a user removes all related bookings or personal information.

## **CHAPTER – 8**

### **CONCLUSION**

In conclusion, Travel Bliss stands as a thoughtfully crafted, comprehensive platform designed to revolutionize how users approach travel planning. The platform merges advanced web technologies like HTML, CSS, JavaScript, PHP, and MySQL to create a seamless user experience that guides travelers through every step of their journey—from initial discovery to booking and post-travel feedback. Each feature, from user registration and secure payment gateways to interactive destination listings and personalized recommendations, has been designed with both functionality and user satisfaction in mind.

The platform is not only intuitive and easy to navigate but also adaptable to various devices, making it accessible for travelers at home or on the go. The back-end is fortified with secure database management to protect user data and facilitate quick, reliable booking and payment processes, ensuring both safety and ease of use. The inclusion of customer reviews and ratings adds a valuable, community-driven component, allowing users to make informed decisions based on peer feedback, which enhances trust and engagement.

Administrators benefit from a structured back-end interface that simplifies content and booking management, enabling real-time updates and efficient handling of user inquiries. As Travel Bliss evolves, there are opportunities for expanding the platform's offerings with additional destinations, loyalty programs, and immersive local experiences, further enriching the travel experience.

Overall, Travel Bliss aims to not only be a tool for booking travel but also a digital companion for adventure, exploration, and discovery. With its scalable architecture, user-focused design, and commitment to continuous improvement, Travel Bliss is poised to become an indispensable resource in the modern travel industry, empowering users to explore the world with convenience, confidence, and inspiration.

Travel Bliss is an innovative platform designed to simplify and enhance the travel planning experience for users of all types, from solo adventurers to families seeking their next vacation. By offering a seamless user interface combined with powerful back-end management tools, it ensures that users can easily discover destinations, book tours, and make secure payments—all from a single, unified platform. The integration of features like personalized recommendations, customer reviews, and real-time booking updates enriches the overall experience, helping travelers make informed decisions while

engaging with the platform. The system's secure login, payment processing, and review moderation ensure both user safety and the quality of services offered. For administrators, the platform provides a comprehensive dashboard for managing listings, bookings, and user interactions, making it easy to maintain a high level of service. With future expansion plans in place, including loyalty programs and enhanced local experiences, Travel Bliss aims to become a comprehensive, reliable resource for travelers, offering convenience, reliability, and a personalized journey from start to finish. The project's success not only demonstrates its ability to cater to current market demands but also positions it for long-term growth as it adapts to evolving user needs and industry trends.

## REFERENCES

**Youtube:-** <https://youtu.be/34MBVXsDOtA?si=rsAHe4pPNyPSl0a9>

**Code Outline:-** <https://github.com/HiruniPerera/Travel-website-Design>