WANDERLUST - THE TRAVEL PLANNER

Real Time Project report

Submitted in partial fulfilment of the requirement for the award of the Degree of

Bachelor of Technology (B. Tech)

in

Computer Science and Engineering (AI&ML)

By

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ACE ENGINEERING COLLEGE

AN AUTONOMOUS INSTITUTION

(NBA Accredited B.Tech Courses: ECE, EEE & CSE)

(Affiliated to Jawaharlal Nehru Technological University, Hyderabad, Telangana)

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COMPUTER SCIENCE AND ENGINEERING (AI&ML)

CERTIFICATE

This is to certify that the Real Time Project work entitled "**WANDERLUST - THE TRAVEL PLANNER**" is being submitted by **P.Varshitha(22AG1A66H5), K.Hyndhavi(22AG1A66G1), K.DeekshithaReddy(22AG1A66G0), M.Shivani (22AG1A66G6),** in partial fulfilment for the award of Degree of **BACHELOR OF TECHNOLOGY** in **COMPUTER SCIENCE ENGINEERING (AI&ML)** to the Jawaharlal Nehru Technological University, Hyderabad during the academic year 2023-24 is a record of bonafide work carried out by them under our guidance and supervision.

The results embodied in this project have not been submitted by the student to any other University or Institution for the award of any Degree or Diploma.

Internal Guide   **Head of the Department**

Mrs K. Swetha Sailaja   Dr S. Kavitha

Assistant Professor   Assoc. Professor and

Dept. of CSE(AI&ML)   Head, Dept. of CSE(AI&ML)

ACKNOWLEDGEMENT

We would like to express our gratitude to all the people behind the screen who have helped us transform an idea into a real time application.

We would like to express our heart-felt gratitude to our parents without whom we would not have been privileged to achieve and fulfil our dreams.

A special thanks to our General Secretary, **Prof. Y. V. Gopala Krishna Murthy**, for having founded such an esteemed institution. We are also grateful to our beloved principal, **Dr. B. L. RAJU** for permitting us to carry out this project.

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ABSTRACT

The Wanderlust is a web-based intelligent system for facilitating the travel planning process, which is implemented as a mix of several travel-related services' APIs.

Unlike other similar applications which essentially work as calendaring programs, our system is unique in that it integrates the information and functions needed for travel planning.

Providing such features as checking hotel availability and calculating optimum routes between user-specified locations at various travel destinations, and offering suggestions for sightseeing, times and locations and personal preferences for dining, relaxation and sleep.

Furthermore, these services are not limited to a particular city but are offered for any city around the world for which such information exists within the databases of the services included in the mashup.

INDEX

LIST OF FIGURES

LIST OF NOTATIONS / ABBREVATIONS

Abbreviation		Full Form
UX	-	User Experience
UI	-	User Interface
CSS	-	Cascading Style Sheet
CTA	-	Call-To-Action
RAM	-	Random Access Memory
SSD	-	Solid State Drive
HTML	-	Hypertext Markup Language
IEEE	-	Institute of Electrical and Electronics Engineers
JSTOR	-	Journal Storage
AMD	-	Advanced Micro Devices

CHAPTER 1
INTRODUCTION

The purpose of website is established fact that Internet users are increasing today. One of the main purposes of the website is to facilitate the offline customer online because customers cannot spend their precious time in markets trying to find out the best deal. India is a country where in a few days holiday, you can enjoy a lot. The problem is that although having many websites but they offer different kind of services. The customers are enjoying a lot but there is a lack of relationship between travel agency and customers and hence establishing that relationship by caring and serving all customers in the same manner that wish to be served.

We, as travellers, want to see destinations that make us pack our suitcases and buy the tickets. Whether you're dreaming of an adventurous trek, or a cultural immersion, we've got you covered.

Expert Insights: Benefit from travel tips, destination guides, and reviews from seasoned travellers. Our platform is designed to make your travel planning effortless and enjoyable, from finding the best destinations to booking flights, accommodations, and activities.

Exclusive Deals: Enjoy exclusive discounts and offers on flights, hotels, tours, and more. Start your adventure today with Wanderlust and turn your travel dreams into reality.

Explore, plan, and embark on your next great journey with confidence!

1.1. PROBLEM DEFINITION

The purpose of website is established fact that Internet users are increasing today. One of the main purposes of the website is to facilitate the offline customer online because customers cannot spend their precious time in markets trying to find out the best deal. India is a country where in a few days holiday, you can enjoy a lot. The problem is that although having many websites but they offer different kind of services. The customers are enjoying a lot but there is a lack of relationship between travel agency and customers and hence

establishing that relationship by caring and serving all customers in the same manner that wish to be served.

1.2. KEY OBJECTIVES

1.Enhanced User Experience (UX): The primary goal is to create a user-centric design that improves usability, accessibility, and overall satisfaction.

2.Responsive Design: Ensuring the website functions flawlessly across various devices, including desktops, tablets, and mobile phones.

3.Scalable and Maintainable Code: The project emphasizes clean, modular, and maintainable code using CSS custom properties and reusable classes.

4.Visual Appeal: The website aims to be visually engaging through a consistent color palette, typography, and imagery.

1.3. KEY FEATURES AND COMPONENTS

1.Custom Properties for Theming: The stylesheet uses CSS custom properties to define a flexible and scalable design system.

2.Component-Specific Styles: Sections like the header, hero, tour search, and popular destinations have tailored styles for their respective components.

3.Footer and CTA Styles: The footer and call-to-action (CTA) sections are styled to provide a consistent end-of-page experience.

4.Media Queries: The stylesheet includes media queries to ensure the design is responsive and adapts to different screen sizes.

5.Interactive Elements: Buttons and links have hover and focus states to enhance the user experience.

Utility Classes for Layout and Structure: Classes like .overlay and .go-top provide essential functionalities such as overlay effects and "back to top" buttons.

The search results indicate that this travel planner website is a comprehensive solution that combines flexibility, maintainability, and responsiveness, leveraging modern web development techniques and best practices.

1.4.   SCOPE

Project is to develop a system that automates the processes and activities of a travel and the purpose is to design a system using which one can perform all operations related to traveling. Customers can decide about places they want to visit and make bookings online for travel and accommodation. Customer can view complete travel information with Google Maps, Hotel facilities, Restaurant facilities, vehicle services through online. Feedback and review helps to customer to visit particular location. Photo gallery and video gallery of the location can be uploaded. Customer can search hotels by entering location and hotel type.

1.5.   OBJECTIVE

Application is developed to provide best travelling services to the customers and travel agents.

Tours and travel management system to provide a search platform where a tourist can find their tour places according to their choices

Agency will be able to make payment on their ease of use either by online or by offline system. Tourist will get their treatment lowest cost and they can afford tour.

CHAPTER 2

LITERATURE REVIEW

2.1. OVERVIEW OF TRAVEL PLANNER:

This section delves into existing literature and studies related to travel planner applications. It discusses the evolution of such applications, user preferences, critical features, and the impact of technology advancements on travel planning. The review explores user feedback, algorithmic approaches, and identifies gaps or areas for improvement in current applications. Expanding on the literature review, we can explore specific aspects

1. User Experience in Travel Planner Apps:

Investigate how user experience design principles influence the effectiveness of travel planner applications. Examine studies that analyse user satisfaction, ease of use, and the impact of interface design on overall engagement.

2. Mobile Technology Trends:

Explore recent advancements in mobile technology and their integration into travel planner apps. Assess how features like augmented reality, geolocation services, or voice commands enhance the user experience and contribute to the effectiveness of travel planning.

3. Personalization and Recommendation Systems:

Investigate the role of personalization in travel planners, studying recommendation algorithms and their effectiveness. Evaluate how tailored suggestions based on user preferences and behaviour contribute to better travel planning experiences.

4. Social Influence and Collaborative Planning:

Explore studies on the impact of social media integration and collaborative planning features in travel applications. Analyse how sharing travel plans, recommendations, and

experiences among social circles influence decision-making and enhance the overall planning process.

5. Accessibility and Inclusivity:

Investigate the accessibility features implemented in travel planner applications to ensure inclusivity for users with diverse needs. Explore studies that discuss how inclusive design practices improve the usability of travel planners for a broader audience.

6. Data Security and Privacy Concerns:

Address the growing concerns related to data security and privacy in travel planning applications. Examine literature discussing best practices, legal considerations, and user perceptions regarding the handling of personal information within these apps.

2.2. Methodology

1.Search for Relevant Literature: Use academic databases such as Google Scholar, IEEE Xplore, and JSTOR.Look for articles, conference papers, and industry reports focused on frontend development, UX/UI design, and mobile integration.

2. Review and Analyse Literature: Summarize key findings from each source. Identify trends, patterns, and gaps in existing research.Critically evaluate the strengths and weaknesses of different design approaches.

3.Organize Information: Create a structured document or database to categorize and organize the literature. Use reference management tools like Mendeley, Zotero, or EndNote for citations.

4.Synthesize Insights: Combine insights from various sources to form a comprehensive understanding. Highlight innovative solutions and best practices.

CHAPTER 3
SYSTEM REQUIREMENTS

3.1 Hardware Requirements*:*

For development, you need a computer with sufficient resources to handle modern web development tools:

1.Processor (CPU): A multi-core processor (Intel i5 or AMD equivalent and above) for efficient multitasking.

2.Memory (RAM): At least 8GB of RAM, though 16GB is recommended for smoother performance when running development tools and browsers simultaneously.

3.Storage:SSD (Solid State Drive) for faster read/write speeds, preferably with at least 256GB of available space.Additional space may be needed for storing project files, assets, and tools.

4.Graphics: Integrated graphics are generally sufficient, but a dedicated GPU can help with tasks like rendering and design.

5.Monitor: A good quality monitor with at least 1080p resolution. Dual monitors can enhance productivity.

6.Internet Connection: A reliable and fast internet connection for accessing online resources, libraries, and collaboration tools.

3.2 Software Requirements

Code Editor / Integrated Development Environment (IDE):

1.Visual Studio Code: Popular and highly extensible.

Sublime Text: Lightweight and fast.

Atom: Highly customizable.

2.Version Control:

Git: Essential for version control and collaboration.

GitHub, GitLab, or Bitbucket: Platforms for hosting Git repositories.

3.Browsers:

Google Chrome: For development and debugging.

Mozilla Firefox: Another good option for testing.

Microsoft Edge: For compatibility checks.

Safari: For macOS/iOS-specific testing.

CHAPTER 4
SYSTEM ARCHITECTURE

4.1 PROJECT DESCRIPTION

The purpose of website is established fact that Internet users are increasing today. One of the main purposes of the website is to facilitate the offline customer online because customers cannot spend their precious time in markets trying to find out the best deal. India is a country where in a few days holiday, you can enjoy a lot. The problem is that although having many websites but they offer different kind of services. The customers are enjoying a lot but there is a lack of relationship between travel agency and customers and hence establishing that relationship by caring and serving all customers in the same manner that wish to be served.

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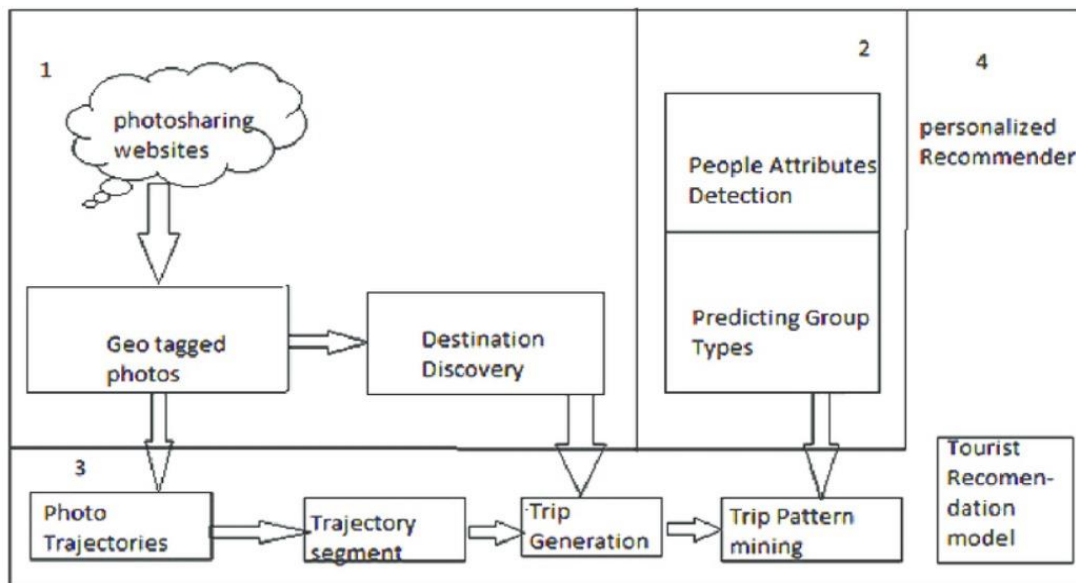
Fig.4.1 system architecture

4.2 MODULES

1. Navigation Module (Navbar)

Purpose: Provides easy access to different sections of the website.

Components:

- Logo and brand name.
- Menu items linking to Home, Destinations, Packages, Contact Us, and Book Now pages.
- Responsive design to adapt to various screen sizes (e.g., collapsible menu for mobile devices).

2. Destinations Module

Purpose: Showcases various travel destinations that users can explore.

Components:

- A list or grid of destinations with images, names, and short descriptions.
- Detailed destination pages with more information, photos, and travel tips.

3. Packages Module

Purpose: Highlights travel packages and deals available for booking.

Components:

- A list of travel packages with brief overviews, including price, duration, and main attractions.
- Detailed pages for each package with itineraries, inclusions, exclusions, and user reviews.
- Special deals or promotions section to attract users with limited-time offers.

4. ContactUs Module

subject, Purpose: Provides users with a way to contact the website or business for inquiries, support, or feedback.

Components:

- Contact form with fields for name, email, and message.
- Contact information, including phone numbers, email addresses, and physical addresses.
- A map showing the business location (if applicable).
- Social media links and possibly a live chat feature for instant support.

5. Book Now Module

Purpose: Facilitates the booking process for users planning their trips.

Components:

- Booking form with fields for destination, travel dates, number of travellers, and personal details.
- Integration with payment gateways for secure online payments.
- Confirmation and summary of the booking, including booking reference number and travel details.
- Options to manage bookings, such as view, modify, or cancel.

4.3 ALGORITHM

1.Form Validation

Validate user inputs for fields like destination, travel dates, number of travellers using JavaScript. Display error messages if required fields are empty or contain invalid data.

2.Responsive Design

Use CSS techniques like Flexbox and Grid to create a responsive layout that adapts to different screen sizes. Implement media queries to adjust the styling and layout for mobile, tablet, and desktop views.

3.Smooth Scrolling

Use JavaScript to implement smooth scrolling behaviour when users click on navigation links. Highlight the active navigation link based on the user's scroll position on the page.

4.Animations and Interactions

Implement interactive features like expanding/collapsing sections, image galleries, and form interactions.

CHAPTER 5

SYSTEM DESIGN

5.1 Flow Chart

Select Destination: Choose the location for the trip, considering factors like budget, interests, and travel dates.

Choose Travel Dates: Determine the dates for the trip, accounting for work/school schedules and peak travel times.

Book Flights: Research airline options, compare prices, and book the most convenient and cost-effective flights.

Book Accommodations: Investigate lodging options like hotels, vacation rentals, or hostels, and reserve the most suitable accommodations.

Book Activities: Identify and book sightseeing tours, outdoor adventures, cultural experiences, and other activities at the destination.

Pack Bags: Prepare and pack all necessary items for the trip.

Enjoy the Trip: Experience the destination and partake in the planned activities and sights.
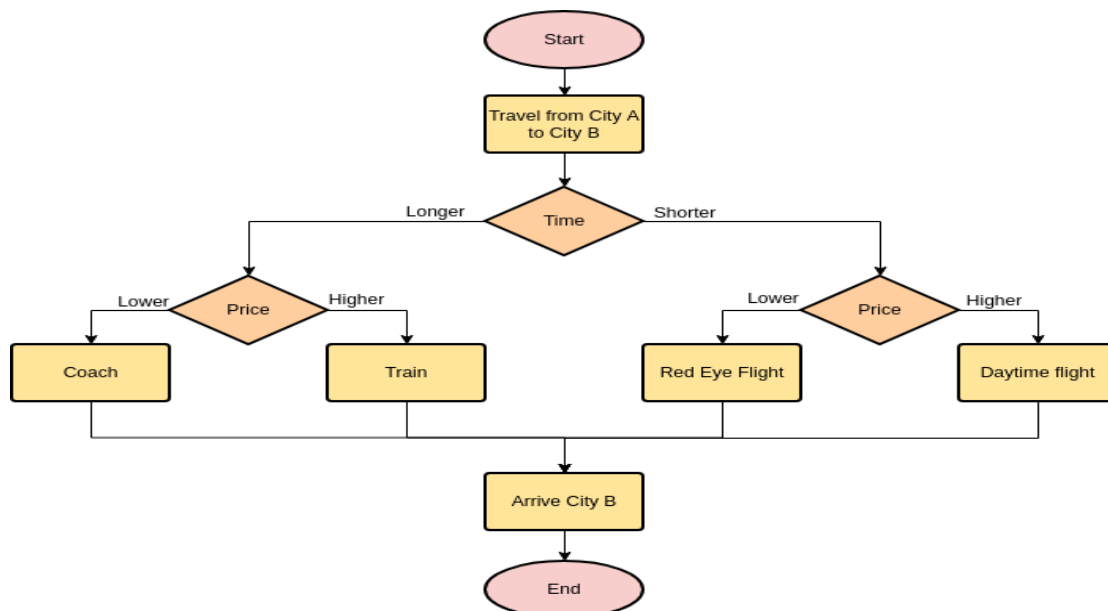
Fig. 5.1 Flow Chart for travel planner

5.2 Class Diagram

Travel Management System Class Diagram

The main classes are Package, Transportation, Booking, Hotel, Tour, and Customers. Each class has attributes like id, name, type, description, etc. and methods like add, edit, delete, update, save, and search. The class diagram shows the relationships between these main classes.

The main classes are Travel Agency, Customer, Cabs, Bookings, Charges, and Payments. Similar to the previous diagram, each class has attributes and methods for managing the various aspects of a travel management system.
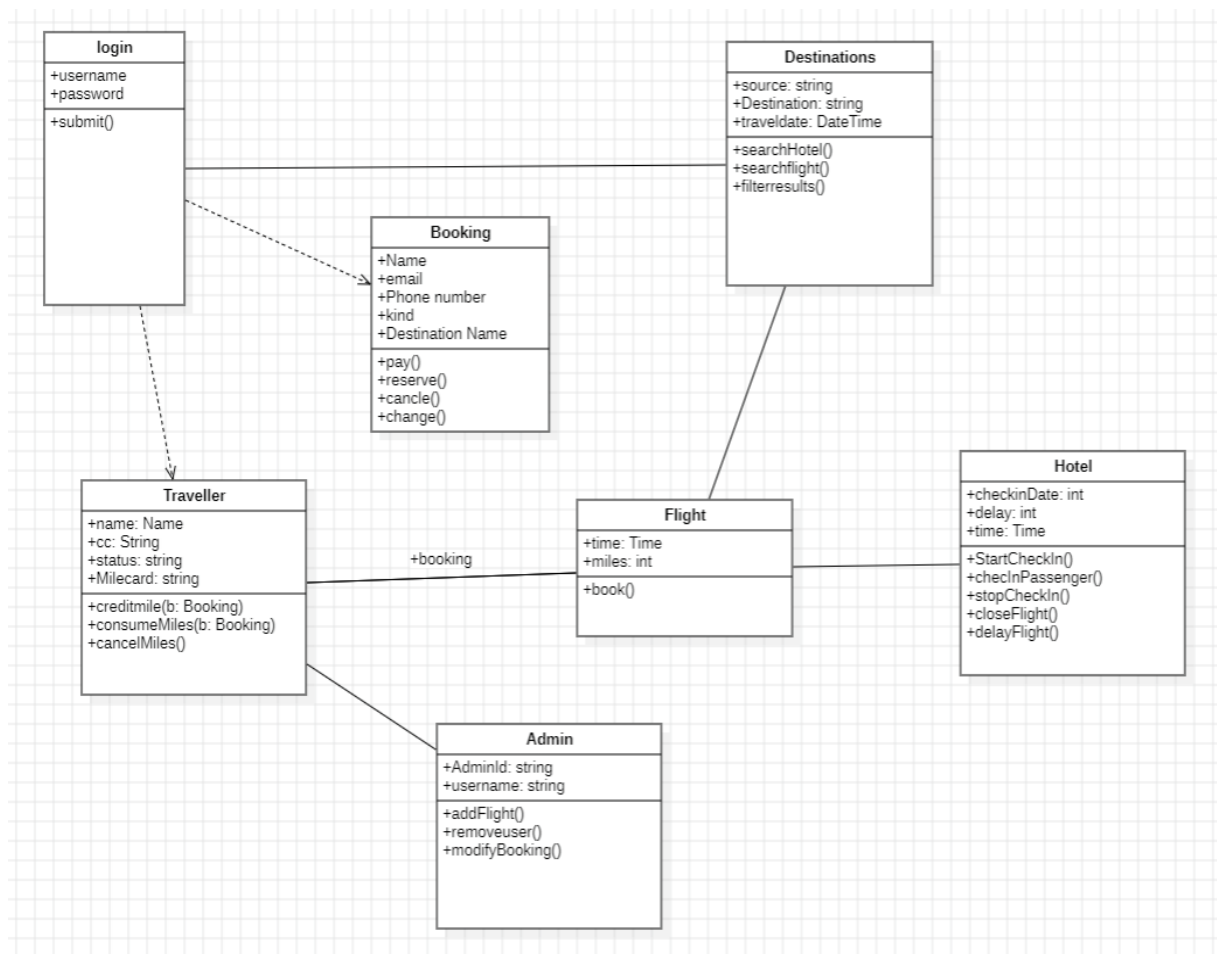
Fig. 5.2 Class Diagram

5.3 **Use Case Diagram**

View Destination Details

Users can search for and view detailed information about various travel destinations, including local attractions, weather, and travel advisories.

Book Accommodations

Users can search for and book lodging for their trips, with the system providing a secure and seamless booking process.

Plan Itinerary

Users can create a detailed itinerary for their trip, adding activities, attractions, and accommodations. The system should allow users to customize their itinerary and make changes as needed.

View Itinerary

Users can view their trip itinerary and make changes if necessary. The system should provide easy access to the itinerary and allow users to print or export it to a mobile device.

Responsive Design

The travel planner website should be fully responsive, allowing users to access and use the system on a variety of devices, from desktops to mobile phones.

Contact Support

Users should be able to directly contact the travel planner website's support team if they have any issues or questions.
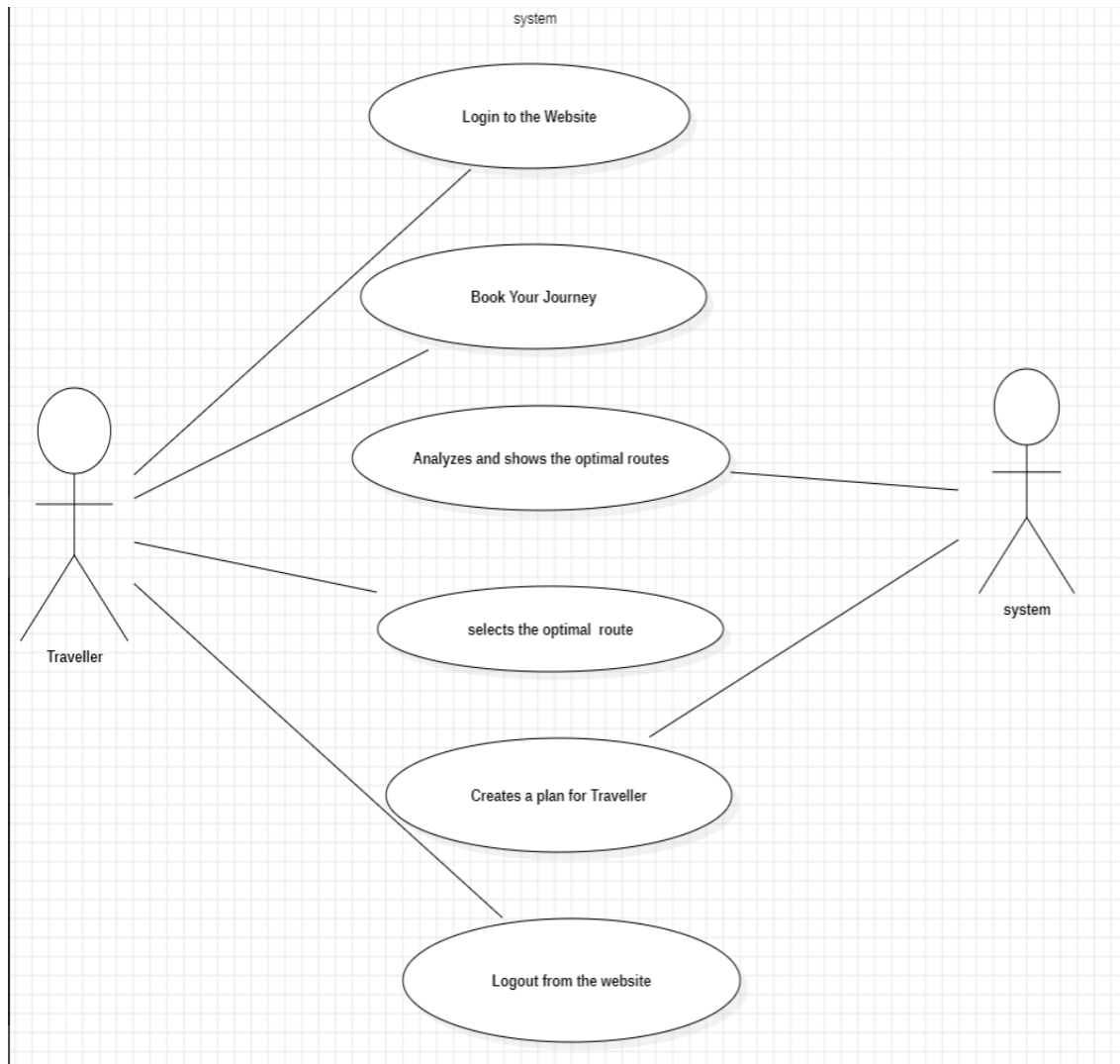
Fig. 5.3 Use Case Diagram

5.4 Sequence Diagram

When a traveller visits a travel planner website, they begin by selecting their travel destination and dates. They then search for available travel options, initiating a series of actions by the travel planner website. The website retrieves travel options from its database and displays the available choices to the traveller. The traveller can then select their preferred travel option.

Next, the traveller provides their personal information and payment details. The travel planner website processes the booking and payment, confirms the booking with the traveller, and sends the booking details to the relevant transportation provider, such as an airline or hotel. The transportation provider then confirms the booking with the travel planner website.

The travel planner website notifies the traveller of the confirmed booking. The traveller receives the confirmation and has the option to modify or cancel the booking if necessary.
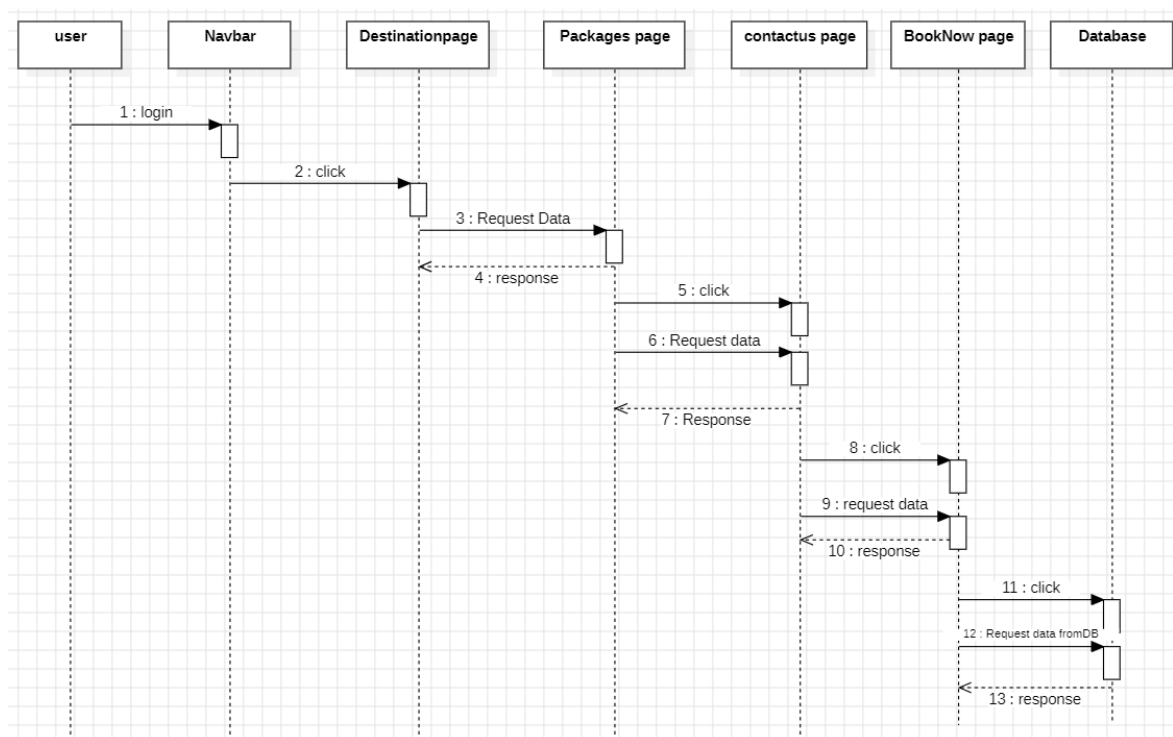
Fig. 5.4 Sequence Diagram

5.5 Activity Diagram

1. The user opens the travel planner website.

2. If the user is logged in, their profile is displayed. If not, a login form is shown.

3. The user enters their login credentials, which are validated.

4. Once logged in, the user can view travel planning options.

5. The user selects a travel destination, and available packages are displayed.

6. The user chooses a travel package and views its details.

7. The user books the selected package, and a booking confirmation is displayed.

8. The user provides feedback, and a feedback form is shown.

9. The user submits the feedback, which is stored in the system.

10. A thank you message is displayed, and the process ends.
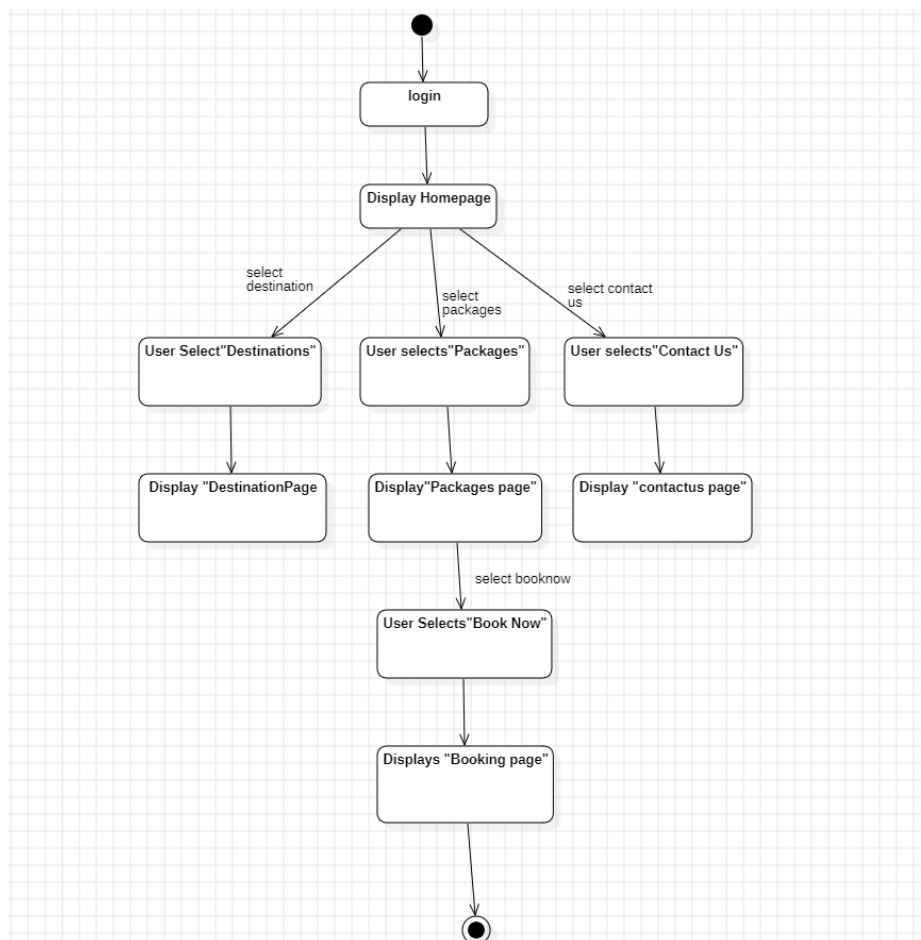
Fig. 5.5 Activity Diagram

CHAPTER 6

IMPLEMENTATION

Index. html:

```
<html lang="en">

<head>

<title>travel planner</title>

</head>

<!--

  - favicon

-->

<link    rel="icon"href="https://cdn-icons-png.flaticon.com/128/2200/2200326.png"
type="image/png">

<!--

  - custom css link

-->

<link rel="stylesheet" href="style.css">

<!--

  - #HEADER

-->

<header class="header" data-header>

<div class="overlay" data-overlay></div>

<div class="header-top">

<div class="container">
```

```html
<a href="tel:+01123456790" class="helpline-box">

<div class="icon-box">

</div>

<div class="wrapper">

<p class="helpline-title">For Further Inquires :</p>

<p class="helpline-number">+912436789102</p>

</div>

</a>

<div class="header-btn-group">

<button style="position: absolute; right: 7%;" class="search-btn" aria-label="Search">

<i class="fas fa-search">Search</i>

</button>

</div>

</div>

</div>

<div class="header-bottom">

<div class="container">

<ul class="social-list">

<li>

<a href="#" class="social-link">

</a>

</li>

<li>

<a href="#" class="social-link">
```

```
</a>

</li>

<li>

<a href="#" class="social-link">

</a>

</li>

</ul>

<nav class="navbar" data-navbar>

<div class="navbar-top">

</div>

<ul class="navbar-list">

<li>

<a href="#home" class="navbar-link" data-nav-link>home</a>

</li>

<li>

<a href="#" class="navbar-link" data-nav-link>about us</a>

</li>

<li>

<a href="#destination" class="navbar-link" data-nav-link>destination</a>

</li>

<li>

<a href="#package" class="navbar-link" data-nav-link>packages</a>

</li>

<li>
```

```
<a href="#gallery" class="navbar-link" data-nav-link>gallery</a>

</li>

<li>

<a href="#contact" class="navbar-link" data-nav-link>contact us</a>

</li>

</ul>

</nav>

</div>

</div>

</header>

<main>

<article>

<!--

    - #HERO

  -->

<section class="hero" id="home">

<div class="container">

<h2 class="h1 hero-title">Journey to explore world</h2>

<p class="hero-text">
```

Travel takes us out of our comfort zones and inspires us to see, taste and try new things.

Once a year, go someplace you've never been before.

```
</p>

<div class="btn-group">
```

```
<button class="btnbtn-secondary">Learn more</button>

<a href="booknow.html" class="btnbtn-secondary">Book now</a>

</div>

<!--<a href="booknow.html" class="button">Book now</a>-->

</div>

</section>

<!--

   - #TOUR SEARCH

  -->

<section class="tour-search">

<div class="form-container">

<h1>Search Destination*</h1>

<input type="text" placeholder="Enter Destination"/>

<h1>Pax Number*</h1>

<input type="number" placeholder="No.of people"/>

<h1>Checkin Date*</h1>

<input type="date" placeholder="DD/MM/YYYY"/>

<h1>Checkout Date*</h1>

<input type="date" placeholder="DD/MM/YYYY"/>

<button>INQUIRE NOW</button>


<figure class="card-banner">

<img    decoding="async"
src="https://encryptedtbn0.gstatic.com/images?q=tbn:ANd9GcTirUTtNtqwRLNcM3q4JzP
JuKZqZSlqkt9D_A&s" alt="seven wonders" loading="lazy">
```
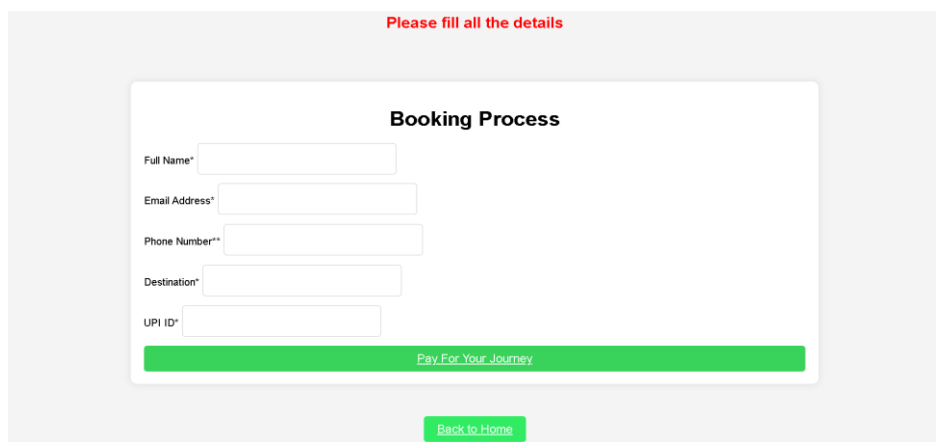
```
</figure>

<div class="card-content">

<h3 class="h3 card-title">The iconic 7-wonders</h3>

<p class="card-text">        The Colosseum in Italy, Petra in Jordan, ChichénItzá in
Mexico, Christ the Redeemer in Brazil, Machu Picchu in Peru, Taj Mahal in India and The
Great Wall of China.

</p>

<ul class="card-meta-list">

<li class="card-meta-item">

<div class="meta-box">

<p class="text">14D/13N</p>

</div>

</li>

<li class="card-meta-item">

<div class="meta-box">

<p class="text">persons=8</p>

</div>

</li>

<li class="card-meta-item">

<div class="meta-box">

<p class="text">The Globe</p>

</div>

</li>

</ul></div>

<div class="card-price">
```

CHAPTER 7
TESTING

When testing a travel planner website, key aspects to consider include:

7.1. Functionality Testing

• Ensure users can successfully book flights, hotels, transportation, and other travel services without issues

• Verify the accuracy and timeliness of travel information, schedules, and availability

• Test the payment process to ensure it is secure and user-friendly

7.2. Usability and User Experience Testing

• Evaluate the website's navigation, information architecture, and overall ease of use.

• Assess the quality of the user interface, including layout, visual design, and accessibility.

• Conduct usability testing with real users to identify pain points and areas for improvement.

7.3. Performance Testing
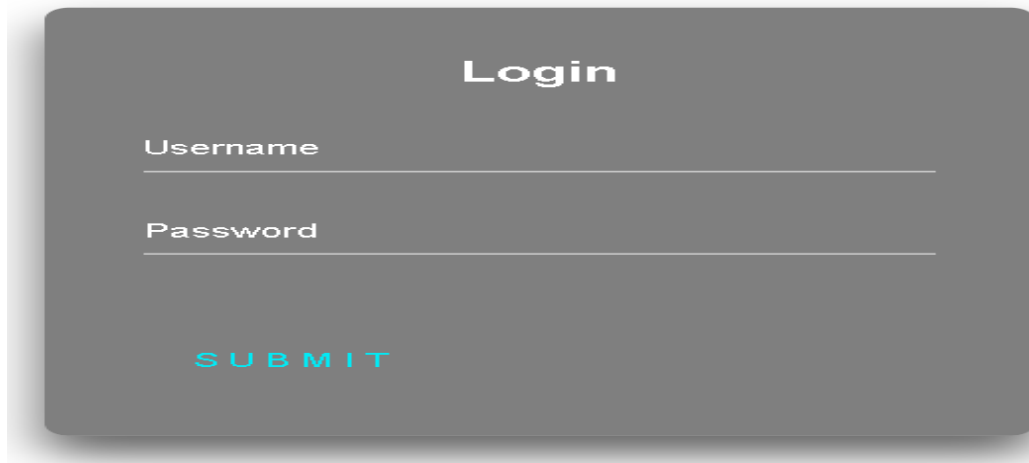
• Ensure the website can handle high traffic and loads without crashing or slowing down

• Test the website's speed and responsiveness across different devices and browsers

7.4. Security Testing

• Verify the website's data encryption and protection of sensitive user information

• Test for vulnerabilities, such as cross-site scripting (XSS) and SQL injection

CHAPTER 8

OUTPUT SCREENS
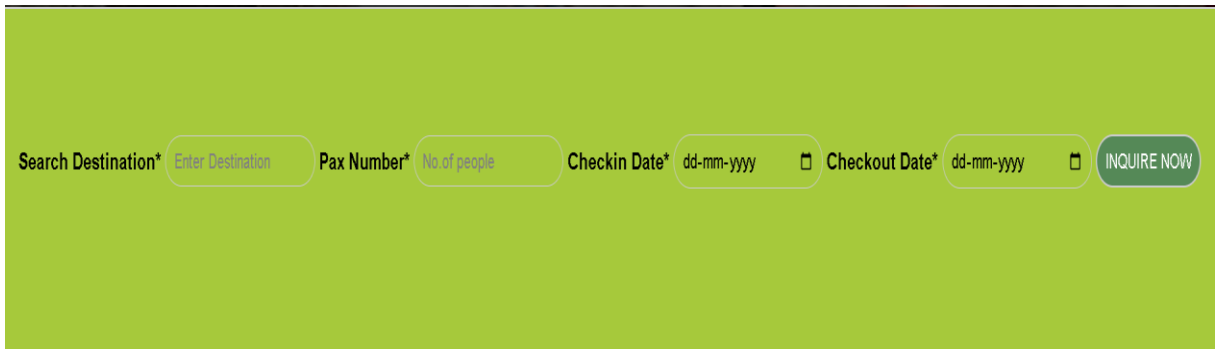
Fig.8.1. Login Page

Fig.8.2. Index Page

Fig.8.3. Inquire Now page

Fig.8.4.BookNow page

Fig.8.5. Booked Page

Fig.8.6. Packages page

Fig.8.7. Gallery Page

Fig 8.8 Contact us Page

CHAPTER 9
CONCLUSION

Platform for finding and booking vacations, flights, and hotels. Some key features that contributed to its success include:

9.1. Robust Data Management

• The website was developed with secure data storage and processing, including encrypted connections, SSL certification, and regular backups to protect user data.

• The database was well-structured to efficiently store and retrieve different types of travel content like vacation packages, flights, and hotels.

• The website integrates with external APIs to fetch real-time availability and pricing information, ensuring users see the most up-to-date travel options.

9.2. Opportunities for Expansion

• Adding a loyalty program or rewards system to incentivize repeat bookings and encourage customer loyalty.

• Implementing a customer review or ratings system to allow users to share their experiences.

• Integrating with additional travel APIs to provide users more options and allow them to compare prices from multiple providers.

• Developing a mobile app version to make it easier for users to book and manage travel on-the-go.

Overall, the travel website has been successful in meeting the needs of users by providing a convenient, secure, and informative platform for planning and booking travel. There are also many opportunities to further enhance the user experience and drive continued growth for the website.

CHAPTER 10
REFERENCES

Travel planning can be greatly enhanced by referencing fictional works that vividly depict locations and inspire wanderlust. Some notable examples include:

1.Alexandria: A History and Guide by E.M. Forster

This 1920s travel guide provides rich historical and cultural context for the city of Alexandria, Egypt, which features prominently in Forster's novels like "Alexandria Quartet".

2.The Art of Travel by Alain de Botton

De Botton's philosophical work explores the motivations and experiences of travel, pairing locations with historical figures as guides.

3.A Time of Gifts by Patrick Leigh Fermor

This classic of travel literature describes Fermor's journey on foot across Europe before WWII, offering a glimpse into a bygone era.

4.Vagabonding by Rolf Potts

Though not a novel, Potts' guide to long-term world travel contains insightful quotes and tips applicable to all types of journeys. By drawing inspiration from well-crafted fictional depictions of places, travel planners can better understand the atmosphere, culture, and history of their destinations, enhancing the overall travel experience.

CHAPTER 11
APPENDICES

Appendix: Technical Documentation and Resources. This appendix provides additional documentation and resources for the travel planner website.

HTML STRUCTURE:

The website's HTML structure is defined in the index.html file and follows a standard layout with <header>, <main>, and <footer> sections. Key elements include:

• <nav> for the main navigation menu.

• <section> elements for the homepage hero, search, and featured destinations.

• <form> for the trip search functionality.

• <article> for displaying individual trip results.

CSS STYLING:

The CSS styles are contained in the main.css file and use a mobile-first approach with media queries for responsive design. Key styles include:

• Global variables for colours, fonts, and spacing.

• Flexbox and grid layouts for page sections.

• Hover effects and animations on interactive elements.

• Consistent typography and spacing across the site.

JAVASCRIPT FUNCTIONALITY:

The JavaScript code is in the main.js file and enhances the user experience with interactive features. Key functionality includes:

• Toggling the mobile navigation menu

• Validating and submitting the trip search form.

• Displaying trip search results dynamically.

• Filtering and sorting trip options based on user preferences.