

Front End Engineering-II

Project Report
Semester-III (Batch-2023)

EASY JOURNEY



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ABSTRACT

Easy Journey is a web-based platform developed to simplify the complexities of travel planning and booking. With a multitude of travel choices available today, organizing a trip can be an overwhelming task. Easy Journey addresses this issue by offering a single destination where users can find and book everything they need, all in one place. From booking a hotel to securing the best holiday packages, flights, or car rentals, Easy Journey covers it all, providing an efficient and stress-free way to plan travel.

The platform's Hotels section offers a wide variety of accommodations to fit different budgets and preferences, allowing users to easily compare prices and amenities. Whether travelers are seeking budget-friendly options or high-end luxury stays, Easy Journey provides ample choices to cater to everyone's needs. This feature saves users the hassle of switching between multiple hotel sites, helping them find the perfect stay without wasting time and energy.

For travelers looking for pre-arranged options, the Holiday Packages feature offers a selection of curated packages that bundle together accommodations, travel, and activities. These packages cater to various destinations and budget ranges, allowing users to book a comprehensive travel experience with ease. In addition, Easy Journey's Flight Booking service enables users to search and book flights at competitive rates, ensuring they have flexible options that fit their schedules and budgets.

Lastly, the Car Rentals service offers travelers the convenience of arranging local transportation in advance. With this feature, users can book a vehicle for their destination, giving them the freedom to explore at their own pace. By combining these essential travel services in one user-friendly platform, Easy Journey streamlines the planning process, reducing the need for multiple apps or websites. Overall, Easy Journey provides an all-in-one solution that makes travel planning more straightforward and enjoyable for all users.

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1. INTRODUCTION

1.1 BACKGROUND :-

The concept of **Easy Journey** was developed in response to the increasing complexity of travel planning in today's digital age. With an abundance of online resources—ranging from hotel booking websites to flight search engines, car rental platforms, and package deal providers—travelers often face the overwhelming task of navigating multiple sites to organize their trips. This process can be time-consuming and confusing, leading to unnecessary stress and potential booking errors.

To address these challenges, Easy Journey was created as a React-based platform that brings essential travel services together in one user-friendly application. Using React has enabled Easy Journey to deliver a fast, interactive experience where users can seamlessly plan and book every part of their journey in a single place. The platform integrates hotel reservations, flight bookings, car rentals, and holiday packages, making it easy for users to access and compare options without the hassle of visiting multiple websites.

The inspiration for Easy Journey came from a desire to enhance the travel planning experience by leveraging modern web technology to make it more efficient and enjoyable. React's dynamic interface allows users to quickly navigate between booking options, compare deals, and complete transactions with just a few clicks. This approach removes the stress and complexity often associated with trip planning, offering travelers a streamlined and intuitive experience.

In a travel industry that values convenience, Easy Journey's React-based platform meets the needs of modern travelers with its seamless, all-in-one solution. Whether users are booking hotels, finding holiday packages, or arranging transportation, they can do it all within a single, responsive application designed to simplify the planning process. Easy Journey's mission is to revolutionize trip organization by providing travelers everywhere with a smoother, faster, and more enjoyable planning experience.

1.2 OBJECTIVE :-

The primary objectives of the **Easy Journey** project are centered around creating a React-based platform that simplifies the travel planning process by providing comprehensive services within a single, responsive application. These objectives guide the platform's development and functionality, ensuring it meets the needs of modern travelers through enhanced performance and user experience.

1. **Simplify the Travel Planning Process:** The main objective of Easy Journey is to streamline the often complex and fragmented process of planning a trip. By offering a React-powered platform where users can find and book essential travel services—such as hotels, flights, car rentals, and holiday packages—in one place, Easy Journey aims to reduce the time and effort required to organize a trip. The platform's interactive design and responsiveness make it easy for users to navigate through various options and complete bookings with minimal hassle.
2. **Provide a Comprehensive Range of Services:** Another key objective is to offer a wide array of travel-related services catering to different needs and preferences. Whether a user is searching for luxury hotels, budget accommodations, family holiday packages, or solo travel deals, Easy Journey covers it all. By providing a diverse selection of options, the platform ensures that every traveler can find something suited to their specific requirements. This comprehensive approach is intended to make Easy Journey a one-stop solution for all things travel-related.
3. **Enhance User Experience through React's Capabilities:** Easy Journey is committed to delivering an exceptional user experience by leveraging React's dynamic features. This involves not only ensuring a seamless booking process but also providing a visually appealing, fast, and responsive design that performs well on all devices. The React framework helps create a smooth, interactive experience that encourages users to return for their travel needs. By focusing on user experience, Easy Journey seeks to build a loyal customer base and stand out in a competitive market.
4. **Enable Informed Decision-Making with Real-Time Interactivity:** A crucial objective of Easy Journey is to empower users to make informed decisions about their travel plans.

The platform provides detailed information about each service, including customer reviews, pricing comparisons, and location details. The React framework allows this information to be presented in an interactive, real-time format, enabling users to compare options quickly and choose the one that best fits their needs and budget. By offering transparent information in an accessible layout, Easy Journey helps users feel confident in their travel choices.

5. **Promote Efficiency and Convenience:** Finally, Easy Journey aims to promote efficiency and convenience throughout the travel planning process. The platform is designed to reduce the need for users to visit multiple websites, thereby saving time and effort. By integrating all necessary services into a single, easy-to-use platform, Easy Journey offers a more convenient and efficient alternative to traditional trip planning methods, ultimately enhancing the overall travel experience for its users.

1.3 SIGNIFICANCE :-

The significance of the **Easy Journey** platform lies in its ability to solve common travel planning challenges by offering a streamlined, user-friendly, and all-encompassing solution.

- **Centralized Booking:** Easy Journey brings together all essential travel services—flights, hotels, car rentals, and holiday packages—into one centralized platform. This integration simplifies the booking process, allowing users to handle every aspect of their trip without switching between multiple websites.
- **Time Efficiency:** By consolidating different services into a single platform, Easy Journey greatly reduces the time users spend navigating various sites. This streamlined approach enables travelers to organize their entire trip quickly and efficiently, saving time and reducing stress.
- **Error Reduction:** With all services in one place, Easy Journey helps minimize booking errors, such as mismatched travel dates or duplicate bookings. This unified system makes it easier for users to coordinate their arrangements, reducing the chance of mistakes that are common when using multiple sites.

- **User-Friendly Interface:** Designed for ease of use, Easy Journey provides a simple and intuitive interface, making it accessible even to those who may not be tech-savvy. This enhances the overall user experience, making the platform easy to navigate and enjoyable to use.
- **Comprehensive Service Offering:** Easy Journey provides a broad range of travel-related services, covering hotel bookings, flights, car rentals, and holiday packages. This comprehensive approach ensures that users can meet all their travel needs without visiting other websites.
- **Convenience and Efficiency:** With all services in one location, Easy Journey promotes a hassle-free experience by removing the need to use separate platforms for each part of the trip. This integrated setup allows users to plan efficiently and complete bookings without repetitive data entry.
- **Informed Decision-Making:** The platform provides essential details for each service, such as customer reviews, pricing comparisons, and location information. This transparency allows users to make informed decisions, selecting options that best match their preferences and budgets.
- **Enhanced Travel Planning Experience:** By simplifying the travel planning process, Easy Journey offers a more enjoyable and less stressful experience for users. The reduction in complexity makes organizing a trip a smoother experience from start to finish.
- **Competitive Edge:** In a crowded travel industry, Easy Journey stands out by offering a unique, all-in-one solution that addresses the fragmentation of travel services. Its ability to deliver a seamless experience gives it an edge over traditional travel booking methods.
- **Customer Satisfaction:** The platform's focus on efficiency, convenience, and usability leads to greater customer satisfaction. By resolving common travel planning issues, Easy Journey aims to provide a more satisfactory and reliable experience for its users, increasing overall engagement and loyalty.

2. PROBLEM DEFINITION AND REQUIREMENT

2.1 PROBLEM STATEMENT :-

In the digital age, planning trips has become increasingly challenging due to the fragmented nature of online travel resources. With numerous websites and platforms offering individual travel services—such as flight bookings, hotel reservations, car rentals, and holiday packages—travelers often feel overwhelmed as they navigate through multiple sites to coordinate their travel needs. This scattered approach not only consumes valuable time but also raises the risk of booking errors, such as conflicting dates or duplicate reservations.

This problem is compounded by the lack of integration among these services, resulting in a disjointed and often stressful planning process. Users must adapt to various interfaces, manually compare prices, and track multiple transactions, all of which add complexity and reduce efficiency. The need for a streamlined solution is clear: a unified platform that brings together all essential travel services into a single, accessible location.

To address these issues, there is a need for an integrated platform that simplifies trip planning by consolidating bookings, reducing the risk of errors, and enhancing the overall user experience. This platform should offer a cohesive, user-friendly interface for managing all travel arrangements, making trip planning more efficient, convenient, and enjoyable.

Additionally, the platform should include advanced features like personalized recommendations, real-time updates, and intuitive navigation to meet diverse traveler needs and preferences. By leveraging technology to create an all-in-one travel planning experience, the platform aims to set a new standard in the travel industry, providing travelers with a convenient, seamless, and stress-free solution for managing their journeys.

2.2 SOFTWARE REQUIREMENTS :-

The "Easy Journey" platform's software requirements outline essential features, functionalities, and specifications to create a seamless and user-friendly travel planning solution. The functional requirements are as follows:

1. **User Registration and Authentication:** The platform should allow users to register using their email addresses or social media accounts, providing a simple and secure registration process. Users should be able to log in, log out, and manage their accounts with secure authentication methods.
2. **Search Functionality:** Easy Journey should offer a comprehensive search feature, enabling users to find flights, hotels, car rentals, and holiday packages based on various criteria, such as destination, dates, and budget. Search results should display relevant options with essential information like price, ratings, and availability, making it easy for users to compare and select services.
3. **Booking System:** Users should be able to select and book their desired services, such as flights and accommodations, directly through the platform. The booking system should support secure payment processing, and users should receive booking confirmations via email to ensure a smooth and reliable booking experience.
4. **User Profiles:** Each user should have a personalized profile where they can manage their bookings, save preferences, and update payment methods. Users should be able to view their booking history, modify or cancel reservations, and personalize their profiles to enhance their experience on the platform.
5. **Reviews and Ratings:** To help travelers make informed choices, the platform should enable users to leave reviews and rate the services they have used. This feature encourages transparency and provides valuable feedback for other users.
6. **Responsive Design:** The platform should be fully responsive, ensuring a consistent and optimized user experience across all devices, including desktops, tablets, and smartphones.

7. **Customer Support:** Easy Journey should offer accessible customer support options, including live chat, email, or a contact form, to assist users with any inquiries or issues they may encounter while using the platform.

2.3 HARDWARE REQUIREMENTS :-

Development Machines:

- **Operating System:** Developers should use operating systems like Windows, macOS, or Linux that support the necessary development tools (e.g., Node.js, React, IDEs).
- **Software Tools:** Machines should have essential development tools installed, such as IDEs (e.g., Visual Studio Code, IntelliJ IDEA), version control systems (e.g., Git), and containerization tools (e.g., Docker) for smooth development processes.
- **Database and Local Servers:** Machines should be able to run local databases (e.g., MySQL, PostgreSQL) or mock APIs for testing purposes. Local server environments (e.g., XAMPP, WAMP, or Node.js) should be supported for quick deployment and testing.
- **Browser Support:** Ensure compatibility with various browsers (Chrome, Firefox, Safari) for cross-browser testing of the platform.

Servers:

- **Cloud Infrastructure:** The use of cloud services like AWS, Google Cloud, or Microsoft Azure is recommended for easy scalability, resource allocation, and high availability.
- **Database Servers:** Dedicated database servers (e.g., MySQL, MongoDB) may be required for storing user and transaction data. Cloud-based database solutions can help with backup and redundancy.
- **CDN (Content Delivery Network):** To improve the speed of content delivery, use a CDN to distribute static content like images, stylesheets, and JavaScript files across multiple geographic locations.
- **Backup and Redundancy:** Implement automatic backups and ensure the system has failover mechanisms for high availability in case of server downtime or failure.

- **Security Features:** Servers should have firewalls, SSL certificates for secure communication, and other security protocols (e.g., DDoS protection) to safeguard the platform from cyber threats.
- **Monitoring Tools:** Use server monitoring tools (e.g., New Relic, Prometheus) to track the server's performance, uptime, and to detect potential issues proactively.
- **Load Balancers:** For high traffic, incorporate load balancing solutions to distribute incoming traffic evenly across servers and ensure minimal latency.

2.4 DATA SETS :-

1. Flight Data:

- **Description:** This dataset contains essential information about flights, including flight numbers, airlines, departure and arrival times, prices, seat availability, and flight status (delays, cancellations).
- **Source:** Flight data is typically sourced from airlines' APIs, third-party travel data providers, or flight aggregators.
- **Usage:** This dataset populates the flight search results, enabling users to compare available options based on travel dates, destinations, budgets, and other preferences such as non-stop flights or flexible timings. It is also used for real-time updates on flight statuses.

2. Hotel Data:

- **Description:** This dataset includes details about hotels, such as hotel names, locations, room types, amenities, prices, availability, and user ratings.
- **Source:** Hotel data is sourced from APIs provided by hotel chains, online travel agencies (OTAs), and third-party aggregators like Booking.com, Expedia, or Hotels.com.
- **Usage:** The hotel dataset helps users search for and book accommodation that meets their preferences, such as budget range, location, or amenities (e.g., pool, Wi-Fi). It also provides real-time availability and the ability to view user reviews to aid decision-making.

3. Car Rental Data:

- **Description:** This dataset contains information on car rental services, including car types, rental rates, availability, pick-up and drop-off locations, rental policies (e.g., mileage limit), and insurance options.
- **Source:** Car rental data is generally sourced from car rental companies' APIs or aggregators that collect data from multiple service providers like Enterprise, Hertz, or Avis.
- **Usage:** This dataset allows users to search and book rental cars for their trips, ensuring they can select vehicles that suit their needs in terms of size, type, and rental price. It also helps in managing rental durations, locations, and vehicle availability.

4. Holiday Package Data:

- **Description:** This dataset includes details about packaged tours, including itineraries, destinations, activities, accommodation, included services (e.g., guided tours, meals), prices, and availability.
- **Source:** Holiday package data is sourced from travel agencies, tour operators, or package aggregators like Viator, Klook, or GetYourGuide.
- **Usage:** This dataset helps users find all-inclusive holiday packages that combine multiple travel services, making it easier for users to book pre-designed itineraries. It also displays special offers and discounts available on specific packages.

5. User Data:

- **Description:** This dataset contains personal user information, including usernames, email addresses, passwords, preferences (e.g., favorite destinations, travel styles), and booking history.
- **Source:** User data is collected at registration and updated as users interact with the platform (e.g., making bookings, leaving reviews).
- **Usage:** This data enables personalized user experiences, such as offering travel suggestions based on past trips or preferences. It also allows users to track their booking history, make changes to existing reservations, and receive personalized notifications.

6. Payment Data:

- **Description:** This dataset includes transaction details such as payment method, payment amounts, currency, payment status, and date of transaction.
- **Source:** Payment data is collected from payment gateways (e.g., PayPal, Stripe, or credit card companies) during the booking process.
- **Usage:** Payment data facilitates secure transaction processing and confirmation of bookings. It is also used for generating invoices, handling refunds, and ensuring accurate financial tracking within the platform.

7. Review and Rating Data:

- **Description:** This dataset includes user-generated reviews and ratings for various services (flights, hotels, car rentals, holiday packages).
- **Source:** Review data is sourced from users who have booked and used services through the platform.
- **Usage:** Review and rating data helps future users evaluate the quality and reliability of services. It builds trust by providing insights into other travelers' experiences, which assists users in making better-informed decisions.

8. Weather Data:

- **Description:** This dataset contains weather forecasts for travel destinations, including temperature, humidity, precipitation, and other relevant data such as air quality.
- **Source:** Weather data is sourced from weather APIs or third-party services like OpenWeatherMap or AccuWeather.
- **Usage:** Weather data can be displayed alongside flight, hotel, or holiday package options, helping users plan their travel according to optimal weather conditions. This feature can be particularly useful for outdoor activities or destination-specific travel planning.

9. Location Data:

- **Description:** This dataset includes geographical data for cities, landmarks, points of interest (POIs), and detailed location descriptions (latitude, longitude, neighborhood, etc.).
- **Source:** Location data is sourced from mapping and geolocation services, including Google Maps, Mapbox, and OpenStreetMap.
- **Usage:** Location data helps users find hotels, car rentals, or flights that are close to desired destinations, and allows the platform to display nearby attractions and amenities to enhance the travel planning experience.

10. Promotions and Discounts Data:

- **Description:** This dataset includes information on active promotions, discount codes, seasonal offers, and special deals on travel services.
- **Source:** Promotions data can be obtained from travel providers, affiliate programs, or directly from the platform's own promotions.
- **Usage:** This data enables users to find cost-effective deals for flights, hotels, and holiday packages, helping to increase bookings by offering users value through discounts.

11. Travel Insurance Data:

- **Description:** This dataset contains information on available travel insurance plans, including coverage details, pricing, and terms (e.g., cancellation, medical emergencies, lost luggage).
- **Source:** Insurance data is sourced from travel insurance providers or third-party agencies.
- **Usage:** Users can browse and purchase travel insurance through the platform, providing an added layer of security for their trips. This data ensures that users can compare different insurance policies and choose the one that best suits their needs.

3. PROPOSED DESIGN / METHODOLOGY

1. Design Principles:

- **User-Friendly:** Prioritize intuitive navigation and quick access to essential travel services across all internal pages. The user interface should be clean and easy to use, even for those with limited technical knowledge.
- **Responsive:** Ensure a seamless and optimized user experience on all devices (desktops, tablets, and smartphones). Leverage Bootstrap's responsive grid system to adapt the layout to different screen sizes, providing flexibility and ensuring that all features are accessible across platforms.
- **Consistency:** Maintain a consistent visual style and structure throughout the platform to provide users with a cohesive and predictable experience.
- **Aesthetics:** Implement modern design principles, utilizing appealing color schemes, typography, and visual elements to enhance user engagement and reflect the platform's travel-focused nature.

2. Development Approach:

- **HTML & CSS:** Utilize HTML5 for structuring the content and CSS for styling, ensuring a visually appealing and functional layout. Use CSS frameworks like Bootstrap for consistency in design elements and responsiveness.
- **JavaScript:** Implement JavaScript for dynamic functionality, including form validation, interactive elements (e.g., sliders, carousels), and asynchronous content loading (AJAX) to enhance the user experience by reducing page reloads.
- **Bootstrap:** Employ Bootstrap's grid system and pre-built components to streamline the development of a responsive and flexible layout. Utilize Bootstrap's modular design to create clean and uniform UI elements, such as buttons, navigation bars, and modals.

3. Workflow:

- **Plan:** Begin by defining the core features and internal pages of the platform. Identify key travel services to be integrated (e.g., flight bookings, hotel reservations, car rentals) and create wireframes and mockups for the website's structure and design.
- **Design:** Create detailed design prototypes for each page and component, ensuring a visually cohesive and intuitive user interface.
- **Develop:** Use HTML, CSS, JavaScript, and Bootstrap to code the website, focusing on consistency and responsiveness across different screen sizes and devices. Implement essential features, including the search functionality, booking system, user accounts, and payment gateway integration.
- **Test:** Perform testing to ensure that the website is bug-free and performs optimally across various browsers and devices. Conduct usability testing to identify and address any user experience issues.
- **Deploy:** Launch the platform on a secure web server, making it publicly accessible to users. Ensure the deployment process includes setting up proper server configurations and domain management.

4. Deployment:

- **Launch:** After thorough testing and optimization, launch the website, ensuring it is accessible to users worldwide. Monitor the platform for any performance or security issues post-launch.
- **Maintenance:** Regularly update the site with new content, features, and security patches. Address any issues or feedback received from users to continuously improve the platform.
- **Monitoring:** Set up monitoring tools to track website performance, traffic, and user behavior to gather insights for further improvements.

5. Future Updates:

- **Enhance:** Regularly enhance the platform by adding new features, such as personalized travel recommendations, real-time flight status updates, or a loyalty program. Update the design to keep it fresh and align with emerging design trends.
- **Expand:** Expand the content offerings, including more destination options, additional travel services, and exclusive deals. Consider integrating with new travel partners to offer users even more comprehensive travel planning options.
- **User Feedback:** Continuously gather and analyze user feedback to identify pain points and areas for improvement. Prioritize features and updates based on user demand and industry trends.
- **Scalability:** As the user base grows, ensure that the platform's infrastructure can scale effectively to handle increased traffic, including optimizing server capacity, database performance, and content delivery.

4. CONTRIBUTION

EVALUTAION – 1 :-

Pages designed by me are :-

1. Hotels Page
2. Holiday Package Page
3. Fee
4. documentation

There are the screenshot of the above :-

Hotels Page :-

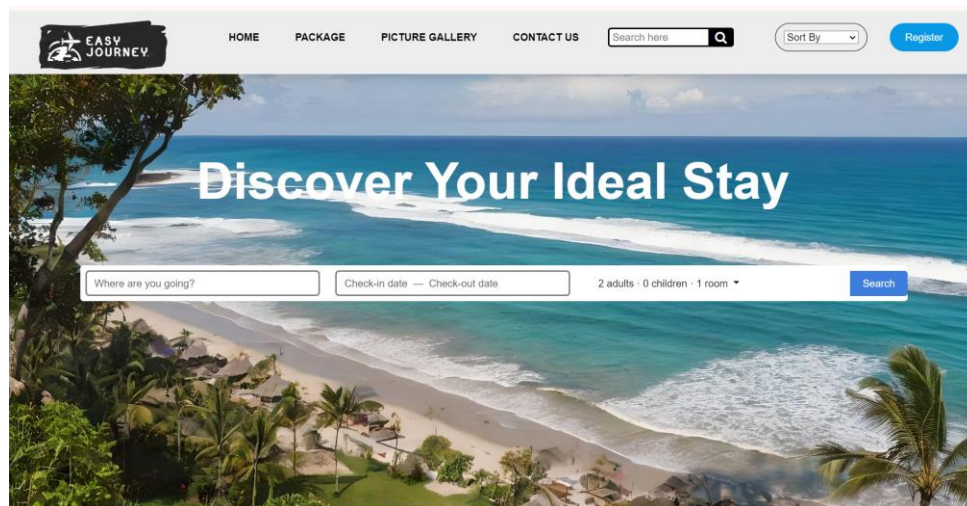


Figure 1

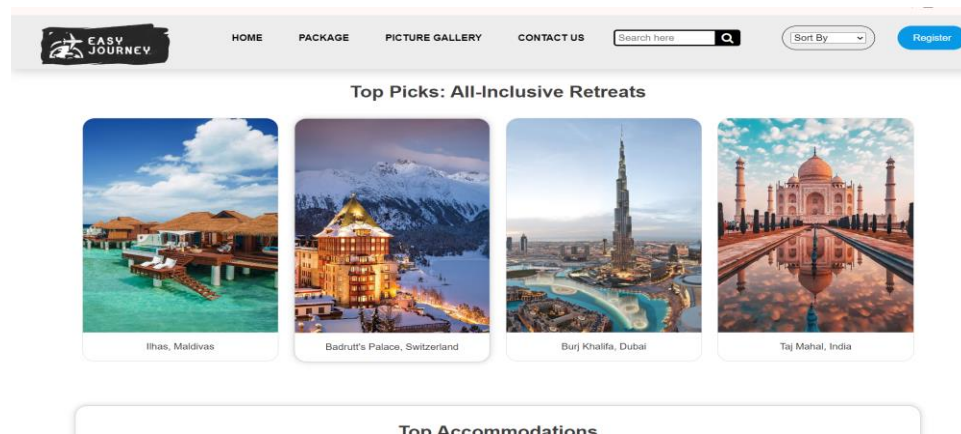


Figure 2

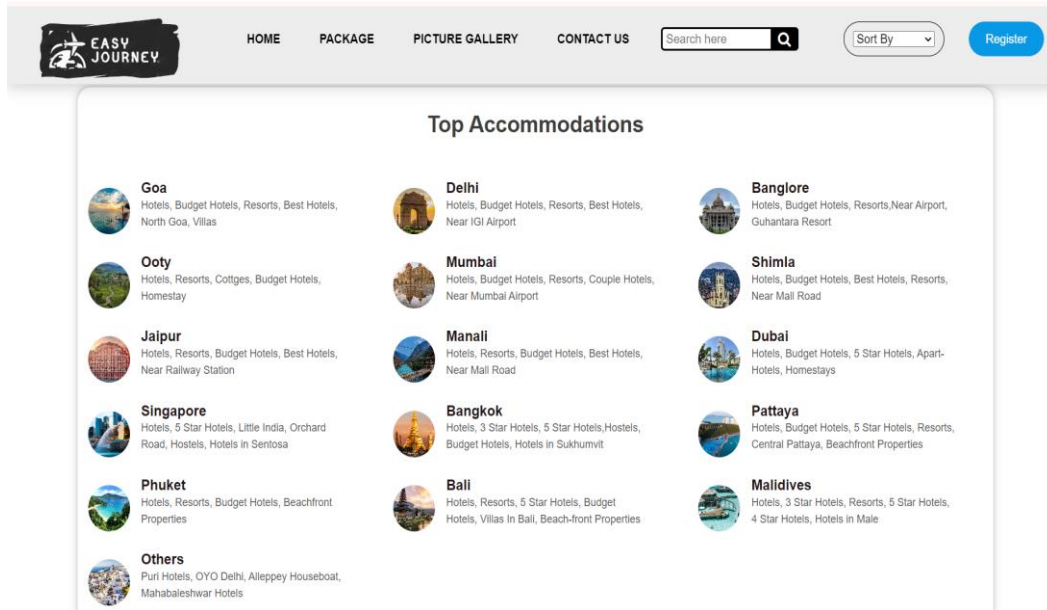


Figure 3

Holidays Package Page :-

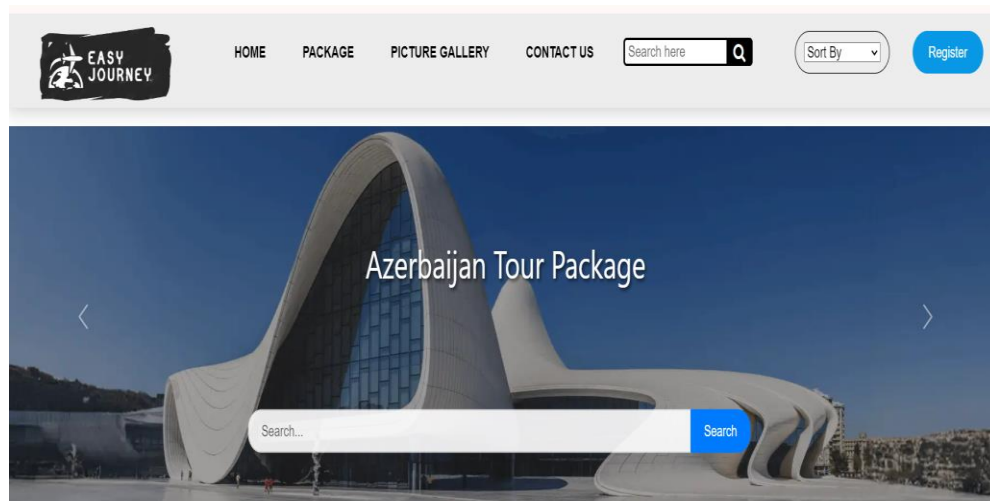


Figure 4

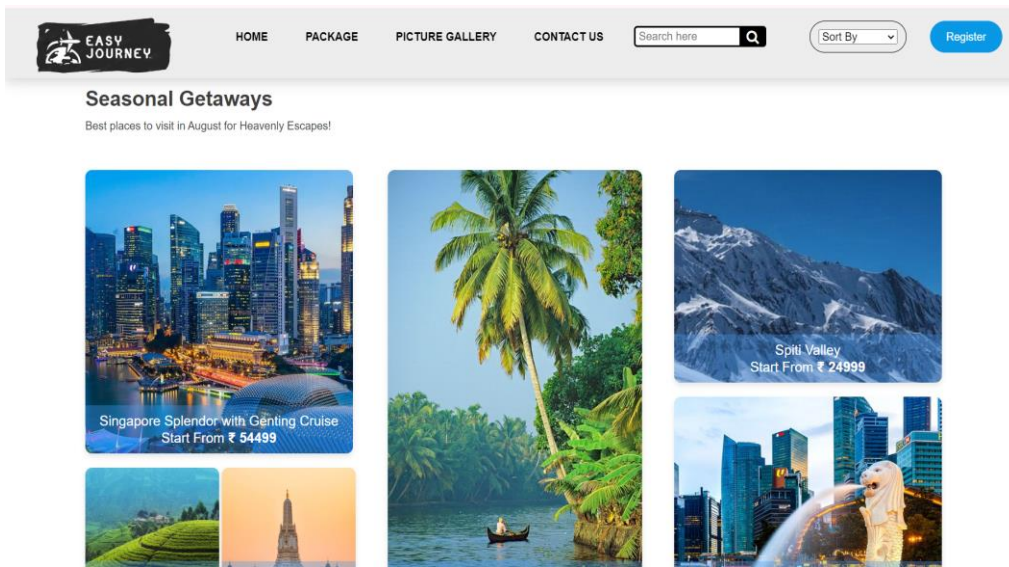


Figure 5

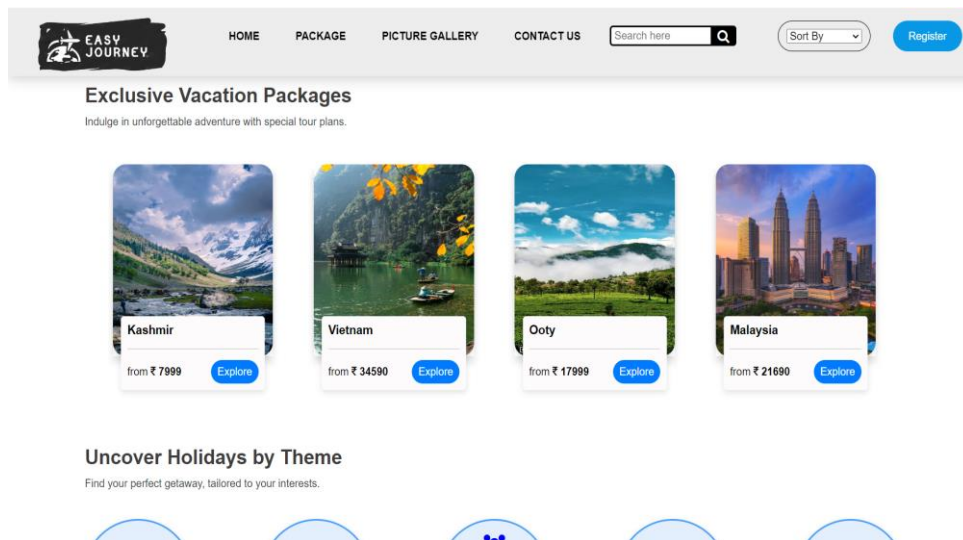


Figure 6

EVALUTAION – 2 :-

The Changes Made By Me Are :-

1. Hotels Page :- Added javascript in search bar and For Opening the List of Hotels And added some of the internal pages .
2. Holiday Package Page :- Added javascript in search bar.
3. Fee
4. documentation

There are the screenshot of the above :-

Hotels Page :-

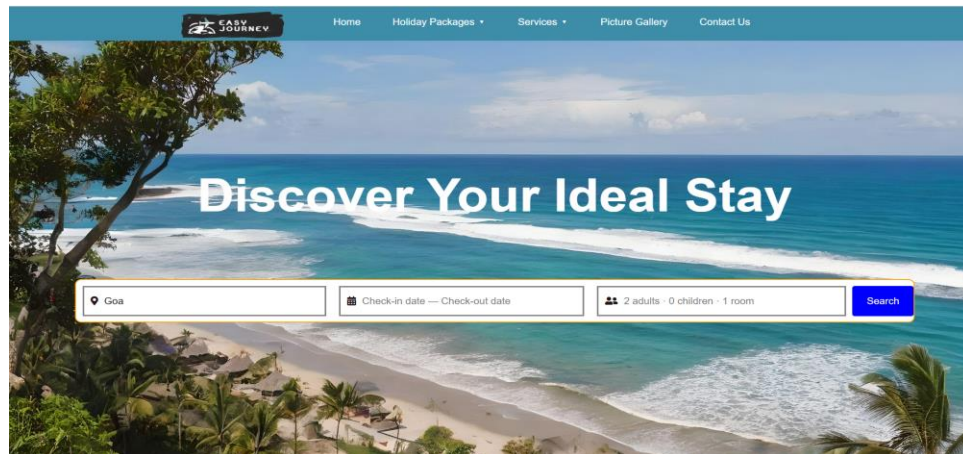


Figure 1

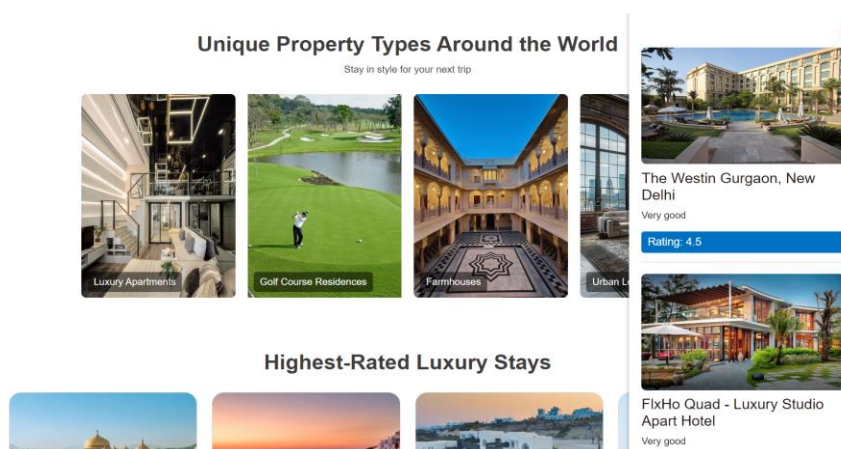


Figure 2

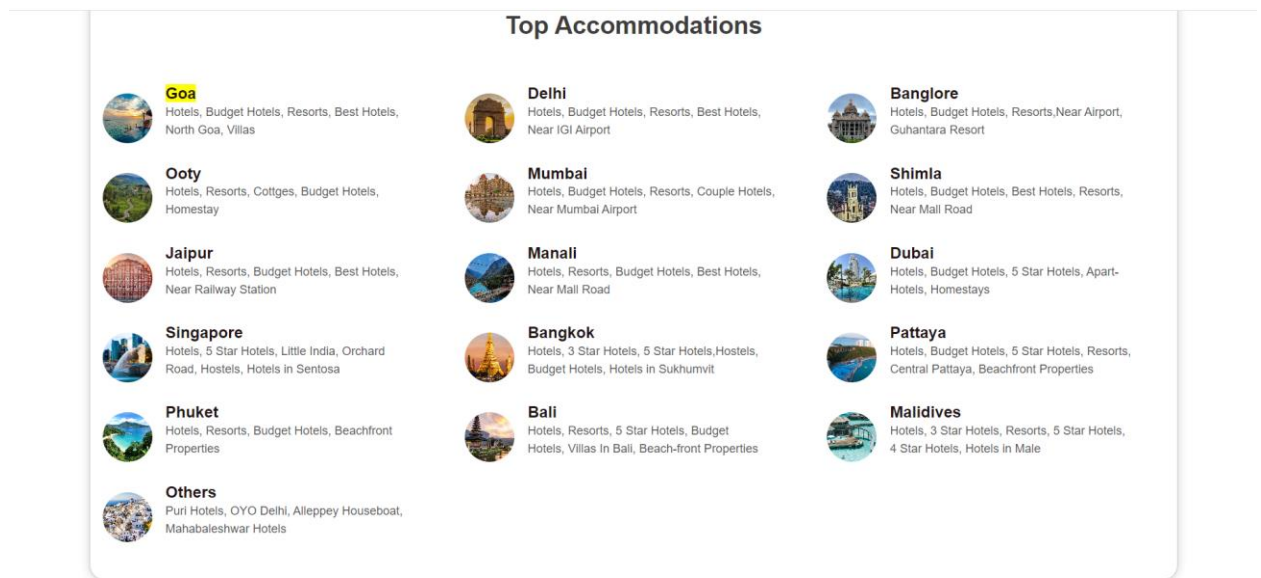


Figure 3

Internal Page :-



Figure 4



Showing Properties around Goa

Resort Primo Bom Terra Verde ★★☆☆

In North Goa | 1.3 km drive to Baga Beach

- Free Cancellation
- Book with ₹0 Payment

Located near Baga and Calangute beaches, surrounded by beautiful greenery, charming wooden cottages.

Very Good 3.8
(2051 Ratings)

~~₹3,599~~

₹1,447

Login to Book Now & Pay Later!

Figure 5

Holiday Package :-

[Home](#)
[Holiday Packages ▾](#)
[Services ▾](#)
[Picture Gallery](#)
[Contact Us](#)

Azerbaijan Tour Package

Search... [Search](#)

Highest-Rated Luxury Stays

Explore the hottest travel spots around the globe.

Figure 6

Highest-Rated Luxury Stays

Explore the hottest travel spots around the globe.



Australia



Europe



Bali



Canavies Oia Eptome



Mahali Mzuri

Seasonal Getaways

Best places to visit in August for Heavenly Escapes!

Figure 7

FINAL EVALUATION :-

Hotels Page :-

The Hotels page now provides users with detailed options for accommodation, including filters to sort hotels by rating, price range, amenities, and location. Each hotel listing displays essential details like room types, prices, user ratings, and reviews, giving users a comprehensive overview for informed decision-making. Visual appeal has been enhanced with a mini-gallery showcasing room images and hotel facilities. A booking button has been added, allowing users to make reservations directly from the page. Additionally, a map view feature has been integrated, enabling users to see each hotel's location in proximity to popular landmarks.

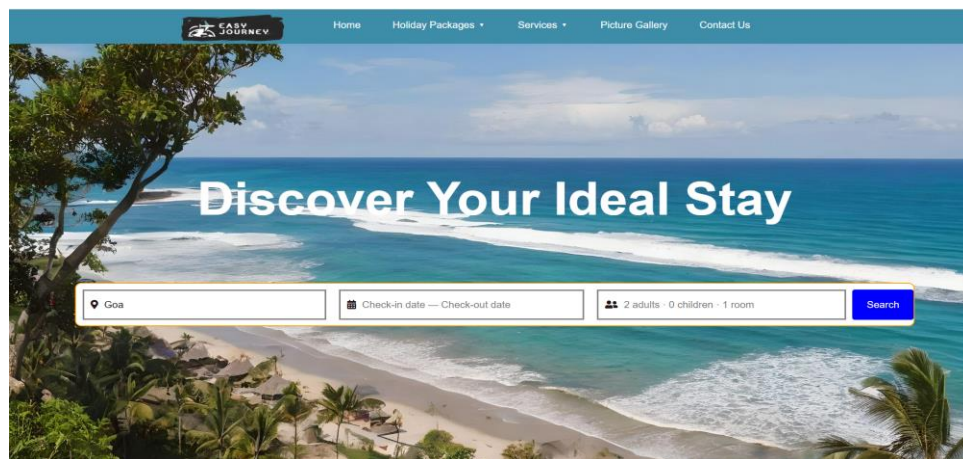


Figure 8

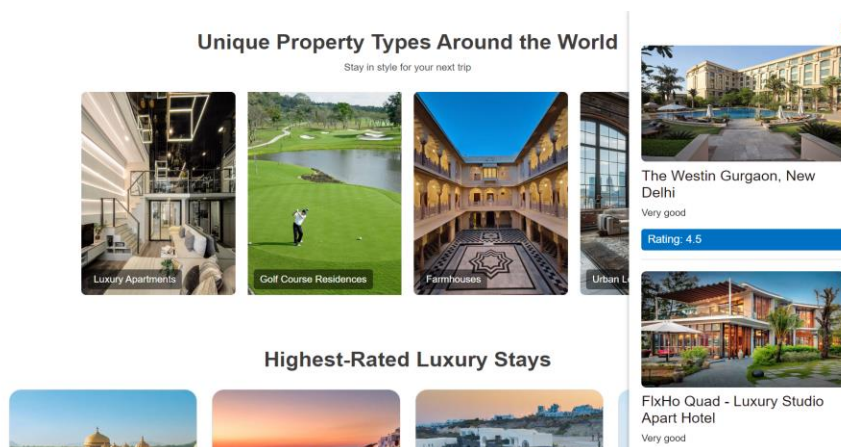


Figure 9

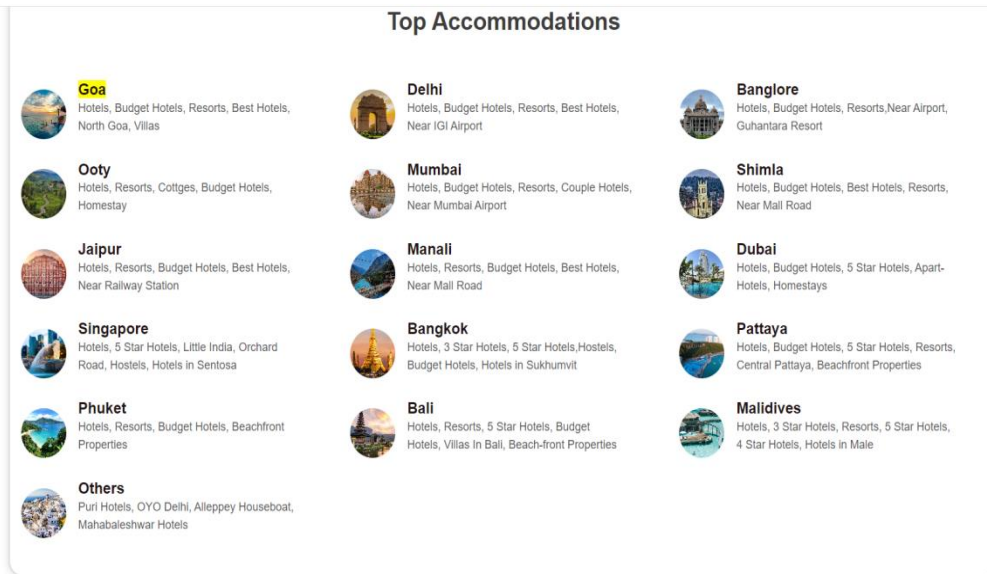


Figure 10

Internal Page :-



Figure 11

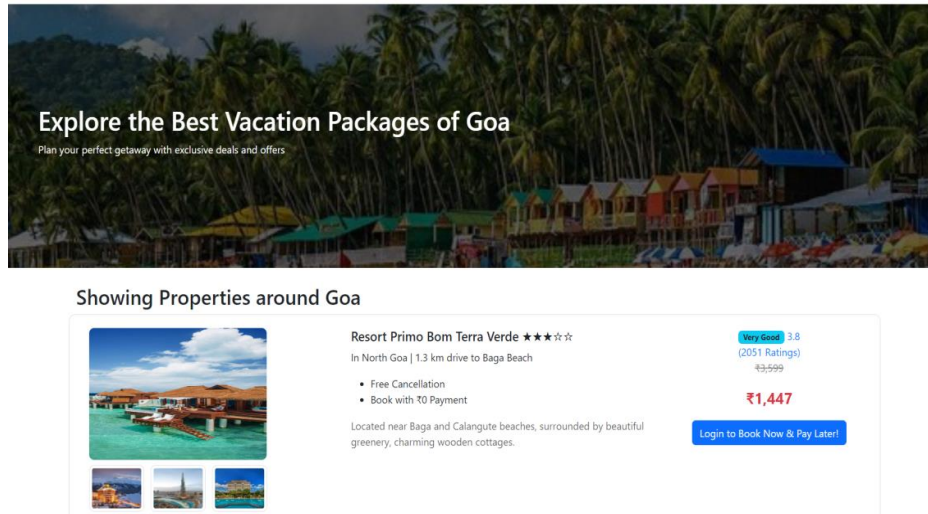


Figure 12

Holiday Package :-

The Holiday Package page now features curated packages categorized by destination, duration, and theme, such as "Adventure," "Relaxation," and "Family." For each package, detailed itineraries are provided, including day-by-day activities, highlights, and special inclusions (e.g., meals, excursions, or guided tours). Visuals for each package, like destination images and activity snapshots, have been organized into a gallery to help users visualize the experience. A search and filter feature allows users to browse packages based on specific interests or budget. Booking links and a "Save for Later" option have been added, allowing users to easily bookmark packages for future consideration.

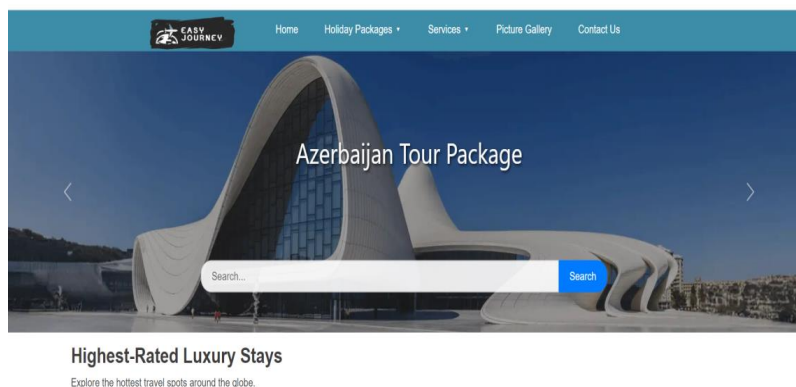


Figure 13

Highest-Rated Luxury Stays

Explore the hottest travel spots around the globe.



Australia



Europe



Bali



Canaves Oia Epitome



Mahali Mzuri

Seasonal Getaways

Best places to visit in August for Heavenly Escapes!

Figure 14

6. REFERENCES :

- Took inspiration from YouTube tutorials for design and functionality
- Used GitHub repositories for code examples and best practices
- Searched Google for solutions to coding challenges and design ideas
- Learned techniques and tips from various online learning platforms