ABSTRACT

RoamHub is a robust tourism management system designed as a college project, featuring dual interfaces for users and administrators. The user interface facilitates account creation, password management, booking of packages, enquiry submissions, and management of booking history. Users can request refunds and cancellations, ensuring comprehensive control over their travel plans. Administrators, on the other hand, wield extensive authority, managing website content such as Contact Us details and policy pages, overseeing booking confirmations and cancellations, and administering package updates and deletions. They also handle user management tasks including account oversight and booking administration. Implemented with HTML, CSS, JavaScript, jQuery for frontend interactivity, and PHP with MySQL for backend database functionality, RoamHub ensures a seamless user experience while offering administrators robust tools for site administration and content management. Moving forward, considerations for enhanced security, scalability, and performance optimization will further refine RoamHub's functionality and usability, making it an ideal platform for tourism management in academic and practical contexts alike.

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1. Introduction

1.1 Overview

RoamHub is an innovative tourism management system developed as a college project, aimed at streamlining the process of booking and managing travel packages. The website features two distinct interfaces: one for users and another for administrators. Users can create accounts, update personal information, book travel packages, make inquiries, request refunds, and view their booking history. On the other hand, administrators have full control over the website content, including the ability to update pages like "Contact Us," "Terms and Conditions," and "Privacy Policy." They can also manage bookings by confirming or canceling reservations, updating or deleting travel packages, and handling user accounts and inquiries. RoamHub is built using modern web technologies such as HTML, CSS, JavaScript, jQuery, PHP, and MySQL, ensuring a robust, responsive, and scalable platform. The project aims to provide a user-friendly experience for travelers, grant administrators complete control over website operations, and ensure a smooth process for handling inquiries, bookings, cancellations, and refunds, making it a reliable and efficient solution for managing tourism-related activities

.1. 2 OBJECTIVES

- User-Friendly Experience:

Create an intuitive and seamless interface for users to easily create accounts, book travel packages, make inquiries, and manage their bookings.

- Comprehensive Administrative Control:

Provide administrators with full control over website content, including the ability to update critical pages such as "Contact Us," "Terms and Conditions," and "Privacy Policy."

- Efficient Booking Management:

Enable administrators to manage bookings effectively, including confirming or canceling reservations, updating travel packages, and handling user inquiries.

- Robust Technology Implementation:

Utilize modern web technologies like HTML, CSS, JavaScript, jQuery, PHP, and MySQL to ensure the platform is robust, responsive, and scalable.

- Streamlined Processes:

Ensure smooth and efficient processes for handling user inquiries, booking requests, cancellations, and refunds.

- High Service Quality:

Maintain a high level of service quality and user satisfaction through effective user and booking management.

- Scalability and Maintenance:

Build a system that is easily scalable and maintainable to adapt to future needs and enhancements.

- Secure Data Management:

Implement secure data handling practices to protect user information and ensure data integrity within the system.

- Reliable Solution for Tourism Management:

Develop a reliable and efficient solution for managing tourism-related activities, catering to the needs of both travelers and administrators.

1.3 Goals of the RoamHub Project

- Enhance User Engagement:

Develop an engaging and user-friendly interface that encourages users to explore and book travel packages with ease.

- Improve Administrative Efficiency:

Create tools and features that allow administrators to efficiently manage website content, user accounts, bookings, and inquiries.

- Increase Booking Volume:

Attract more users to the platform and increase the number of travel package bookings through a streamlined and intuitive booking process.

- Ensure Data Security:

Implement robust security measures to protect user data and ensure secure transactions and data management.

- Achieve High User Satisfaction:

Provide a seamless and reliable user experience that meets the needs and expectations of travelers, leading to high levels of user satisfaction and repeat usage.

- Facilitate Easy Maintenance:

Build a system that is easy to maintain and update, allowing for quick adjustments and improvements as needed.

- Enable Scalability:

Design the platform to be scalable, capable of handling an increasing number of users, bookings, and administrative tasks as the platform grows.

- Foster Reliable Communication:

Ensure efficient and clear communication between users and administrators through effective inquiry handling and support features.

- Deliver a Competitive Edge:

Create a unique and innovative tourism management system that stands out in the market, offering superior features and user experience compared to competitors.

- Support Continuous Improvement:

Establish a feedback mechanism to continuously gather user and administrator input, allowing for ongoing improvements and enhancements to the system.

2. Existing method

The existing system of RoamHub serves as a comprehensive tourism management platform that offers distinct functionalities for both users and administrators.

2.1 User Interface

- Account Creation and Management:

Users can create accounts, log in, and manage their personal information and credentials.

- Package Booking:

Users have the ability to browse through a variety of travel packages and make bookings based on their preferences.

- Inquiries and Support:

The system allows users to make inquiries about travel packages, request refunds, and cancel bookings when needed.

- Booking History:

Users can view their past and present bookings, providing them with a clear overview of their travel history and plans.

- Account Security:

Implements strong password policies and encrypted storage to ensure user account security. Includes features for password recovery and account lockout after multiple failed login attempts.

- Search and Filter:

Users can search for travel packages based on various criteria such as destination, price range, duration, and travel dates. Filters and sorting options help users find packages that best suit their needs.

- Package Details:

Detailed descriptions, itineraries, images, and customer reviews are available for each travel package. Users can view pricing details, including any discounts or special offers.

- Booking Confirmation:

Users receive email notifications for booking confirmations, cancellations, and status updates. A summary of booking details is provided before final confirmation to ensure accuracy.

- User Dashboard:

A personalized dashboard displays upcoming trips, past bookings, and inquiry statuses.Users can manage their profiles, view messages from administrators, and track refund requests.

2.2 Administrator Interface:

- Website Content Management:

Administrators have full control over updating critical website pages such as "Contact Us," "Terms and Conditions," and "Privacy Policy."

- Booking Management:

Admins can confirm or cancel bookings, ensuring efficient management of reservations.

- Package Management:

The system allows administrators to add, update, or delete travel packages, ensuring that the offerings remain current and attractive to users.

- User Management:

Administrators can manage user accounts, handle inquiries, and oversee all website operations, maintaining high service quality and user satisfaction.

- User Analytics:

Administrators have access to user analytics, including user activity, booking trends, and popular travel packages. Reports and dashboards help in making data-driven decisions to improve service offerings.

- Content Management System (CMS):

An integrated CMS allows administrators to easily manage and update website content, including blogs, news, and promotional banners. Support for multimedia content (images, videos) to enhance user engagement.

- Dynamic Pricing:

Administrators can set dynamic pricing rules based on factors such as seasonality, demand, and special events. Automatic updates to package prices based on predefined criteria.

- Customer Relationship Management (CRM):

Tools for managing customer interactions, tracking inquiries, and maintaining communication history. Automated responses and personalized communication to improve customer satisfaction.

2.3 Technological Foundation:

- HTML and CSS: Used for structuring and styling the web pages.
- JavaScript and jQuery:Employed for adding dynamic content and interactive elements to the website.
- PHP: Utilized for server-side scripting and handling backend operations.
- MySQL: The database management system used to store user data, bookings, and package details.
- Technological Foundation (Advanced Aspects):
- Responsive Framework: The website is built using responsive web design principles, ensuring optimal performance and appearance on desktops, tablets, and mobile devices.
- Utilizes frameworks like Bootstrap for consistent and adaptable layouts.
- Database Optimization: MySQL database is optimized for performance, with indexing, query optimization, and regular maintenance to ensure fast data retrieval and storage.
- Data backup and recovery processes are in place to protect against data loss.
- Scalability and Performance:The system architecture supports horizontal and vertical scaling to accommodate growing user traffic and data volume.
- Load balancing and caching mechanisms are implemented to ensure high performance and availability.

- Security Measures:Regular security audits and updates to protect against vulnerabilities and threats.
- Secure communication protocols (HTTPS) and data encryption to safeguard user information.

2.4 System Features:

- User Authentication: Secure login and account management for users.
- Responsive Design: Ensures the website is accessible and functional across various devices.
- Real-time Updates: Allows administrators to update website content and travel packages in real-time.
- Data Integrity: Ensures that user data and booking information are securely managed and accurately maintained.

2.5 Limitations:

- Scalability: The current system may need enhancements to handle a significantly larger user base and increased data volume.
- Automation: Some processes may still require manual intervention, which could be automated for improved efficiency.
- User Experience: There may be areas in the user interface and experience that can be further refined based on user feedback.

The existing system of RoamHub provides a solid foundation for managing tourism-related activities, offering essential features for both users and administrators while ensuring a robust and responsive platform.

3.Proposed method with architecture

The proposed method for enhancing and expanding RoamHub involves several key steps and improvements aimed at addressing current limitations and incorporating advanced features to elevate user and administrator experiences.

3.1 Objectives

- Enhance User Engagement and Satisfaction
- Improve Administrative Efficiency
- Ensure Scalability and Performance
- Increase Security and Data Protection
- Incorporate Advanced Technologies

3.2 User Experience Optimization

3.2.1 User Interface (UI) and User Experience (UX) Enhancements:

- Redesign UI: Revamp the website layout and design to make it more intuitive, visually appealing, and easy to navigate. Use modern design principles and responsive frameworks like Bootstrap.
- Personalized Experience: Implement user profiles that offer personalized recommendations based on past bookings and user preferences.
- Interactive Elements: Add interactive elements such as virtual tours, live chats, and interactive maps to enhance user engagement.

3.2.2 Mobile Application Development:

- Native Apps: Develop native mobile applications for both iOS and Android platforms to provide a seamless and convenient experience for users on the go.
- Push Notifications: Enable push notifications for booking confirmations, special offers, and travel reminders.

3.2.3 Advanced Booking and Payment System:

- Dynamic Pricing: Implement dynamic pricing models that adjust prices based on demand, seasonality, and special events.
- Multiple Payment Options: Integrate multiple payment gateways to support various payment methods, including credit/debit cards, digital wallets, and bank transfers.

- Real-time Availability: Ensure real-time updates for package availability and instant booking confirmations.

3.2.4 Enhanced Administrator Dashboard:

- Analytics and Reporting: Incorporate advanced analytics and reporting tools to provide insights into user behaviour, booking trends, and package performance.
- Automated Tasks: Automate routine administrative tasks such as sending confirmation emails, generating invoices, and updating package information.
- Content Management: Integrate a comprehensive CMS for easy management of website content, including blog posts, promotional banners, and multimedia.

3.2.5 Enhanced Security Measures:

- Data Encryption: Ensure all user data is encrypted both at rest and in transit to protect against unauthorized access and breaches.
- Regular Audits: Conduct regular security audits and vulnerability assessments to identify and address potential threats.
- Two-Factor Authentication (2FA): Implement 2FA for both user and administrator logins to add an extra layer of security.

3.2.6 Social Media Integration:

- Share Features: Enable users to share their travel plans and experiences on social media platforms directly from RoamHub.
- Social Login: Allow users to sign up and log in using their social media accounts for quicker access and a seamless experience.

3.2.7 Continuous Improvement and Feedback Loop:

- User Feedback: Implement feedback mechanisms to gather user input on new features and overall experience, using surveys and ratings.
- Iterative Development: Adopt an agile development approach to continuously release improvements and new features based on user feedback and technological advancements.

By implementing these proposed methods, RoamHub aims to enhance user engagement, improve administrative efficiency, ensure scalability and security, and incorporate advanced technologies to provide a superior tourism management experience.

3.3 use case diagram

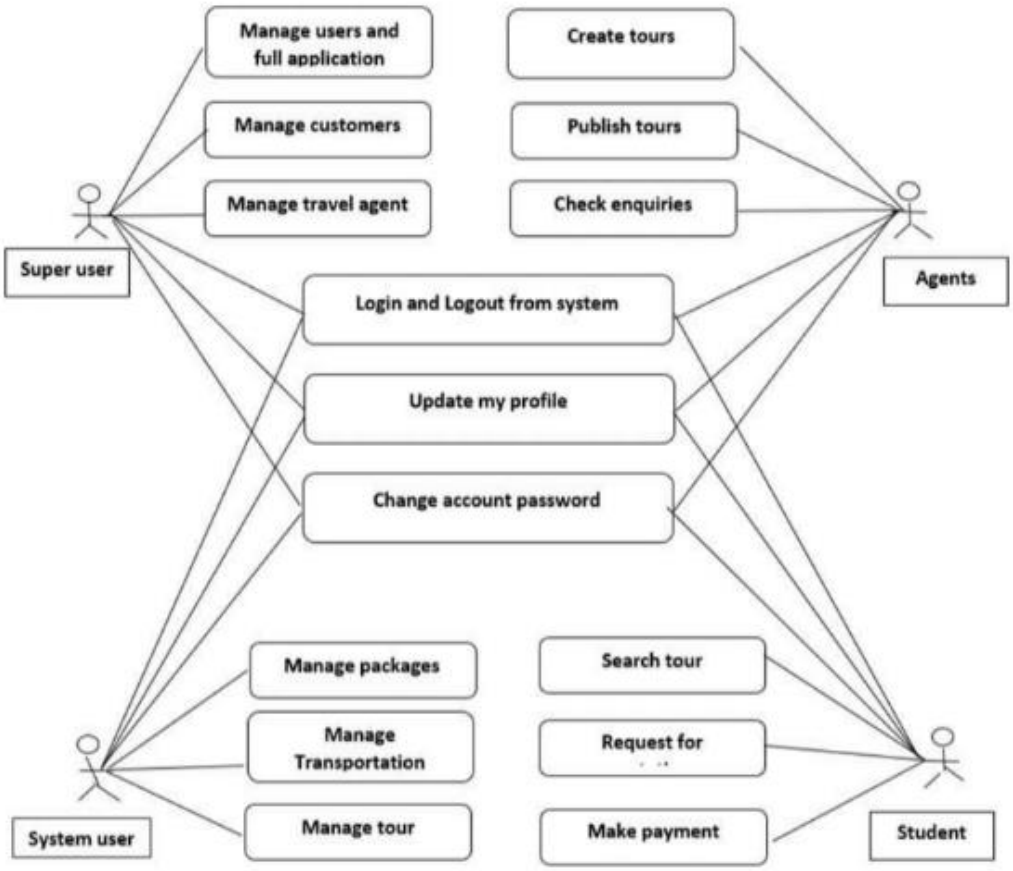

Fig 3.3.1 use case diagram

3.4 Class diagram

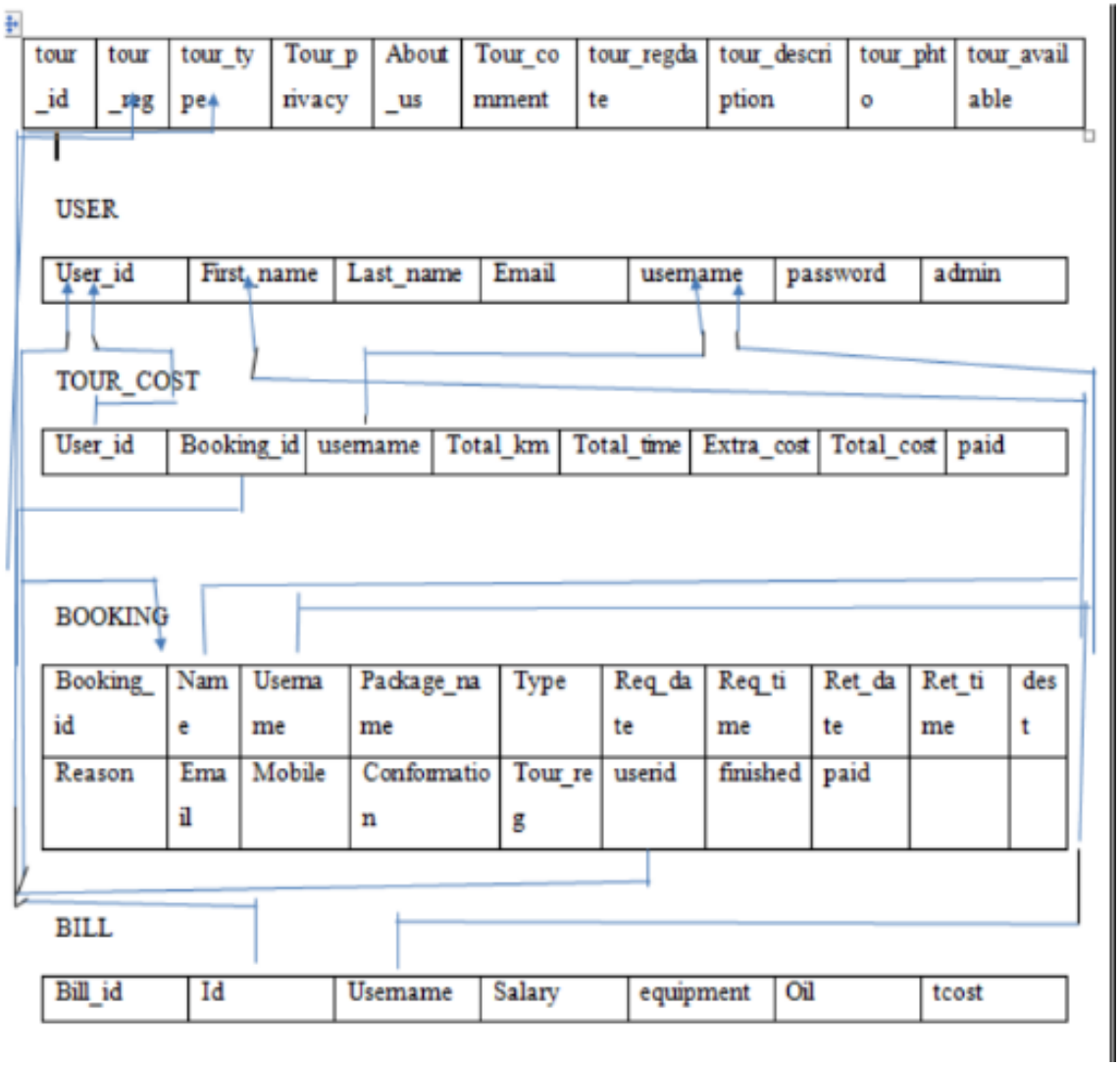

Fig 3.3.2 Class diagram

4.Methodology

- Requirements Gathering and Analysis

The first step in developing RoamHub involves gathering and analysing requirements to establish a clear understanding of user needs and business objectives. This phase includes conducting interviews, surveys, and workshops with stakeholders such as travellers, tourism experts, and administrators. The goal is to document both functional requirements (such as user registration, booking management, and content updates) and non-functional requirements (including performance, security, and scalability).

- System Design and Architecture Planning

Once requirements are defined, the next step is to design a robust system architecture that supports RoamHub's current and future needs. This phase involves creating detailed system diagrams and architectural blueprints. For the frontend, the focus is on designing an intuitive and responsive user interface (UI) using HTML, CSS, JavaScript, and possibly modern frameworks like React.js or Angular. Backend system design includes selecting appropriate server-side technologies (such as PHP with Laravel or Symfony) and planning database schemas (using MySQL or PostgreSQL) to efficiently manage user data, bookings, and administrative operations.

- Frontend Development

With the system architecture defined, frontend development begins to implement the UI design envisioned in the previous phase. Developers build frontend components and interfaces that provide a user-friendly experience for travellers navigating RoamHub. Using HTML5, CSS3, and JavaScript libraries like jQuery, they create responsive layouts and interactive elements that enhance usability and engagement. Throughout this phase, usability testing is conducted to gather feedback and iterate on UI improvements based on user interactions and preferences.

- Backend Development and Database Implementation

Simultaneously with frontend development, backend development focuses on building the server-side logic and implementing the designed database architecture. Developers use PHP programming language integrated with frameworks such as Laravel or Symfony to handle backend operations like user authentication, booking management, and content updates. Database administrators work on setting up and optimizing MySQL or PostgreSQL databases to ensure efficient data storage, retrieval, and management.

- Middleware Integration and External Services

Integration with external services and APIs plays a crucial role in expanding RoamHub's functionality and providing additional features to users. Middleware components are developed to integrate payment gateways (such as PayPal or Stripe) for secure online transactions, mapping services (like Google Maps API) for displaying travel destinations and routes, and social media platforms to facilitate user engagement and sharing.

- Iterative Improvement and Feedback Loop

RoamHub adopts an iterative development approach, continuously gathering user feedback, monitoring system performance, and iterating based on insights and emerging technologies. Feedback mechanisms solicit input from users on features, usability improvements, and overall satisfaction. Analytics data provides valuable insights into user behavior, preferences, and business performance, guiding iterative updates and enhancements. Planned future iterations focus on expanding functionality, integrating new technologies, and maintaining RoamHub's competitiveness in the dynamic tourism management industry.

The methodology for developing RoamHub involves a systematic approach to ensure the creation of a robust tourism management platform. It begins with thorough requirements gathering and analysis, encompassing stakeholder interviews and competitive analysis to define functional and non-functional requirements. The subsequent phase focuses on designing a scalable architecture, including frontend and backend server systems, employing technologies like PHP and MySQL for efficient data management. Integration with external APIs and services enhances functionality, while stringent security measures, including encryption and authentication protocols, safeguard user data and system integrity. Cloud deployment on platforms like AWS ensures scalability and reliability, supported by containerization and orchestration tools for streamlined operations. Rigorous testing, including unit, integration, and performance testing, validates system functionality and responsiveness. Continuous deployment, monitoring, and maintenance ensure ongoing reliability and security, complemented by comprehensive documentation and user training to support administrators and optimize user experience. Iterative feedback loops and future enhancements drive continuous improvement to meet evolving user needs and technological advancements.

5.Implementation

Step 1: Setting Up the Development Environment

i. Install a Local Server:

- Use XAMPP to set up a local server environment with Apache, PHP, and MySQL.
- Download and install XAMPP from Apache Friends .

ii. Create Project Directory:

- Create a directory named `RoamHub` in the `htdocs` folder in XAMPP.

Step 2: Database Setup

i. Start MySQL Server:

- Launch the XAMPP control panel and start the MySQL server.

ii. Create Database and Tables:

- Open phpMyAdmin (usually accessible at http://localhost/phpmyadmin).
- Create a new database called roamhub.

Create the necessary tables such as users, packages, bookings, inquiries, etc.

Sample code of database:

Database: `tms`
Table structure for table `admin`

```
CREATE TABLE `admin` (
  `id` int(11) NOT NULL,
  `UserName` varchar(100) DEFAULT NULL,
  `Password` varchar(100) DEFAULT NULL,
  `updationDate` timestamp NULL DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
```

Dumping data for table `admin`

```
INSERT INTO `admin` (`id`, `UserName`, `Password`, `updationDate`) VALUES
(1, 'admin', 'f925916e2754e5e03f75dd58a5733251', '2024-01-10 11:18:49');
```

Table structure for table `tblbooking`

```
CREATE TABLE `tblbooking` (
  `BookingId` int(11) NOT NULL,
  `PackageId` int(11) DEFAULT NULL,
  `UserEmail` varchar(100) DEFAULT NULL,
```

```
  `FromDate` varchar(100) DEFAULT NULL,
  `ToDate` varchar(100) DEFAULT NULL,
  `Comment` mediumtext DEFAULT NULL,
  `RegDate` timestamp NULL DEFAULT current_timestamp(),
  `status` int(11) DEFAULT NULL,
  `CancelledBy` varchar(5) DEFAULT NULL,
  `UpdationDate` timestamp NULL DEFAULT NULL ON UPDATE current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
 Dumping data for table `tblbooking`

INSERT INTO `tblbooking` (`BookingId`, `PackageId`, `UserEmail`, `FromDate`, `ToDate`, `Comment`, `RegDate`, `status`, `CancelledBy`, `UpdationDate`) VALUES
(1, 1, 'test@gmail.com', '2020-07-11', '2020-07-18', 'I want this package.', '2024-01-16 06:38:36', 2, 'u', '2024-01-30 05:18:29'),
(2, 2, 'test@gmail.com', '2020-07-10', '2020-07-13', 'There is some discount', '2024-01-17 06:43:25', 1, NULL, '2024-01-31 01:21:17'),
(3, 4, 'abir@gmail.com', '2020-07-11', '2020-07-15', 'When I get conformation', '2024-01-17 06:44:39', 2, 'a', '2024-01-30 05:18:52'),
(4, 2, 'test@gmail.com', '2024-02-02', '2024-02-08', 'NA', '2024-01-31 02:03:27', 0, NULL, NULL);
 Table structure for table `tblenquiry`

CREATE TABLE `tblenquiry` (
  `id` int(11) NOT NULL,
  `FullName` varchar(100) DEFAULT NULL,
  `EmailId` varchar(100) DEFAULT NULL,
  `MobileNumber` char(10) DEFAULT NULL,
  `Subject` varchar(100) DEFAULT NULL,
  `Description` mediumtext DEFAULT NULL,
  `PostingDate` timestamp NULL DEFAULT current_timestamp(),
  `Status` int(1) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
Dumping data for table `tblenquiry`

INSERT INTO `tblenquiry` (`id`, `FullName`, `EmailId`, `MobileNumber`, `Subject`, `Description`, `PostingDate`, `Status`) VALUES
(1, 'Jone Paaire', 'jone@gmail.com', '4646464646', 'Enquiry for Manali Trip', 'Kindly provide me more offer.', '2024-01-16 06:30:32', 1),
(2, 'Kishan Twaerea', 'kishan@gmail.com', '6797947987', 'Enquiry', 'Any Offer for North Trip', '2024-01-18 06:31:38', NULL),(3, 'Jacaob', 'Jai@gmail.com', '1646689721', 'Any offer for North', 'Any Offer for north', '2024-01-19 06:32:41', 1);

 Table structure for table `tblissues`
```

```
CREATE TABLE `tblissues` (
  `id` int(11) NOT NULL,
  `UserEmail` varchar(100) DEFAULT NULL,
  `Issue` varchar(100) DEFAULT NULL,
  `Description` mediumtext DEFAULT NULL,
  `PostingDate` timestamp NULL DEFAULT current_timestamp(),
  `AdminRemark` mediumtext DEFAULT NULL,
  `AdminremarkDate` timestamp NULL DEFAULT NULL ON UPDATE current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
Dumping data for table `tblissues`

INSERT INTO `tblissues` (`id`, `UserEmail`, `Issue`, `Description`, `PostingDate`, `AdminRemark`, `AdminremarkDate`) VALUES
(6, 'test@gmail.com', 'Booking Issues', 'I am not able to book package', '2024-01-20 06:36:03', 'Ok, We will fix the issue asap', '2024-01-30 05:20:03'),
(7, 'test@gmail.com', 'Refund', 'I want my refund', '2024-01-25 06:56:29', NULL, '2024-01-30 05:20:14');
Table structure for table `tblpages`

CREATE TABLE `tblpages` (
  `id` int(11) NOT NULL,
  `type` varchar(255) DEFAULT '',
  `detail` longtext DEFAULT NULL
) ENGINE=MyISAM DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
Dumping data for table `tblpages`

INSERT INTO `tblpages` (`id`, `type`, `detail`) VALUES
(1, 'terms', '                                                    <p
align=\"justify\"><font size=\"2\"><strong><font color=\"#990000\">(1) ACCEPTANCE OF TERMS</font><br><br></strong>Welcome to Yahoo! India. 1Yahoo Web Services India Private Limited Yahoo\", \"we\" or \"us\" as the case may be) provides the Service (defined below) to you, subject to the following Terms of Service (\"TOS\"), which may be updated by us from time to time without notice to you. You can review the most current version of the TOS at any time at: <a href=\"http://in.docs.yahoo.com/info/terms/\">http://in.docs.yahoo.com/info/terms/</a>. In addition, when using particular Yahoo services or third party services, you and Yahoo shall be subject to any posted guidelines or rules applicable to such services which may be posted from time to time. All such guidelines or rules, which maybe subject to change, are hereby incorporated by reference into the TOS. In most cases the guides and rules are specific to a particular part of the Service and will assist you in applying the TOS to that part, but to the extent of any inconsistency between the TOS and any guide or rule, the TOS will prevail. We may also offer other services from time to time that are governed by different Terms of Services, in which case the TOS do not apply to such other services if and to the extent
```

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repellendus. Temporibus autem quibusdam et aut officiis debitis aut rerum necessitatibus saepe eveniet ut et voluptates repudiandae sint et molestiae non recusandae. Itaque earum rerum hic tenetur a sapiente delectus, ut aut reiciendis voluptatibus maiores alias consequatur aut perferendis doloribus asperiores repellat\r\n'),(3, 'Aboutus', ' <span style=\"color: rgb(0, 0, 0); font-family: Georgia; font-size: 15px; text-align: justify; font-weight: bold;\">Welcome to Tourism Management System!!! <span style=\"font-family: "courier new";\"><span style=\"color: rgb(0, 0, 0); font-size: 15px; text-align: justify;\">Since then, our courteous and committed team members have always ensured a pleasant and enjoyable tour for the clients. This arduous effort has enabled TMS to be recognized as a dependable Travel Solutions provider with three offices Delhi.<span style=\"color: rgb(80, 80, 80); font-size: 13px;\"> We have got packages to suit the discerning traveler\'s budget and savor. Book your dream vacation online. Supported quality and proposals of our travel consultants, we have a tendency to welcome you to decide on from holidays packages and customize them according to your plan.\r\n')(11,'contact','<span style=\"color: rgb(0, 0, 0); font-family: "Open Sans", Arial, sans-serif; font-size: 14px; text-align: justify;\">Address------ J-890 Dwarka House New Delhi-110096');

Table structure for table `tbltourpackages`

```
CREATE TABLE `tbltourpackages` (
  `PackageId` int(11) NOT NULL,
  `PackageName` varchar(200) DEFAULT NULL,
  `PackageType` varchar(150) DEFAULT NULL,
  `PackageLocation` varchar(100) DEFAULT NULL,
  `PackagePrice` int(11) DEFAULT NULL,
  `PackageFetures` varchar(255) DEFAULT NULL,
  `PackageDetails` mediumtext DEFAULT NULL,
  `PackageImage` varchar(100) DEFAULT NULL,
  `Creationdate` timestamp NULL DEFAULT current_timestamp(),
  `UpdationDate` timestamp NULL DEFAULT NULL ON UPDATE current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
```

Dumping data for table `tbltourpackages`

INSERT INTO `tbltourpackages` (`PackageId`, `PackageName`, `PackageType`, `PackageLocation`, `PackagePrice`, `PackageFetures`, `PackageDetails`, `PackageImage`, `Creationdate`, `UpdationDate`) VALUES
(1, 'Swiss Paris Delight Premium 2020 (Group Package)', 'Group Package', 'Paris and Switzerland', 6000, ' Round trip Economy class airfare valid for the duration of the holiday - Airport taxes - Accommodation for 3 nights in Paris and 3 nights in scenic Switzerland - Enjoy continental breakfasts every morning - Enjoy 5 Indian dinners in Mainland Europe - Exp', 'Pick this holiday for a relaxing vacation in Paris and Switzerland. Your tour embarks from Paris. Enjoy an excursion to popular attractions like the iconic Eiffel Tower. After experiencing the beautiful city, you will drive past mustard fields through Burgundy to reach Switzerland. While

there, you can opt for a tour to Interlaken and then to the Trummelbach Falls. Photostop at Zurich Lake and a cable car ride to Mt. Titlis are the main highlights of the holiday.', '1581490262_2_1.jpg', '2024-07-15 05:21:58', '2024-01-30 05:20:49'),
(2, 'Bhutan Holidays - Thimphu and Paro Special', 'Family Package', 'Bhutan', 3000, 'Free Wi-fi, Free Breakfast, Free Pickup and drop facility ', 'Visit to Tiger\'s Nest Monastery | Complimentary services of a Professional Guide', 'BHUTAN-THIMPU-PARO-PUNAKHA-TOUR-6N-7D.jpeg', '2024-07-15 05:21:58', '2024-01-30 05:20:56'),
(3, 'Soulmate Special Bali - 7 Nights', 'Couple Package', 'Indonesia(Bali)', 5000, 'Free Pickup and drop facility, Free Wi-fi , Free professional guide', 'Airport transfers by private car | Popular Sightseeing included | Suitable for Couple and budget travelers', '1583140977_5_11.jpg', '2024-07-15 05:21:58', '2024-01-30 05:20:56'),
(4, 'Kerala - A Lovers Paradise - Value Added', 'Family Package', 'Kerala', 1000, 'Free Wi-fi, Free pick up and drop facility,', 'Visit Matupetty Dam, tea plantation and a spice garden | View sunset in Kanyakumari | AC Car at disposal for 2hrs extra (once per city)', 'images (2).jpg', '2024-07-15 05:21:58', '2024-01-30 05:20:56'),
(5, 'Short Trip To Dubai', 'Family', 'Dubai', 4500, 'Free pick up and drop facility, Free Wi-fi, Free breakfast', 'A Holiday Package for the entire family.', 'unnamed.jpg', '2024-07-15 05:21:58', '2024-01-30 05:20:56'),
(6, 'Sikkim Delight with Darjeeling (customizable)', 'Group', 'Sikkim', 3500, 'Free Breakfast, Free Pick up drop facility', 'Changu Lake and New Baba Mandir excursion | View the sunrise from Tiger Hill | Get Blessed at the famous Rumtek Monastery', 'download (2).jpg', '2024-07-15 05:21:58', '2024-01-30 05:20:56'),
(7, '6 Days in Guwahati and Shillong With Cherrapunji Excursion', 'Family Package', 'Guwahati(Sikkim)', 4500, 'Breakfast, Accommodation » Pick-up » Drop » Sightseeing', 'After arrival at Guwahati airport meet our representative & proceed for Shillong. Shillong is the capital and hill station of Meghalaya, also known as Abode of Cloud, one of the smallest states in India. En route visit Barapani lake. By afternoon reach at Shillong. Check in to the hotel. Evening is leisure. Spent time as you want. Visit Police bazar. Overnight stay at Shillong.', '95995.jpg', '2024-07-15 05:21:58', '2024-01-30 05:20:56'),
(8, 'Grand Week in North East - Lachung, Lachen and Gangtok', 'Domestic Packages', 'Sikkim', 4500, 'Free Breakfast, Free Wi-fi', 'Changu Lakeand New Baba Mandir excursion | Yumthang Valley tour | Gurudongmar Lake excursion | Night stay in Lachen', 'download (3).jpg', '2024-07-15 05:21:58', '2024-01-30 05:20:56'),
(9, 'Gangtok & Darjeeling Holiday (Without Flights)', 'Family Package', 'Sikkim', 1000, 'Free Wi-fi, Free pickup and drop facility', 'Ideal tour for Family | Sightseeing in Gangtok and Darjeeling | Full day excursion to idyllic Changu Lake | Visit to Ghoom Monastery', '1540382781_shutterstock_661867435.jpg.jpg', '2024-07-15 05:21:58', '2024-01-30 05:20:56')

Table structure for table `tblusers`

```
CREATE TABLE `tblusers` (
  `id` int(11) NOT NULL,
  `FullName` varchar(100) DEFAULT NULL,
```

```
  `MobileNumber` char(10) DEFAULT NULL,
  `EmailId` varchar(70) DEFAULT NULL,
  `Password` varchar(100) DEFAULT NULL,
  `RegDate` timestamp NULL DEFAULT current_timestamp(),
  `UpdationDate` timestamp NULL DEFAULT NULL ON UPDATE current_timestamp()
) ENGINE=InnoDB DEFAULT CHARSET=latin1 COLLATE=latin1_swedish_ci;
 Dumping data for table `tblusers`

INSERT INTO `tblusers` (`id`, `FullName`, `MobileNumber`, `EmailId`, `Password`, `RegDate`, `UpdationDate`) VALUES
(1,'ManjuSrivatav','4456464654','manju@gmail.com','202cb962ac59075b964b07152d234b70', '2024-01-16 06:33:20', '2024-01-31 02:00:40'),
(2, 'Kishan', '9871987979', 'kishan@gmail.com', '202cb962ac59075b964b07152d234b70', '2024-01-16 06:33:20', '2024-01-31 02:00:48'),
(3,'Salvi Chandra', '1398756416', 'salvi@gmail.com', '202cb962ac59075b964b07152d234b70', '2024-01-16 06:33:20', '2024-01-31 02:00:48'),
(4, 'Abir', '4789756456', 'abir@gmail.com', '202cb962ac59075b964b07152d234b70', '2024-01-16 06:33:20', '2024-01-31 02:00:48'),
(5, 'Test', '1987894654', 'test@gmail.com', 'f925916e2754e5e03f75dd58a5733251', '2024-01-16 06:33:20', '2024-01-31 02:00:48');
Indexes for dumped tables
 Indexes for table `admin`

ALTER TABLE `admin`
  ADD PRIMARY KEY (`id`);
 Indexes for table `tblbooking`

ALTER TABLE `tblbooking`
  ADD PRIMARY KEY (`BookingId`);
 Indexes for table `tblenquiry`

ALTER TABLE `tblenquiry`
  ADD PRIMARY KEY (`id`);
 Indexes for table `tblissues`


ALTER TABLE `tblissues`
  ADD PRIMARY KEY (`id`);
 Indexes for table `tblpages`

ALTER TABLE `tblpages`
  ADD PRIMARY KEY (`id`);
 Indexes for table `tbltourpackages`
```

```
ALTER TABLE `tbltourpackages`
  ADD PRIMARY KEY (`PackageId`);
 Indexes for table `tblusers`

ALTER TABLE `tblusers`
  ADD PRIMARY KEY (`id`),
  ADD KEY `EmailId` (`EmailId`),
  ADD KEY `EmailId_2` (`EmailId`);

 AUTO_INCREMENT for dumped tables
 AUTO_INCREMENT for table `admin`

ALTER TABLE `admin`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=2;
 AUTO_INCREMENT for table `tblbooking`

ALTER TABLE `tblbooking`
  MODIFY `BookingId` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=5;
 AUTO_INCREMENT for table `tblenquiry`

ALTER TABLE `tblenquiry`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=5;
 AUTO_INCREMENT for table `tblissues`


ALTER TABLE `tblissues`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=10;
 AUTO_INCREMENT for table `tblpages`

ALTER TABLE `tblpages`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=22;
 AUTO_INCREMENT for table `tbltourpackages`

ALTER TABLE `tbltourpackages`
  MODIFY `PackageId` int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=11;
 AUTO_INCREMENT for table `tblusers`

ALTER TABLE `tblusers`
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT, AUTO_INCREMENT=8;
COMMIT;

/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
```

```
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
```

Step 3: Frontend Development

i. HTML and CSS:

- Style the pages using CSS. Create a style.css file and link it to your HTML files.

JavaScript and jQuery:

ii. Use JavaScript and jQuery for dynamic content and form validation.

- Create a scripts.js file and link it to your HTML files.
-

Step 4: Backend Development

i. PHP Scripts:

- Create PHP scripts to handle user registration, login, and other functionalities.

Examples: index.php, login.php, manage-package.php, change-password.php, updateissue.php, check_availability.php, logout.php, dashboard.php etc.

Sample code of Backend setup:

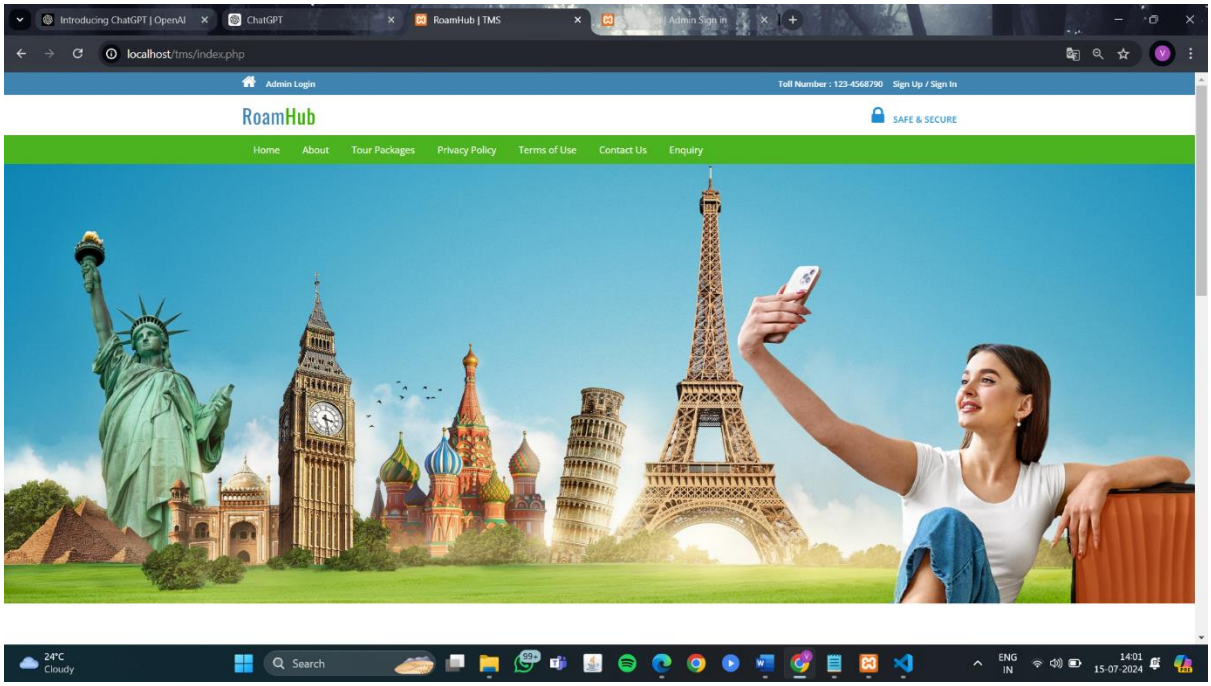
i. index.php

```
<?php
session_start();
include('includes/config.php');
if(isset($_POST['login']))
{
$uname=$_POST['username'];
$password=md5($_POST['password']);
$sql ="SELECT UserName,Password FROM admin WHERE UserName=:uname and Password=:password";
$query= $dbh -> prepare($sql);
$query-> bindParam(':uname', $uname, PDO::PARAM_STR);
$query-> bindParam(':password', $password, PDO::PARAM_STR);
$query-> execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
$_SESSION['alogin']=$_POST['username'];
echo "<script type='text/javascript'> document.location = 'dashboard.php'; </script>";
} else{
        echo "<script>alert('Invalid Details');</script>";
}
}
?>
```

```
<!DOCTYPE HTML>
<html>
<head>
<title>RoamHub | Admin Sign in</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<script type="application/x-javascript"> addEventListener("load", function() { setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); } </script>
<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.min.css" rel='stylesheet' type='text/css' />
<!-- Custom CSS -->
<link href="css/style.css" rel='stylesheet' type='text/css' />
<link rel="stylesheet" href="css/morris.css" type="text/css"/>
<!-- Graph CSS -->
<link href="css/font-awesome.css" rel="stylesheet">
<link rel="stylesheet" href="css/jquery-ui.css">
<!-- jQuery -->
<script src="js/jquery-2.1.4.min.js"></script>
<!-- //jQuery -->
<link href='//fonts.googleapis.com/css?family=Roboto:700,500,300,100italic,100,400' rel='stylesheet' type='text/css'/>
<link href='//fonts.googleapis.com/css?family=Montserrat:400,700' rel='stylesheet' type='text/css'>
<!-- lined-icons -->
<link rel="stylesheet" href="css/icon-font.min.css" type='text/css' />
<!-- //lined-icons -->
</head>
<body>
        <div class="main-wthree">
        <div class="container">
        <div class="sin-w3-agile">
        <h2>Sign In</h2>
        <form  method="post">
        <div class="username">
        <span class="username">Username:</span>
        <input type="text" name="username" class="name" placeholder="" required="">
        <div class="clearfix"></div>
        </div>
        <div>
          <a href="forgot-password.php" style="color: #fff;">Forgot Password</a></div>
            <br>
          <div class="password-agileits">
                span class="username">Password:</span>
```

```
<input type="password" name="password" class="password" placeholder="" required="">
                <div class="clearfix"></div>
                        </div>
                        <div class="login-w3">
                        <input type="submit" class="login" name="login" value="Sign In">
                        </div>
                        <div class="clearfix"></div>
                </form>
                                <div class="back">
                                <a href="../index.php" style="color: #fff;">Back to home</a>
                                </div>

        </div>
        </div>
        </div>
</body>
</html>
```



ii. manage-package.php

```
<?php session_start();
error_reporting(0);
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0){
header('location:index.php');
}else{
// Code for deletion
if($_GET['action']=='delete')
```

```
{
$id=intval($_GET['id']);
//$query=mysqli_query($con,"delete from tbltourpackages where PackageId =:id");
$sql ="delete from tbltourpackages where PackageId =:id";
$query = $dbh -> prepare($sql);
$query -> bindParam(':id', $id, PDO::PARAM_STR);
$query->execute();
 echo "<script>alert('Package deleted.');</script>";
 echo "<script>window.location.href='manage-packages.php'</script>";
}
?>
<!DOCTYPE HTML>
<html>
<head>
<title>RoamHub | admin manage packages</title>
<meta name="viewport" content="width=device-width, initial-scale=1">
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<script type="application/x-javascript"> addEventListener("load", function() {
setTimeout(hideURLbar, 0); }, false); function hideURLbar(){ window.scrollTo(0,1); }
</script>
<!-- Bootstrap Core CSS -->
<link href="css/bootstrap.min.css" rel='stylesheet' type='text/css' />
<!-- Custom CSS -->
<link href="css/style.css" rel='stylesheet' type='text/css' />
<link rel="stylesheet" href="css/morris.css" type="text/css"/>
<!-- Graph CSS -->
<link href="css/font-awesome.css" rel="stylesheet">
<!-- jQuery -->
<script src="js/jquery-2.1.4.min.js"></script>
<!-- //jQuery -->
<!-- tables -->
<link rel="stylesheet" type="text/css" href="css/table-style.css" />
<link rel="stylesheet" type="text/css" href="css/basictable.css" />
<script type="text/javascript" src="js/jquery.basictable.min.js"></script>
<script type="text/javascript">
   $(document).ready(function() {
     $('#table').basictable();
     $('#table-breakpoint').basictable({
       breakpoint: 768
     });
     $('#table-swap-axis').basictable({
     swapAxis: true
     });
     $('#table-force-off').basictable({
```

```
    forceResponsive: false
    });
    $('#table-no-resize').basictable({
    noResize: true
    });
    $('#table-two-axis').basictable();
    $('#table-max-height').basictable({
    tableWrapper: true
    });
   });
</script>
<!-- //tables -->
<link href='//fonts.googleapis.com/css?family=Roboto:700,500,300,100italic,100,400' rel='stylesheet' type='text/css'/>
<link href='//fonts.googleapis.com/css?family=Montserrat:400,700' rel='stylesheet' type='text/css'>
<!-- lined-icons -->
<link rel="stylesheet" href="css/icon-font.min.css" type='text/css' />
<!-- //lined-icons -->
</head>
<body>
  <div class="page-container">
  <!--/content-inner-->
<div class="left-content">
<div class="mother-grid-inner">
<!--header start here-->
<?php include('includes/header.php');?>
<div class="clearfix"> </div>
</div>
<!--heder end here-->
<ol class="breadcrumb">
<li class="breadcrumb-item"><a href="index.html">Home</a><i class="fa fa-angle-right"></i>Manage Packages</li>
          </ol>
<div class="agile-grids">
                    <!-- tables -->
                    <div class="agile-tables">
                    <div class="w3l-table-info">
                  <h2>Manage Packages</h2>
              <table id="table">
                    <thead>
                     <tr>
                    <th>#</th>
                    <th >Name</th>
```

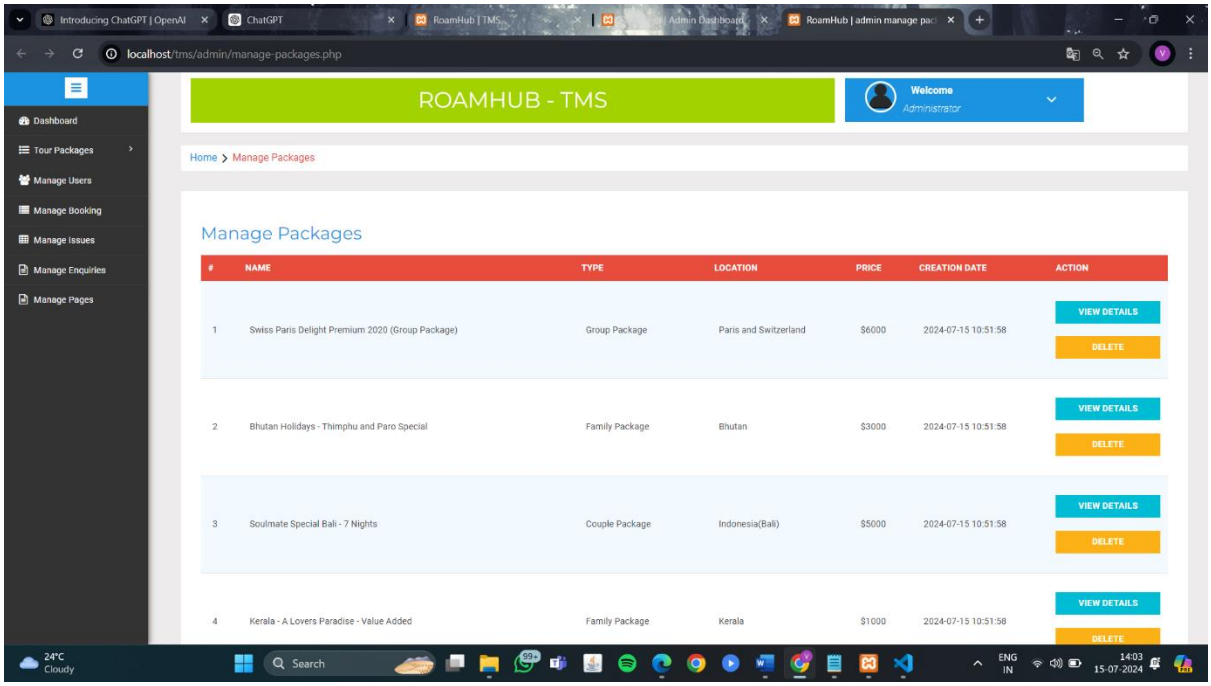
```
                    <th>Type</th>
                    <th>Location</th>
                    <th>Price</th>
                    <th>Creation Date</th>
                    <th>Action</th>
                    </tr>
                    </thead>
                    <tbody>
<?php $sql = "SELECT * from tblTourPackages";
$query = $dbh -> prepare($sql);
//$query -> bindParam(':city', $city, PDO::PARAM_STR);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
$cnt=1;
if($query->rowCount() > 0)
{
foreach($results as $result)
{
?>
 <tr>
        <td><?php echo htmlentities($cnt);?></td>
        <td><?php echo htmlentities($result->PackageName);?></td>
        <td><?php echo htmlentities($result->PackageType);?></td>
        <td><?php echo htmlentities($result->PackageLocation);?></td>
        <td>$<?php echo htmlentities($result->PackagePrice);?></td>
        <td><?php echo htmlentities($result->Creationdate);?></td>
        <td><a href="update-package.php?pid=<?php echo htmlentities($result->PackageId);?>"><button type="button" class="btn btn-primary btn-block">View Details</button></a><br />
<a href="manage-packages.php?action=delete&&id=<?php echo $result->PackageId;?>" onclick="return confirm('Do you really want to delete?')" class="btn btn-danger btn-block">Delete</a>
                                                    </td>
          </tr>
         <?php $cnt=$cnt+1;} }?>
        </tbody>
         </table>
        </div>
        </table>
          </div>
<!-- script-for sticky-nav -->
                    <script>
                    $(document).ready(function() {
                            var navoffeset=$(".header-main").offset().top;
```

```
                $(window).scroll(function(){
                    var scrollpos=$(window).scrollTop();
                    if(scrollpos >=navoffeset){
                        $(".header-main").addClass("fixed");
                    }else{
                        $(".header-main").removeClass("fixed");
                    }});
                });
            </script>
            <!-- /script-for sticky-nav -->
<!--inner block start here-->
<div class="inner-block">

</div>
<!--inner block end here-->
<!--copy rights start here-->
<?php include('includes/footer.php');?>
<!--COPY rights end here-->
</div>
</div>
  <!--//content-inner-->
<!--/sidebar-menu-->
        <?php include('includes/sidebarmenu.php');?>
        <div class="clearfix"></div>
        </div>
        <script>
        var toggle = true;
        $(".sidebar-icon").click(function() {
        if (toggle)
        {
        $(".page-container").addClass("sidebar-collapsed").removeClass("sidebar-collapsed-
back");
      $("#menu span").css({"position":"absolute"});
        }
        else
         {
        $(".page-container").removeClass("sidebar-collapsed").addClass("sidebar-collapsed-
back");
        setTimeout(function() {
      $("#menu span").css({"position":"relative"});
        }, 400);
        }
        toggle = !toggle;
      });
```

```
        </script>
<!--js -->
<script src="js/jquery.nicescroll.js"></script>
<script src="js/scripts.js"></script>
<!-- Bootstrap Core JavaScript -->
   <script src="js/bootstrap.min.js"></script>
   <!-- /Bootstrap Core JavaScript -->

</body>
</html>
<?php } ?>
```



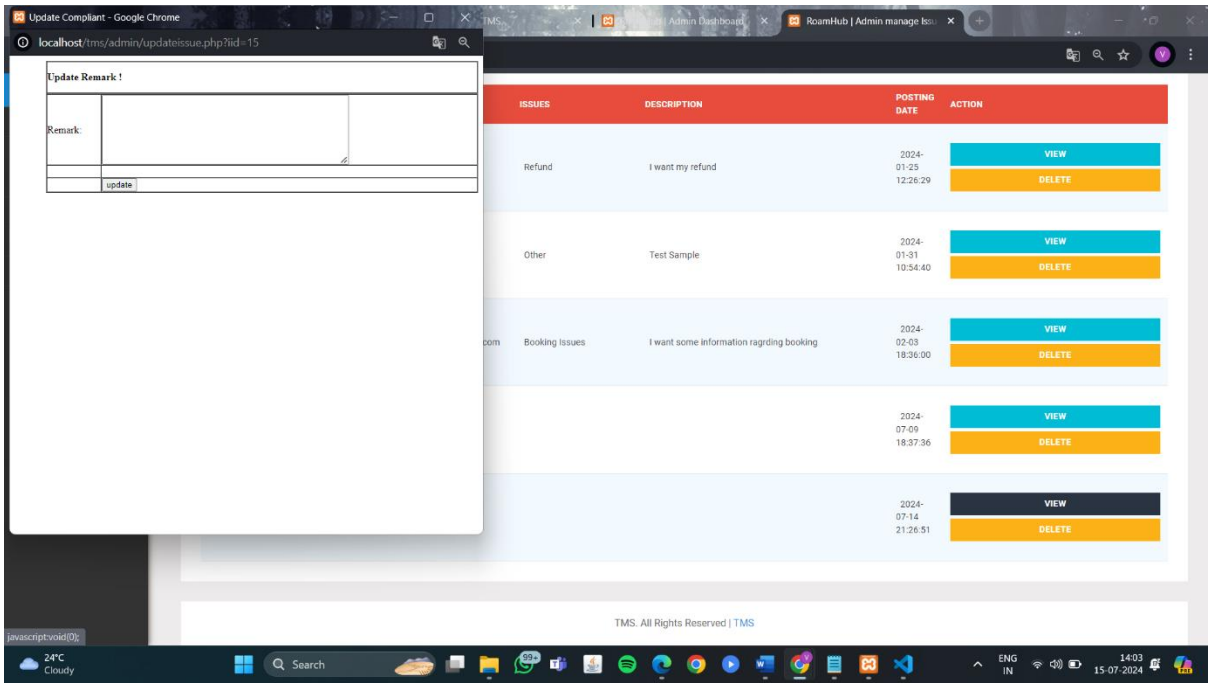
iii. updateissue.php

```
<?php
session_start();
error_reporting(0);
include('includes/config.php');
if(strlen($_SESSION['alogin'])==0)
  {
header('location:index.php');
}
else{
  $iid=intval($_GET['iid']);
if(isset($_POST['submit2']))
  {
```

```
$remark=$_POST['remark'];
$sql = "UPDATE tblissues SET AdminRemark=:remark WHERE  id=:iid";
$query = $dbh->prepare($sql);
$query -> bindParam(':remark',$remark, PDO::PARAM_STR);
$query-> bindParam(':iid',$iid, PDO::PARAM_STR);
$query -> execute();
$msg="Remark  successfully Updated";
}
 ?>
<script language="javascript" type="text/javascript">
function f2()
{
window.close();
}ser
function f3()
{
window.print();
}
</script>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1" />
<title>Update Compliant</title>
<link href="style.css" rel="stylesheet" type="text/css" />
<link href="anuj.css" rel="stylesheet" type="text/css">
</head>
<body>
<div style="margin-left:50px;">
 <form name="updateticket" id="updateticket" method="post">
<table width="100%" border="1" cellspacing="0" cellpadding="0">
<tr height="50">
    <td colspan="2" class="fontkink2" style="padding-left:0px;"><div class="fontpink2"> <b>Update Remark !</b></div></td>
    </tr>
<tr>
    <td colspan="2"> <?php if($error){?><div class="errorWrap"><strong>ERROR</strong>:<?php echo htmlentities($error); ?> </div><?php }
      else if($msg){?><div class="succWrap"><strong>SUCCESS</strong>:<?php echo htmlentities($msg); ?> </div><?php }?></td>
   </tr>
 <tbody>
```

```
<?php
$sql = "SELECT * from tblissues where id=:iid";
$query = $dbh -> prepare($sql);
$query-> bindParam(':iid',$iid, PDO::PARAM_STR);
$query->execute();
$results=$query->fetchAll(PDO::FETCH_OBJ);
if($query->rowCount() > 0)
{
foreach($results as $result)
{
 if($result->AdminRemark=="")
  {
?>
<tr style="">
      <td class="fontkink1" >Remark:</td>
      <td class="fontkink" align="justify" ><span class="fontkink">
        <textarea cols="50" rows="7" name="remark" required="required" ></textarea>
        </span></td>
    </tr>
    <tr>
      <td class="fontkink1"> </td>
      <td  > </td>
    </tr>
    <tr>
      <td class="fontkink">       </td>
      <td  class="fontkink"> <input type="submit" name="submit2"  value="update"   size="40"
style="cursor: pointer;" /></td>
    </tr>
    <?php } else { ?>
     <tr>
      <td class="fontkink1" ><b>Remark:</b></td>
      <td       class="fontkink"       align="justify"       ><?php       echo       htmlentities($result-
>AdminRemark);?></td>
    </tr>
    <tr>
      <td class="fontkink1" ><b>Remark Date:</b></td>
      <td       class="fontkink"       align="justify"       ><?php       echo       htmlentities($result-
>AdminremarkDate);?></td>
    </tr>
    <?php }}}?>
    </table>
 </form>
</div>
</body>
```

</html>
<?php } ?>



- Screenshots

i. User side

Fig 5.1 About us

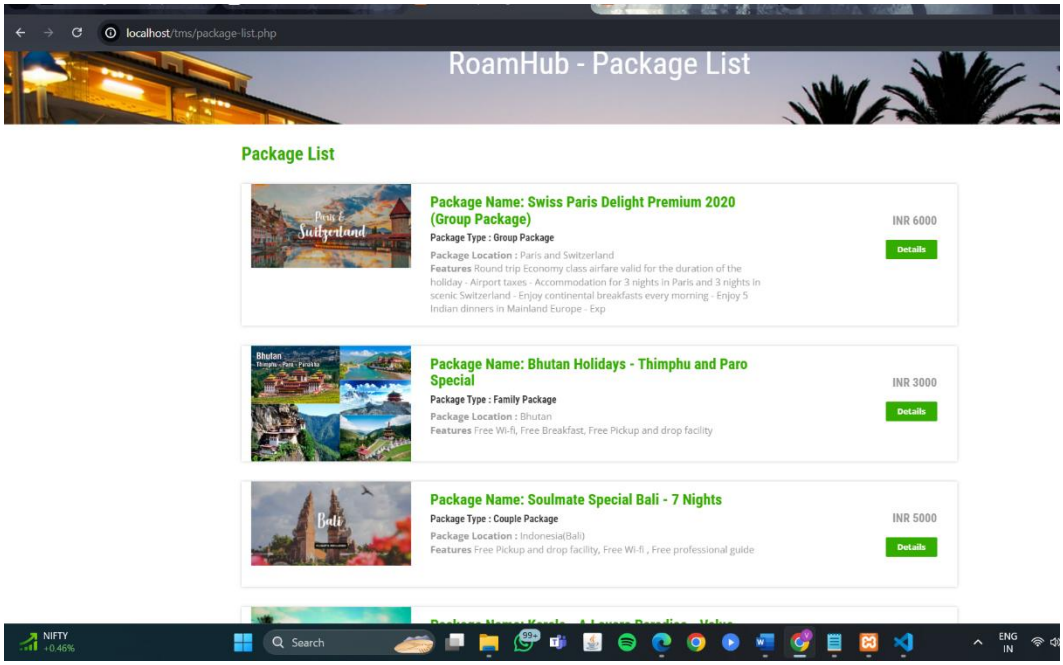


Fig 5.2 package-list

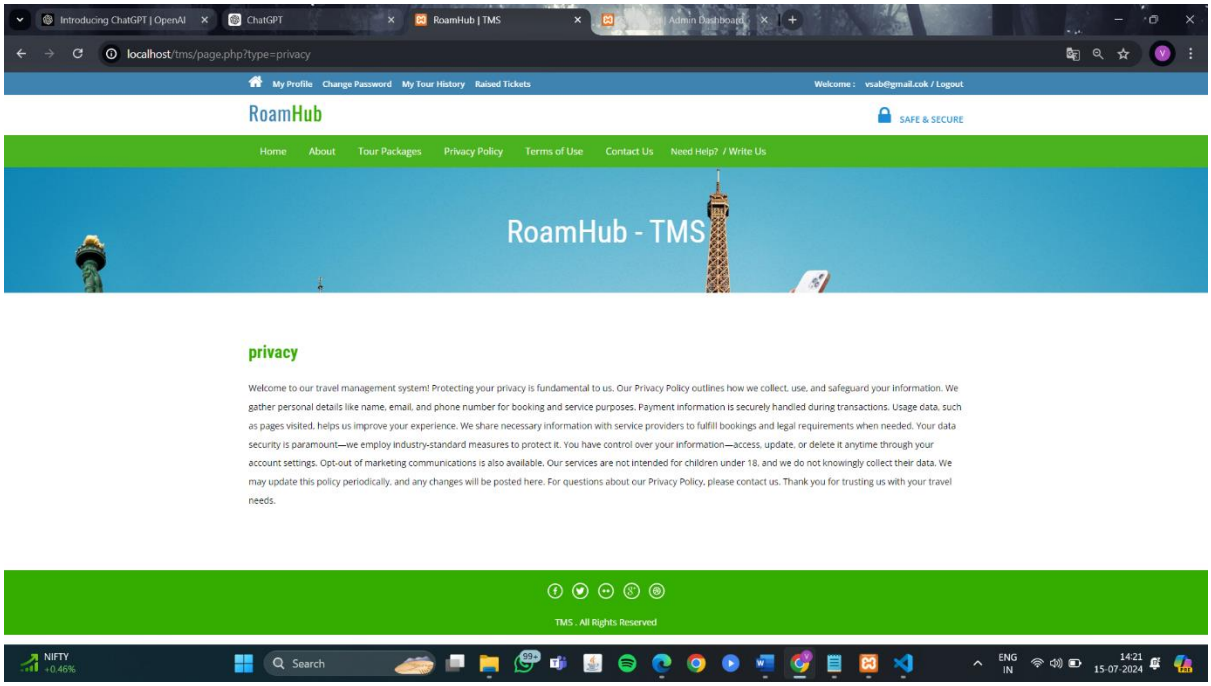


Fig 5.3 Privacy and policy

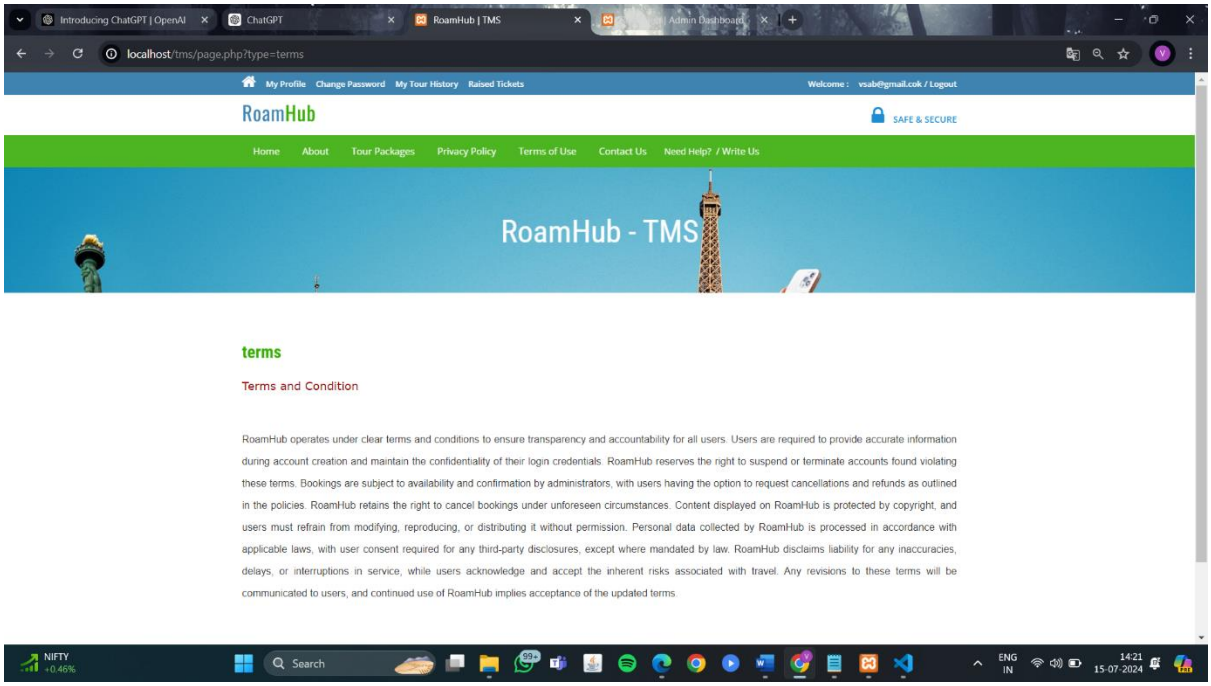


Fig 5.4 Terms and conditions

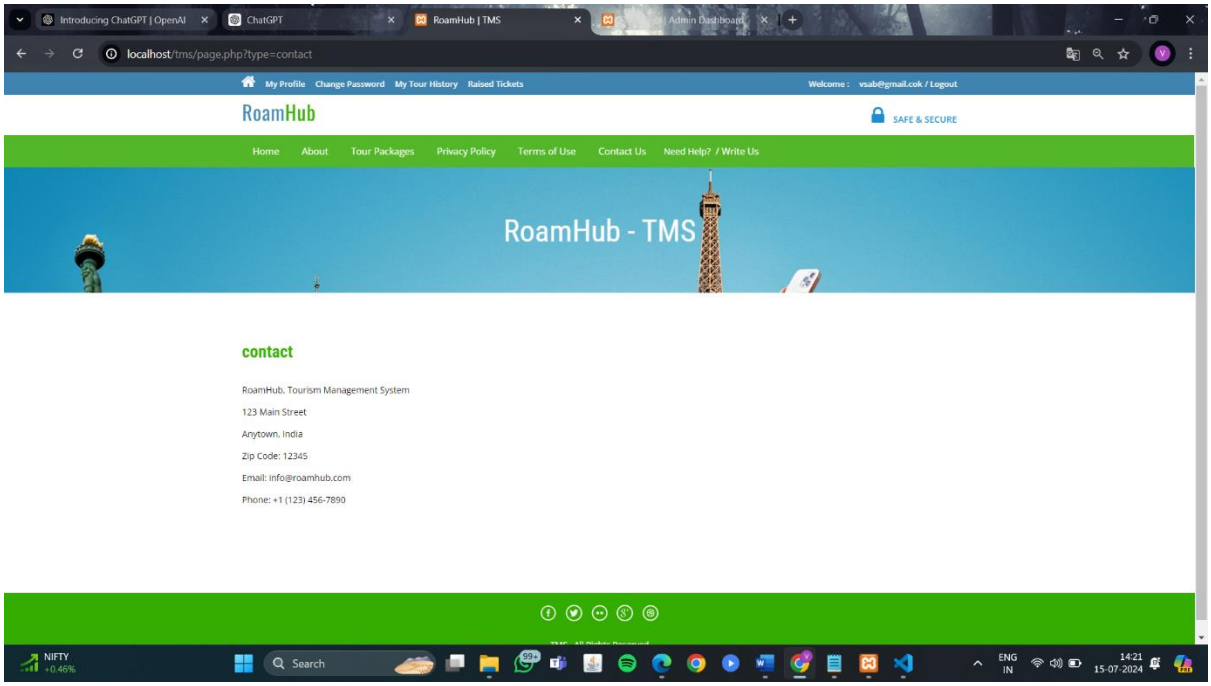


Fig 5.5 Contact us

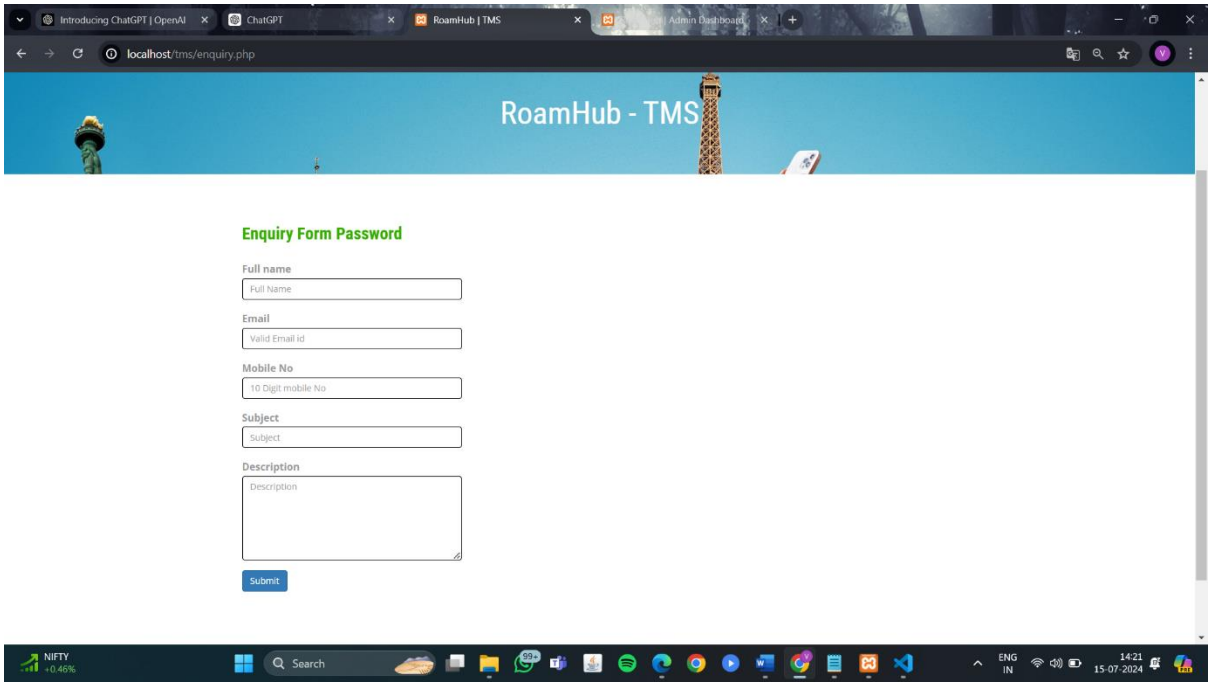


Fig 5.6 Enquiry

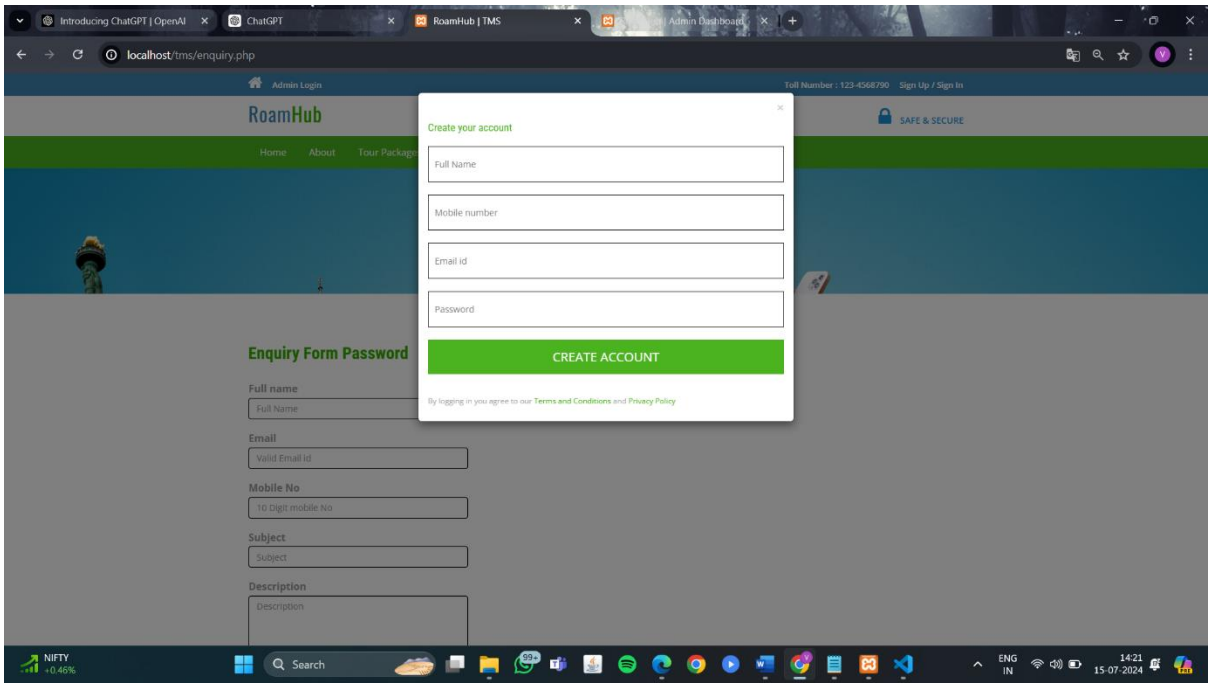


Fig 5.7 Sign up

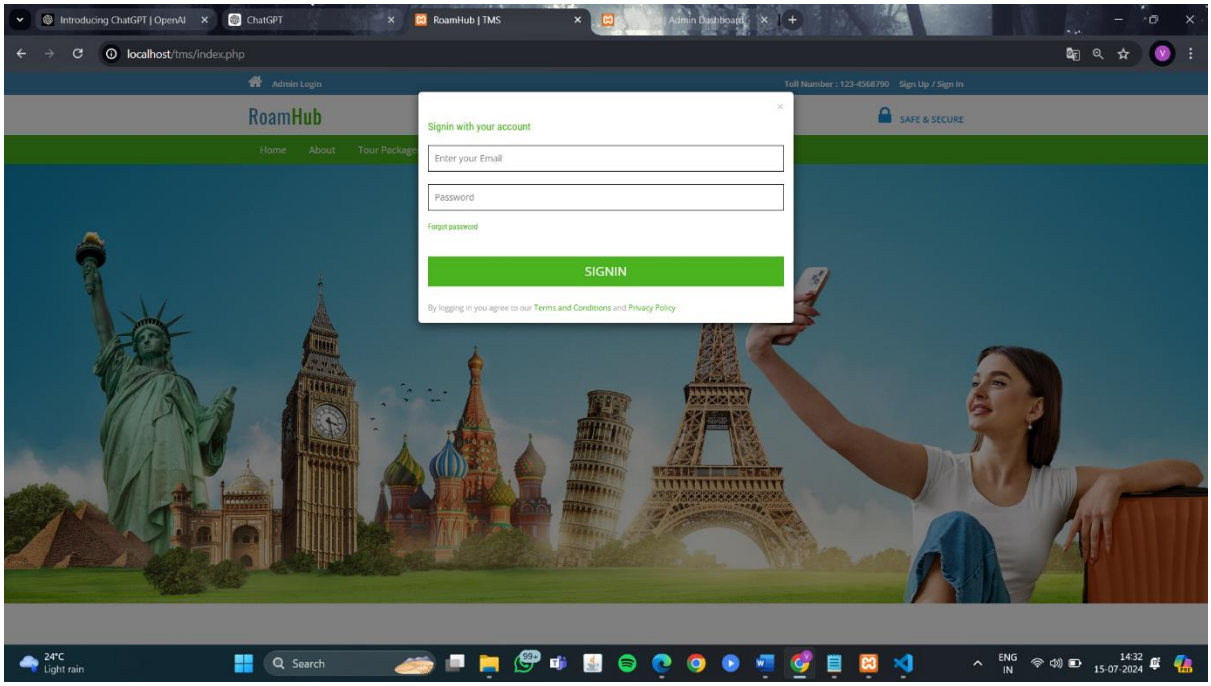


Fig 5.8 Sign in

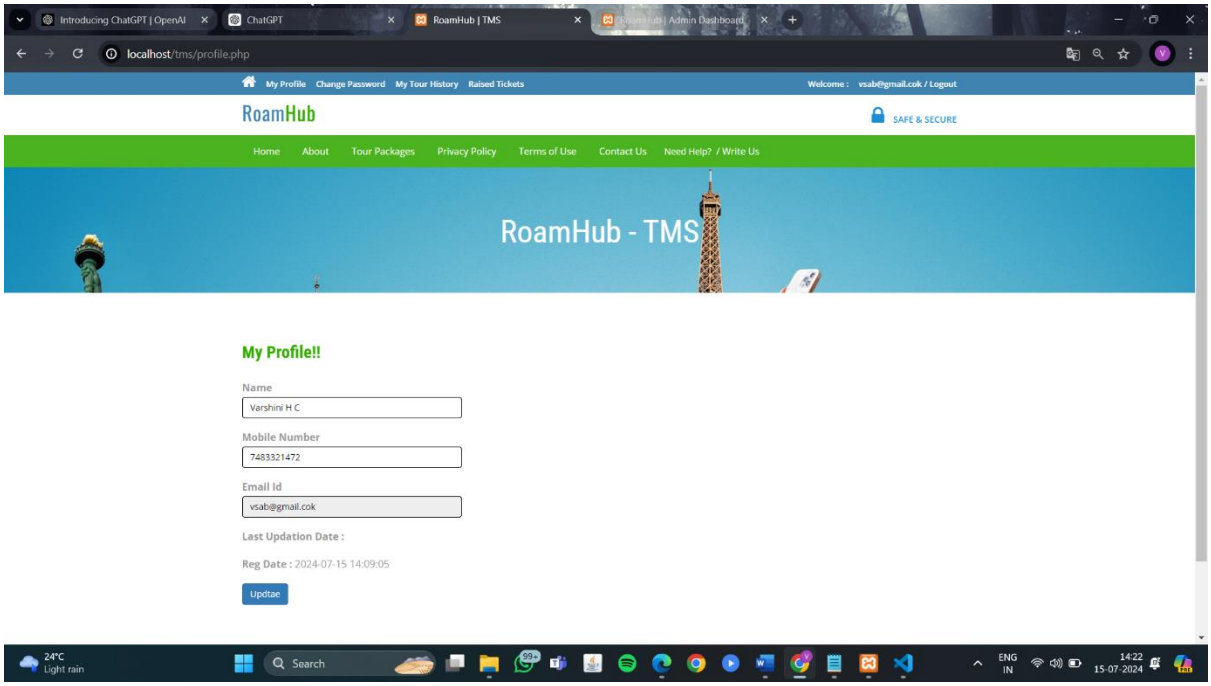


Fig 5.9 My Profile

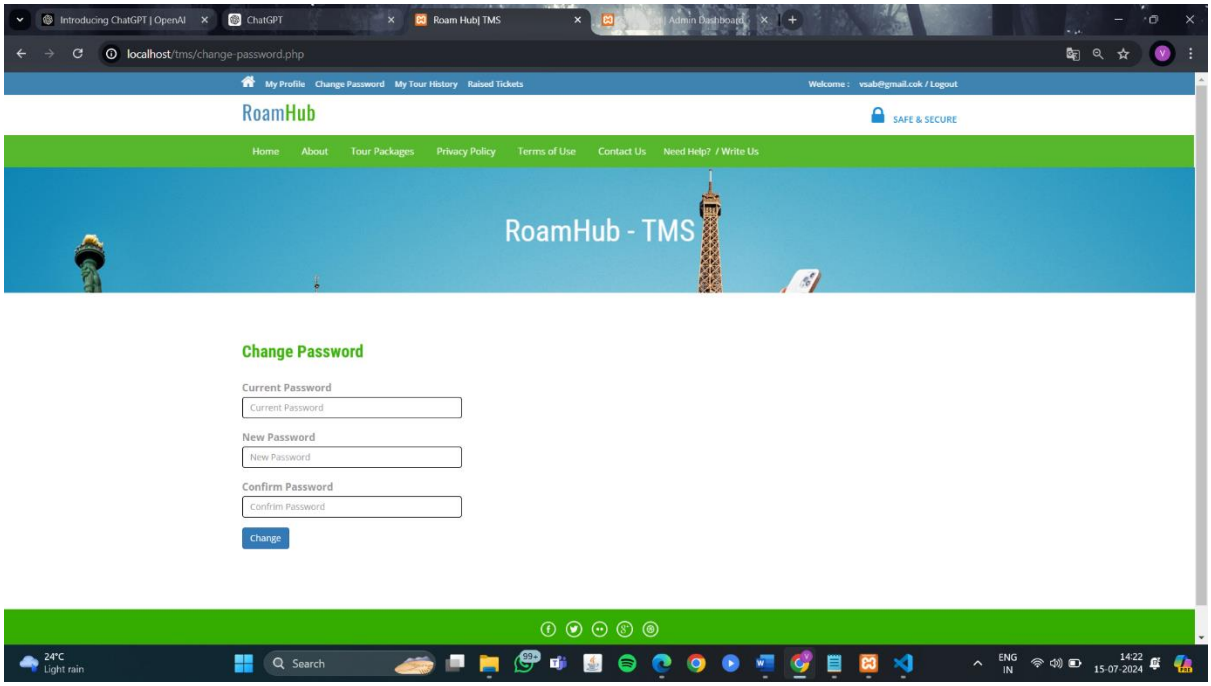


Fig 5.10 Change Password

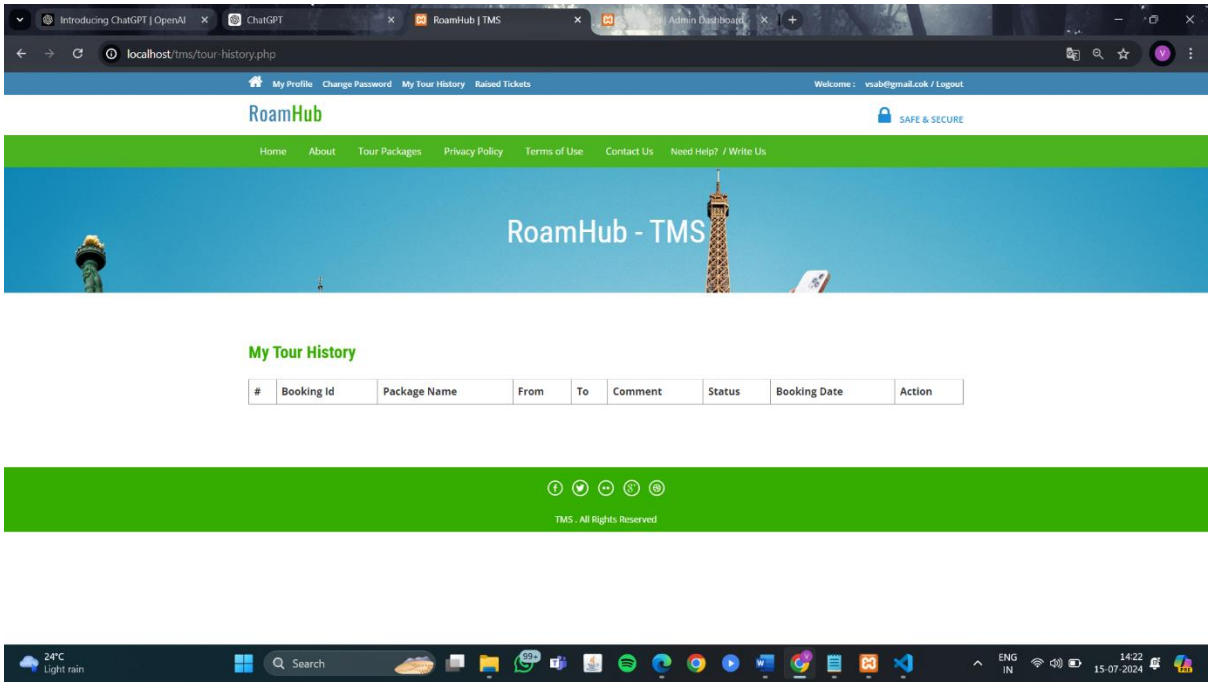


Fig 5.11 My Tour History

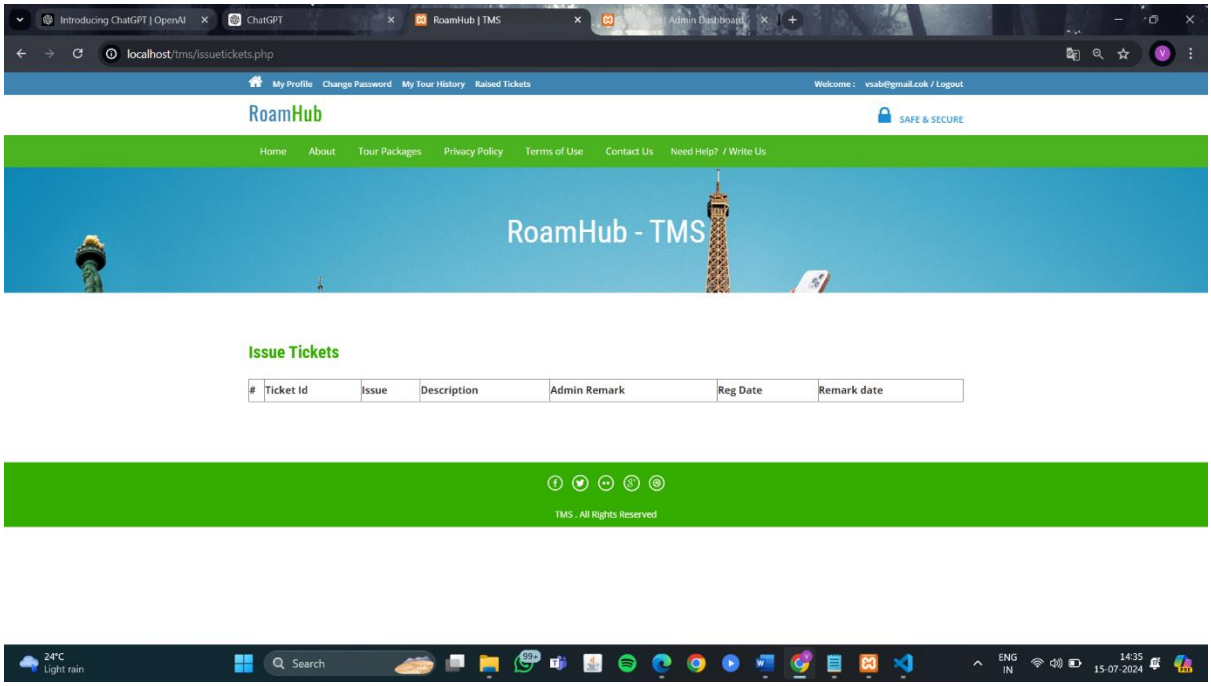


Fig 5.12 Raised Tickets

ii. Admin side

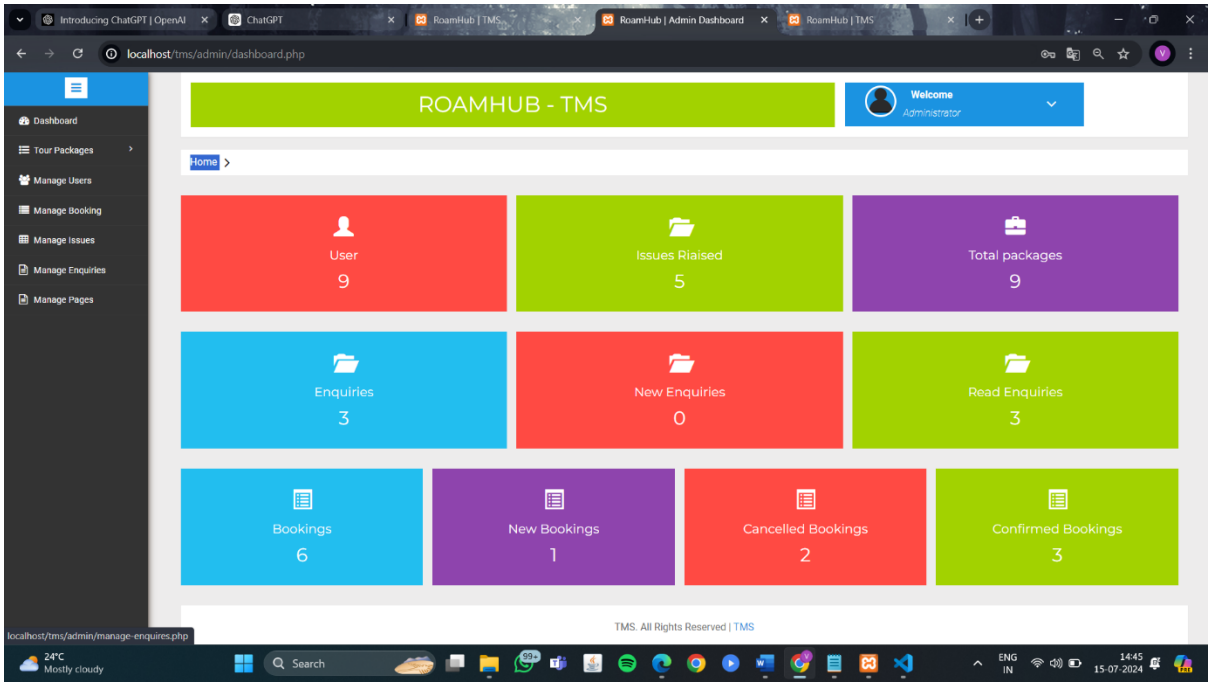


Fig 5.13 Dashboard

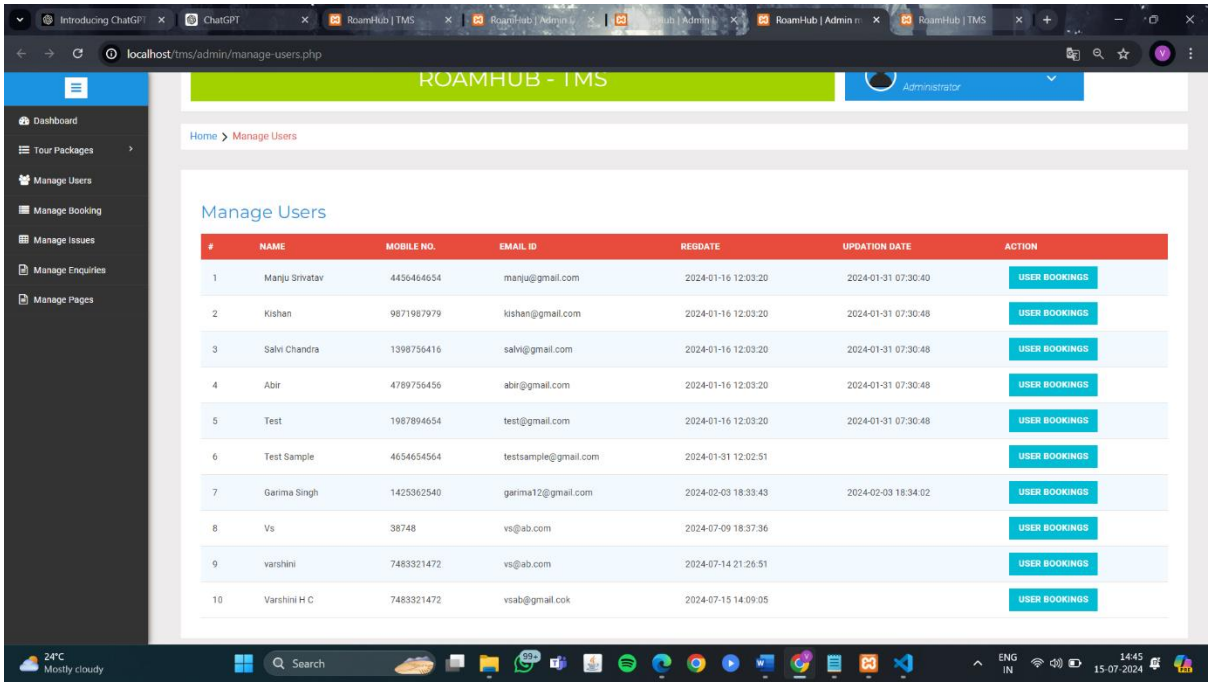


Fig 5.14 manage users

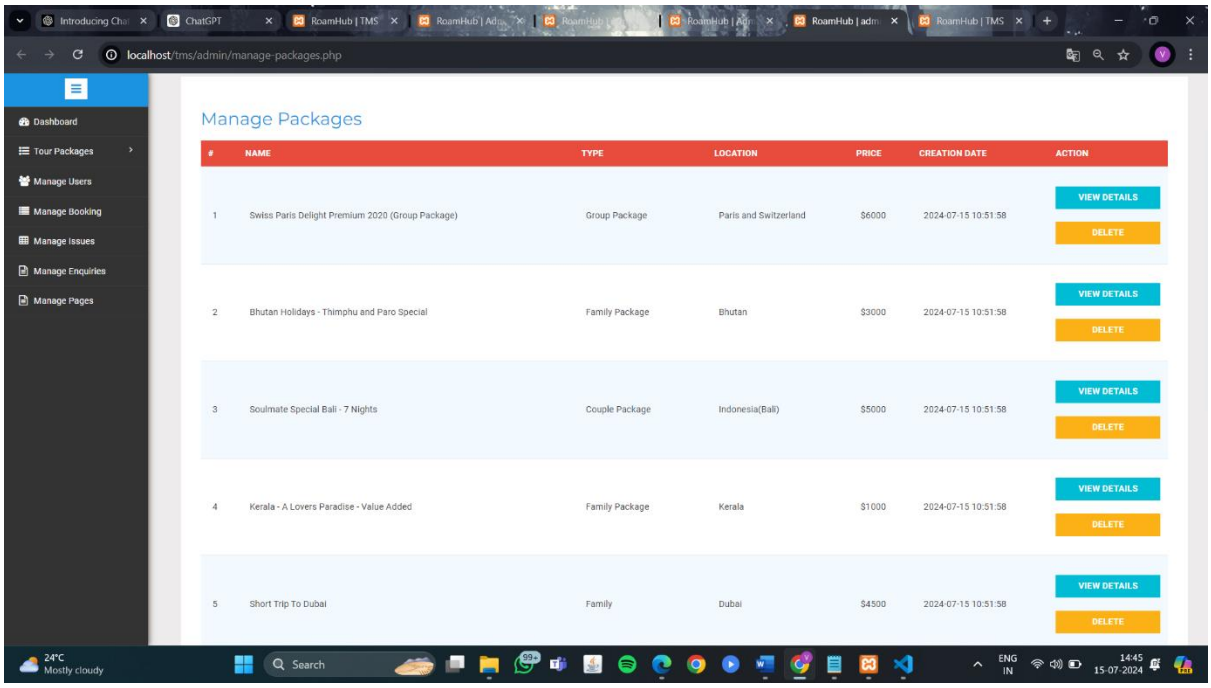


Fig 5.15 manage packages

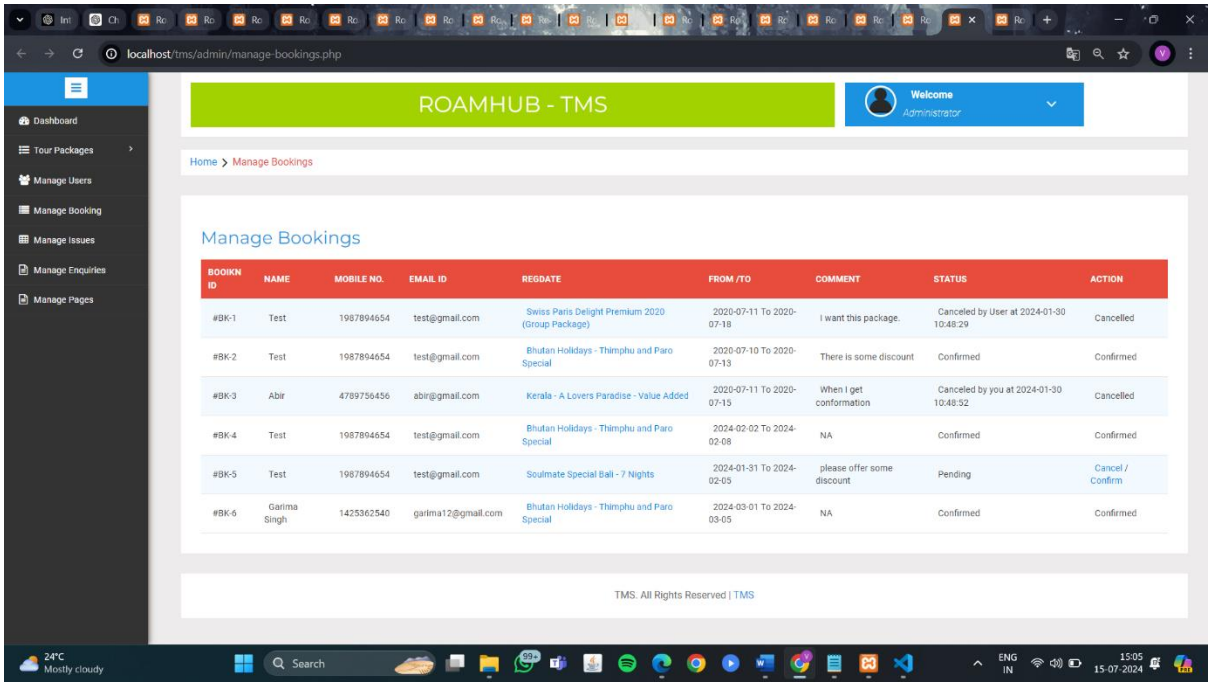


Fig 5.16 manage bookings

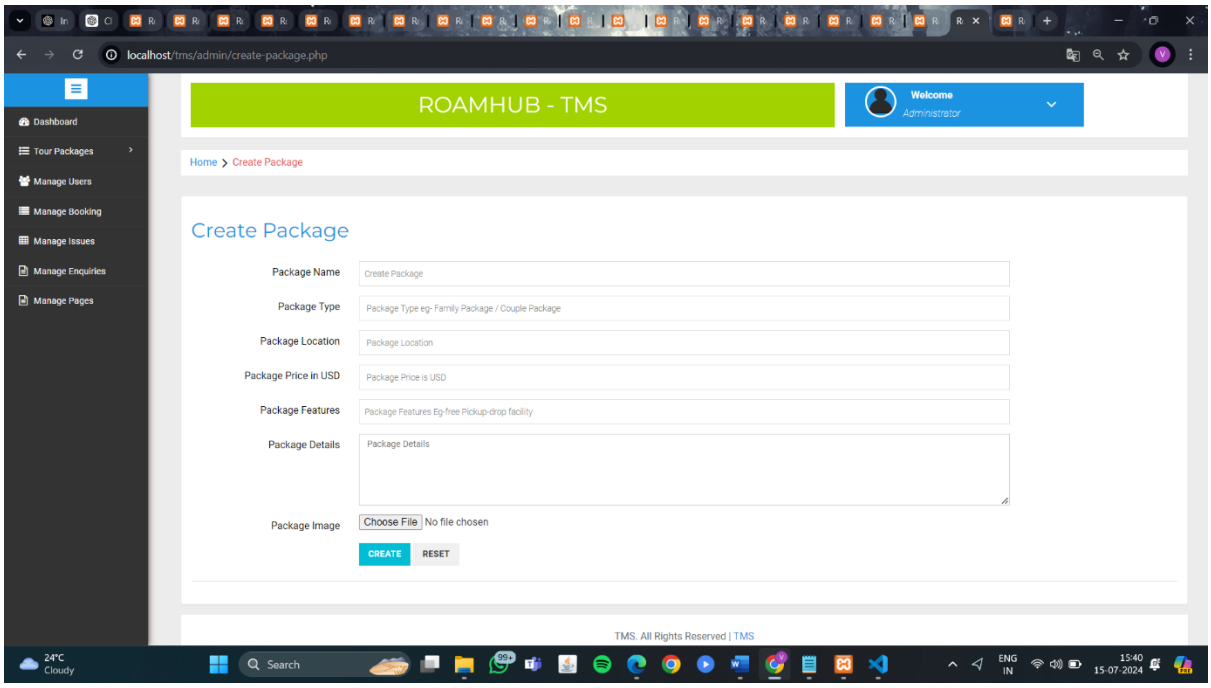


Fig 5.17 Create packages

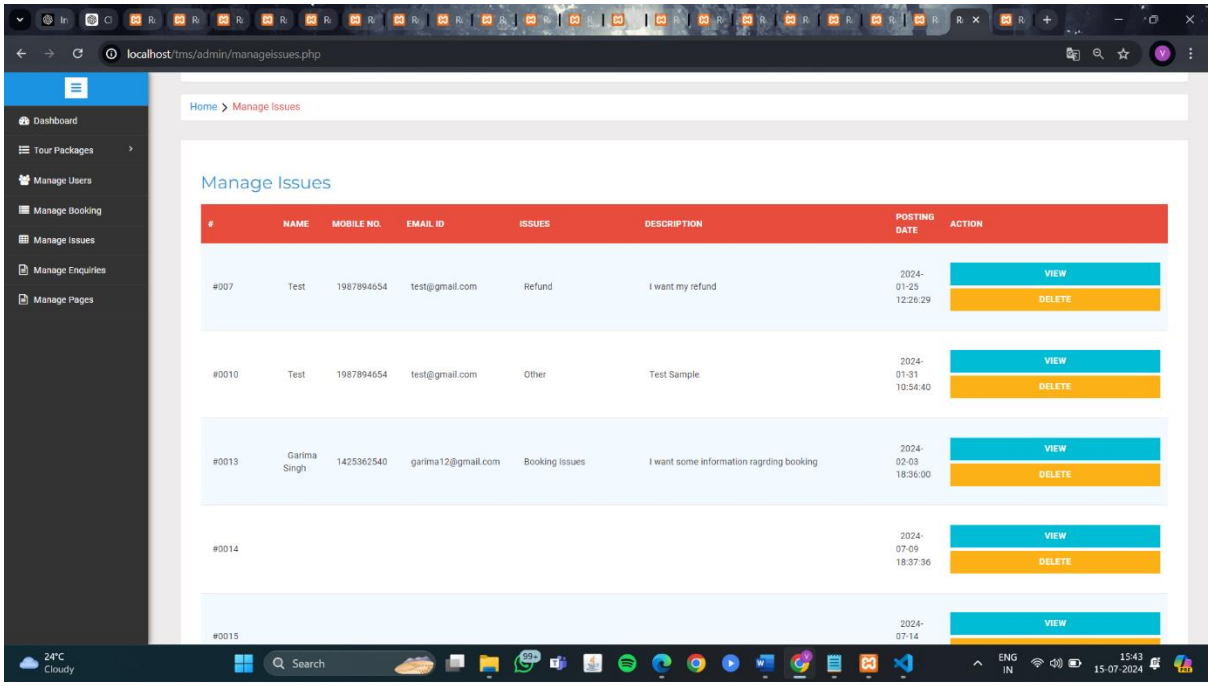


Fig 5.18 manage issue

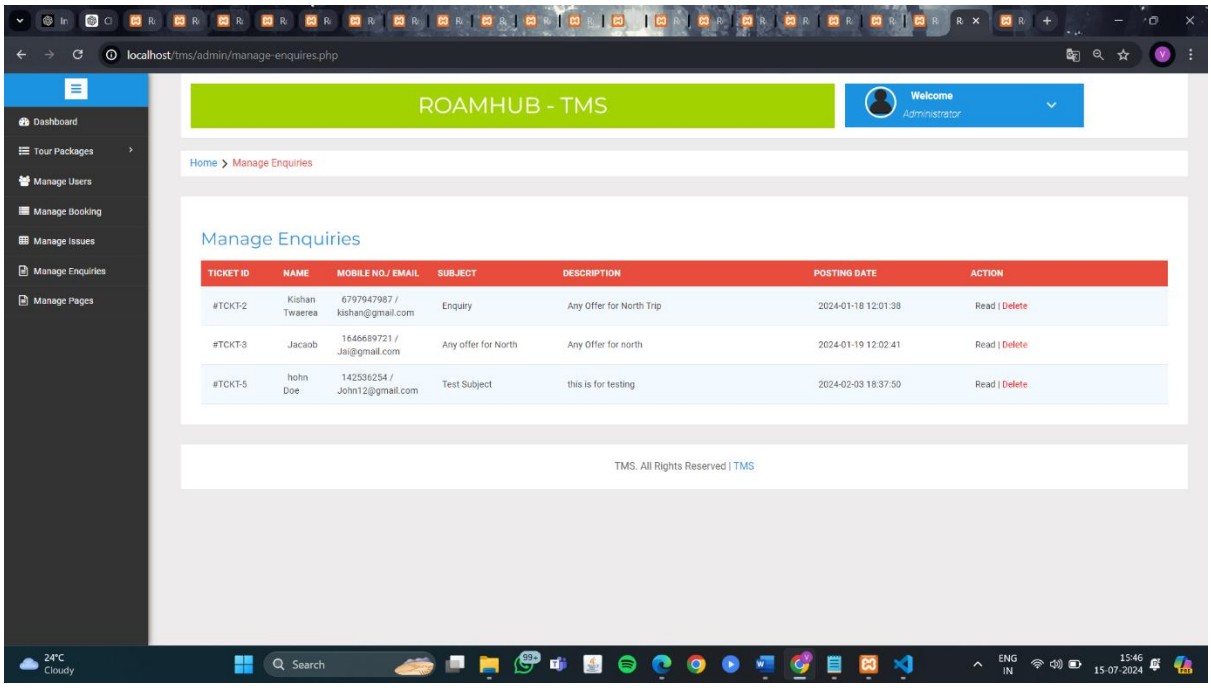


Fig 5.19 manage enquires

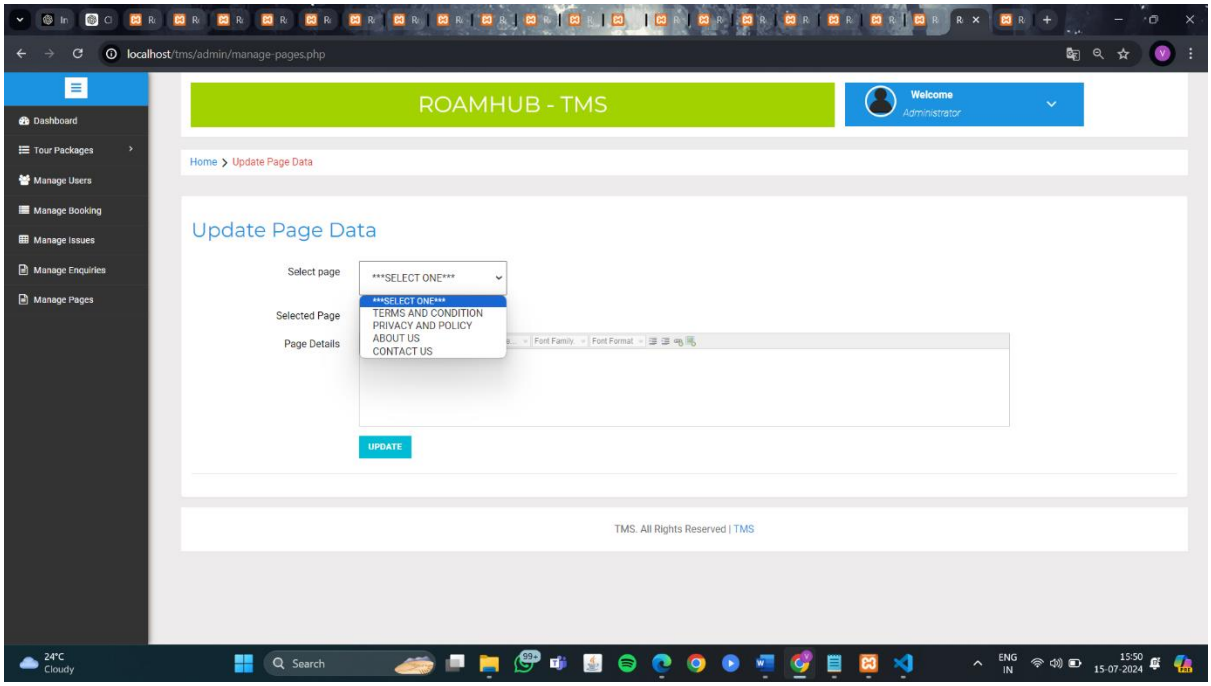


Fig 5.20 manage pages

6.Conclusion

The development and deployment of RoamHub, a comprehensive tourism management system, marks a significant milestone in enhancing the digital experience for both tourists and administrators. This project successfully integrates user-friendly interfaces and robust backend functionalities to provide a seamless experience for managing tourism-related activities.

At the heart of RoamHub's design is a focus on user-centricity. The system offers intuitive and accessible interfaces, allowing users to manage their accounts effortlessly, book travel packages, make inquiries, and track their past and current bookings. Key features include the ability for users to change passwords, update credentials, request refunds and cancellations, and view their inquiry history. These self-service capabilities enhance user autonomy and satisfaction, providing a streamlined and efficient experience.

On the administrative side, RoamHub empowers administrators with comprehensive control over the website. Administrators can easily update key pages such as "Contact Us," "Terms and Conditions," and "Privacy Policy," ensuring that the content remains relevant and up-to-date. Additionally, they can manage bookings, read and respond to inquiries, update or delete packages, and oversee user accounts, providing a high level of operational control and efficiency.

The technical implementation of RoamHub leverages a modern web development stack, including HTML, CSS, JavaScript, jQuery, PHP, and MySQL. This combination ensures a dynamic and responsive web application that can handle the complexities of tourism management.

Throughout the development process, extensive testing and quality assurance measures were taken to ensure reliability and usability. All features were rigorously tested, and user feedback was incorporated to refine and enhance the overall user experience. This thorough approach has resulted in a robust and dependable platform.

The successful deployment of RoamHub to a web hosting service has made the system accessible to users worldwide. To ensure ongoing performance and security, a maintenance plan has been established to monitor the site, address any vulnerabilities, and implement periodic updates. This proactive approach ensures that RoamHub remains a reliable and secure platform for all users.

Looking ahead, there are several exciting future enhancements planned for RoamHub. Mobile optimization will improve the experience for users accessing the site on smartphones and tablets. Additional features, such as personalized recommendations and advanced search filters, will further enrich the user experience. Integrating third-party services will add new dimensions to the platform's functionality. Moreover, developing analytical tools and reporting features will enable administrators to make data-driven decisions, gaining insights into user behavior and booking trends.

In conclusion, RoamHub stands as a testament to the potential of web technologies in transforming the tourism sector. By offering a streamlined and efficient platform for managing tourism activities, RoamHub enhances user satisfaction and operational efficiency. The skills and knowledge gained from this project provide a solid foundation for future endeavors in web development and project management, paving the way for more innovative solutions in the

digital landscape. This project not only meets the immediate needs of tourists and administrators but also sets the stage for ongoing improvements and future growth.