

# **TRAVELO**

## **TRAVEL MANAGEMENT SYSTEM**

**A PROJECT REPORT SUBMITTED IN PARTIAL FULFILMENT  
OF REQUIREMENT  
FOR THE AWARD OF THE DEGREE**

**MASTER OF COMPUTER APPLICATIONS (MCA)**

**OF**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**BY**

**GOURIKRISHNA S**  
**Reg No :22PMC125**



**MARIAN COLLEGE  
KUTTIKKANAM**  
(AUTONOMOUS)

**MAKING COMPLETE**

**Marian College Kuttikkanam Autonomous**

**Peermade, Kerala – 685 531**

**2022**

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**GOURIKRISHNA S**  
**22PMC125**

**Under the guidance of**

**RENY JOSE**

**ASSISTANT PROFESSOR**

**PG Department of Computer Applications**

**Marian College Kuttikkanam Autonomous**



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**2022**

# **PG DEPARTMENT OF COMPUTER APPLICATIONS**

## **Marian College Kuttikkanam Autonomous**

**MAHATMA GANDHI UNIVERSITY, KOTTAYAM**

**KUTTIKKANAM – 685 531, KERALA.**

## **CERTIFICATE**

This is to certify that the project work entitled

**TRAVELO**

is a bonafide record of work done by

**GOURIKRISHNA S**

**22PMC125**

In partial fulfillment of the requirements for the award of Degree of

**MASTER OF COMPUTER APPLICATIONS [MCA]**

During the academic year 2022-2023

**RENY JOSE**

**ASSISTANT PROFESSOR**

PG Department of Computer Applications  
Marian College Kuttikkanam Autonomous

**Mr Win Mathew John**

Head of the Department

PG Department of Computer Applications  
Marian College Kuttikkanam Autonomous

**Examiner**

## **Acknowledgement**

This is to express my deepest gratitude to all those who have extended their timely support and helping hands in completing my project. First of all, I am extremely grateful to “God Almighty”, without whose blessing I could not have been able to successfully complete this project. I express my sincere and profound gratitude to Dr. Ajimon George, Principal, Marian College, Kuttikkanam for providing me with all the facilities during the period of the project. Words are boundless to express our sincere thanks to Mr. Win Mathew John, Head of the Department of Computer Application, for giving me an opportunity to do this project. I express our greatest gratitude to Ms. Reny Jose, Assistant Professor, Marian College, Kuttikkanam for his valuable guidance and encouragement for completing this project. With great enthusiasm we express our gratitude to all the faculty and members of the Computer Application Department for their timely help, support and encouragement.

Finally, I express my deep appreciation to all our friends and family members for the moral support and encouragement they have given to complete this project successfully

Gourikrishna s

## **ABSTRACT**

Travelo is a travel management software is to make the travel easy and comfortable.it is used to book a tour from anywhere in the world by using a single dynamic website. The admin can add the packages and the can add blogs that are related to the packages. The user have the facilities such as signin,book there packages, update there profile, and also they can give suggestions/feedback/complaints to the admin,the user can review there package. Travelo would play a vital role to planning the perfect trip.The system should only user for the vacation trips.the system is made by using python with the framework Django. The front end was designed using HTML, CSS and bootstrap. The database was designed by dbsqlite3

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# **1.INTRODUCTION**



### ***1.1 OVERVIEW OF THE PROJECT***

Travelo is a travel management software is to make the travel easy comfortable.it is used to book a tour from anywhere in the world by using a single dynamic website. The admin can add the packages and the can add blogs that are related to the packages. The user have the facilities such as signin,book there packages, update there profile, and also they can give suggestions/feedback/complaints to the admin.The user can review there package. Travelo would play a vital role to planning the perfect trip. The system should only user for the vacation trips. The system is made by using python with the framework Django.

The front end was designed using HTML, CSS and bootstrap. The database was designed by dbsqlite3.The admin That used in the system that provided by the Django inbuilt admin.

## **2.SYSTEM STUDY**

### ***2.1 EXISTING SYSTEM***

The existing travel management system requires the customer should visit the travel agencies and then the consult the guides. This manual process involves a significant amount of manpower to manage the bookings. It can be time consuming for passengers, and the information provided about bus routes and schedules is often limited. Online booking and payment options are not available in this system.

1. It is less user-friendly
2. Users must go to the bus station or travel agencies to book tickets.
3. Involves a lot of human efforts for booking management
4. Time-consuming for both passengers and staff
5. Limited information about bus routes and schedules.

### ***2.2 PROPOSED SYSTEM***

The proposed system “Travello” aims to provide a convenient and streamlined process for booking their own packages. It is a software that gives a comfortable way to choose the package. It is a powerful dynamic website. It eliminates the need for physical visits and introduces online booking capabilities.

- It is user-friendly
- Involves less human effort
- Time consuming is less

# **3.FUNCTIONAL REQUIRMENTS**

## FUNCTIONAL REQUIRMENTS

Travelo is divided into two modules:

- 1.user module
- 2.Admin module

User Module details:

### ***1.user can search the project***

The user can search all the packages that are available in the system, to book there package. The user can search the package by using the amount.

### ***2.user can book there package***

The user can Book There package there package through this dynamic system.

### ***3.user can view the package and delete package***

The user can view all the packages that are booked by the user,if the user could not want to add the package to there own wish list they can delete that particular package.

### ***4.Update the profile***

The user can update there profile such as firstname,email,and the lastname

### ***5.review the package:***

The user can review the package and give there own experience through the admin

***6.user can give suggestion/complaints or feedback to the admin:***

This feature provided to the user they can give necessary suggestions/complaints or any feedback to the admin.

Admin details:

***1.Dashbord***

In this admin can see the overview of the travelo.

***2. The packages***

The admin add the packages. The user can view all the packages that are available in the travelo.

***3.Blog***

The admin can add the blog that is the particular description that related to the packages, the user can view this blog.

## **4. NON-FUNCTIONAL REQUIREMENTS**

## **NON-FUNCTIONAL REQUIRMENTS**

### ***a. Reliability***

The reliability of the overall project depends on the reliability of the separate components. The main pillar of reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes, Also the system will be functioning inside a container. Thus, the overall stability of the system depends on the stability of container and its underlying operating system.

### ***b. Availability***

The system should be available at all times, meaning the user can access it using a web browser, only restricted by the down time of the server on which the system runs. A customer friendly system which is accessible for people around the world should work 24 hours. In case of a hardware failure or database corruption, a replacement page will be shown. Also, in case of a hardware failure or database corruption, backup of the database should be retrieved from the server and saved by the Organizer. Then the services will be restarted. It means 24 X 7 availability.

### ***c. Maintainability***

A commercial database is used for maintaining the database and the application server takes care of the site. In case of a failure, a re-initialization of the project will be done. Also, the software design is being done with modularity in mind so that maintainability can be done efficiently

### ***d. Supportability***

The code and supporting modules of the system will be well-documented and easy to understand. Online documentation can in help system requirements.



# **5.FEATURES AND HIGHLIGHTS**

## FEATURES

### 1.Easy Booking

Travelo is a travel management software is to make the travel easy and comfortable. Package booking is one of the major feature that highlight in the travelo. The user can book there own packages from anywhere in the world by using this single dynamic website.it provide a useful friendly booking interface.

### 2.User feedback

This is the second feature that highlight in travelo. The user can give any complaints, suggestions or any feedback that are related to the system.through this the user can also give some travel plannings also.

The advancement in Information Technology and internet penetration has greatly enhanced various business processes and communication between companies (services provider) and their customers of which car rental industry is not left out. This Car Rental System is developed to provide the following services:

- The new system is totally computerized system.
- Customer's registration: A registration portal to hold customer's details, monitor their transaction and used same to offer better and improve services to them.
- Reporting and Analytics: These systems offer reporting and analytics features to provide insights into travel spend, cost savings, compliance rates, and other key metrics. This helps companies monitor travel expenses and optimize travel policies.

## **6. TECHNICAL ASPECTS**

## **Architecture of Project**

### ***1.Presentation Layer***

Templates: HTML templates are used to define the structure and layout of the user interface. Django's template engine allows you to dynamically populate the templates with data.

### ***2.Application Layer***

Controllers: In Django, controllers are implemented as views, which handle the request/response flow and control the overall behavior of the application.

### ***3.Business Logic Layer***

Models: Django's models define the data structure and business logic of the application. Models represent entities like users, bookings, flights, hotels, etc. They handle database operations, such as querying, inserting, updating, and deleting data. Models can also include methods to perform complex business logic.

### ***4.Jazmin***

Django Jazmin is a customizable and modern admin interface for Django applications. It provides an alternative user interface for the Django admin site with a more visually appealing design and additional features. Jazmin aims to enhance the user experience and improve the productivity of developers working with Django.

By installing and configuring django-jazzmin in your Django project, you can customize the admin interface by changing themes, layouts, icons, and other visual elements. It offers features such as responsive design, drag-and-drop sorting, inline editing, and support for various third-party Django packages. To use Django Jazzmin, you typically need to install it using a package manager like pip, add it to your Django project's settings,

and configure it according to your preferences. Here's a basic example of how to install Django Jazzmin using pip:

```
pip install django-jazzmin
```

Once installed, you would need to add 'jazzmin' to the INSTALLED\_APPS list in your Django project's settings.py file:

```
INSTALLED_APPS = [
```

```
... 'jazzmin',
```

```
...
```

```
]
```

Afterwards you can customize Django Jazzmin by modifying the settings in your Django project's settings.py file.

### ***5.Data Access Layer***

Database: Django integrates with various databases, allowing you to define and manage the application's data schema. You can use Django's Object-Relational Mapping(ORM) to interact with the database and perform CRUD operations

### ***6.Database Models***

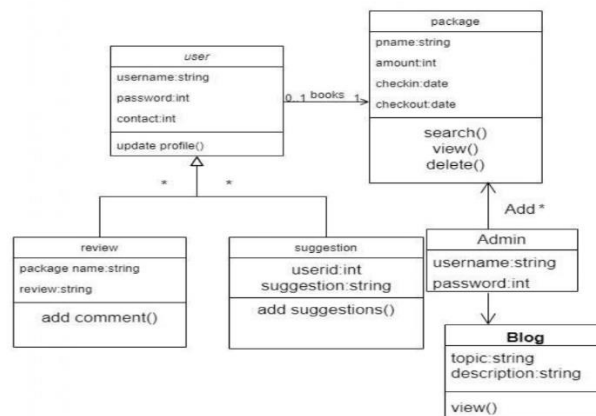
Django's models serve as both business logic entities and database models. They define the structure of the database tables and provide an abstraction layer for interacting with the database .

# DATABASE

## *Class Diagram*

5/24/23, 6:13 PM

Untitled Diagram.drawio

**class diagram for travel management system**<https://drive.google.com/drive/u/1/my-drive>

1/1

# **7. CHALLENGES**

### ***1.user interface***

Creating an innovative and intuitive and user friendly interface is one of the major challenge that faced while doing the project. Ensuring a smooth user experience, from search and booking interface to manage and submitting the details. And also dealing with complex workflow and large dataset.

### ***2. Real-time Availability and Pricing***

Fetching real-time availability and pricing information for rental services from external providers can be challenging. Dealing with rate limits, handling concurrency, and caching strategies are considerations for ensuring timely and accurate information.

### ***3.User Authentication and Authorization***

Travelo typically requires user registration, login, and role- based access control. Implementing secure authentication and authorization mechanisms can be complex, especially when dealing with user roles and permissions.

### ***4.Validation Mechanism***

Implementing validation mechanisms helps ensure that user input is accurate and consistent. You need to validate user data at various stages, such as during registration, booking, or updating information. Validation can include for checking validation in email, phone number, password, pin number etc.

### ***5.Database Mechanism***

Designing an efficient database schema and managing the database operations can be complex. You need to carefully plan the structure of your database, define relationships between entities handle data integrity, and optimize queries for performance.



# **8.FUTURE ENHANCEMENT**

Travel has the largest scope for the future enhancement. Through the further updation of the travelo the user can use the system with more efficiently and effectively and comfortable.

1.The admin can add the travel agents and give some role and permissions to the agent.in future the user should be approach the agents and book there packages.

2.The admin have the facilities to add places also .

3. Payment Gateway Integration :

Integrate popular payment gateways to facilitate secure and convenient online transactions for This would provide users with various payment options and enhance the overall user experience.

4.Advanced Search and Filtering:

Enhance the search functionality by implementing advanced filters based on criteria like price range, travel dates, location preferences, accommodation types, and amenities. This will allow users to find more tailored travel options.

5.Social Media Integration:

Integrate social media platforms into your travel management software, enabling users to share their travel experiences, reviews, and recommendations. This can help create a community around your platform and generate user-generated contents.

## **9.CONCLUSION**

The travelo offers convenient user friendly and a responsive dynamic website. It was developed by using the python Django, and the front end was designed using the html and css the database was designed on dbsqlite3. This system the user can make easy and can access the system anywhere anytime in the world. The user can book their package with more comfortable. The system aims to provide a consolidated resource where customers can conveniently browse and select their preferred travel packages, while maintaining the confidentiality of their personal information. Overall, the proposed system aims to provide a user-friendly interface, efficient booking process, and comprehensive travel solutions for passengers. By automating key operations and leveraging technology, the system reduces manual work and provides a seamless booking experience for the travellers.

**GitHub Repository Of The Project**

[https://github.com/Gourikrishna01/travel\\_management-22pmc125.git](https://github.com/Gourikrishna01/travel_management-22pmc125.git)

# **10.REFERENCES**

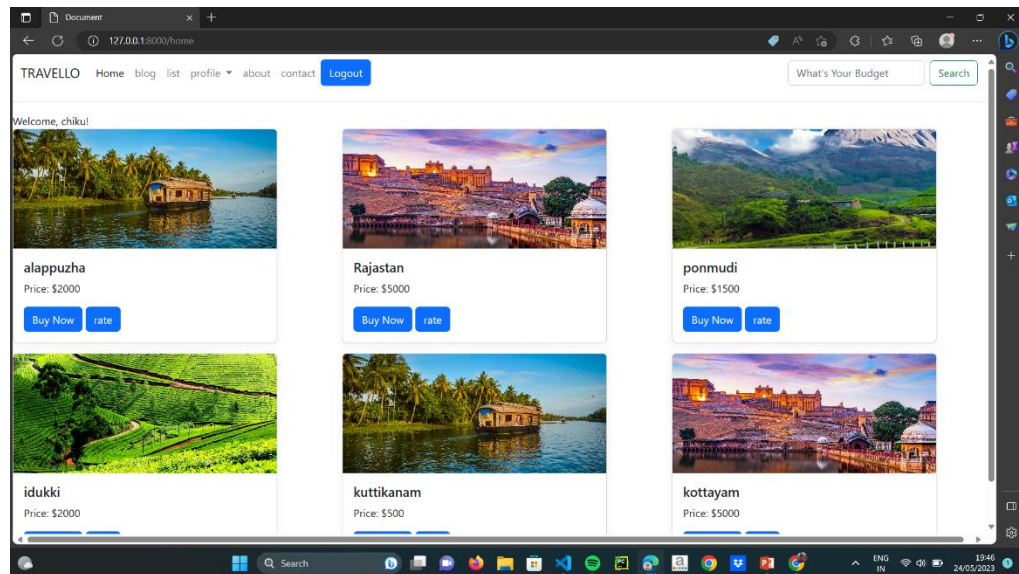
<https://www.travelopro.com/tour-management-system.php>

<https://docs.djangoproject.com/en/4.2/>

<https://getbootstrap.com/>

# **11.SCREENSHOTS**

## 1.Home Page



## 2.User Registration

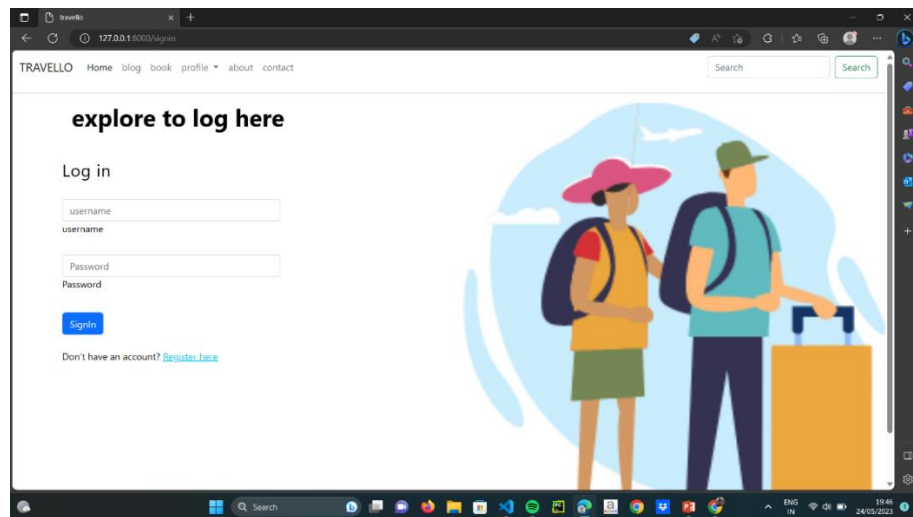
The screenshot shows the 'Registration Info' form on the TRAVELO website. The form is set against a teal background and contains the following input fields:

- Username (placeholder: username)
- First Name (placeholder: First Name)
- Last Name (placeholder: last name)
- email (placeholder: Email)
- address (placeholder: address)
- Contact Number (placeholder: phone number)
- pin (placeholder: pin)

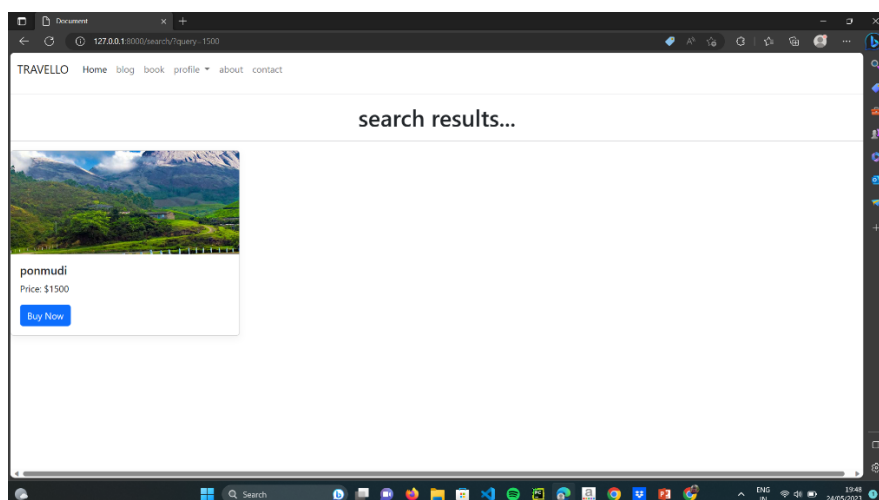
The browser's taskbar at the bottom shows the Windows logo, search bar, and various application icons, with the system clock indicating 19:47 on 24/05/2023.



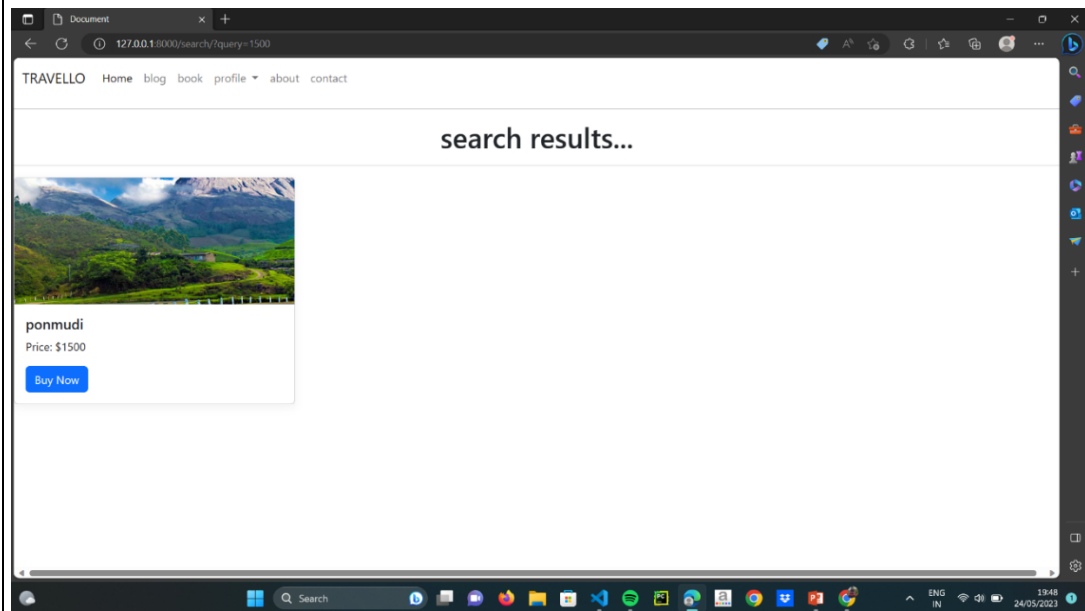
### 3.User Login



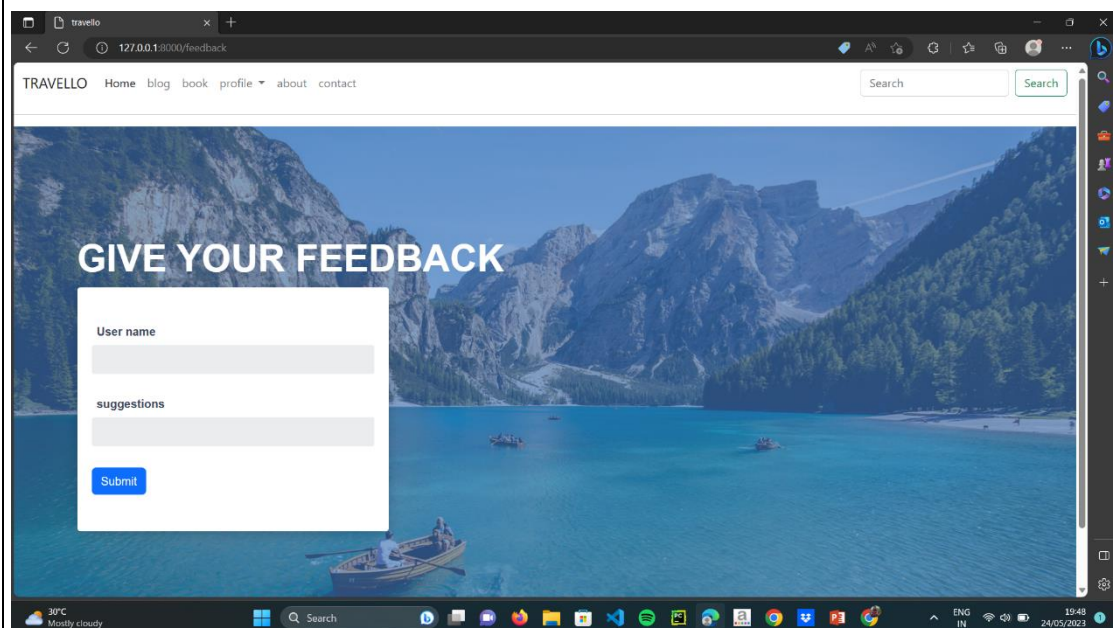
### 4.Search Page



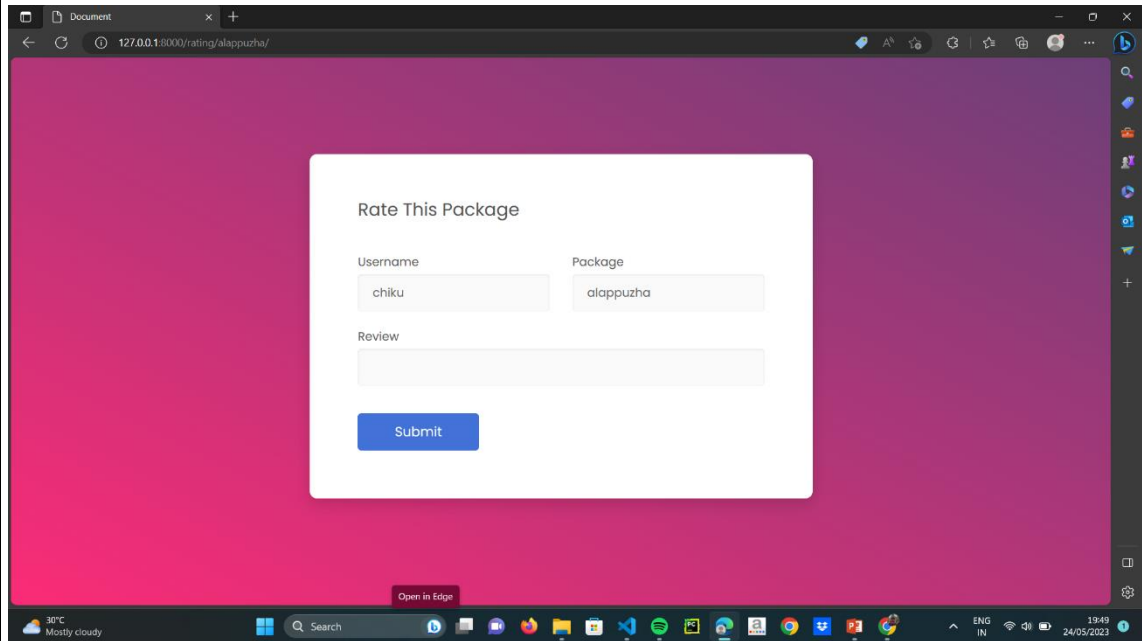
## 5.Booking Page



## 6.complaint/feedback form



## 7.Review the Package



Rate This Package

Username  Package

Review

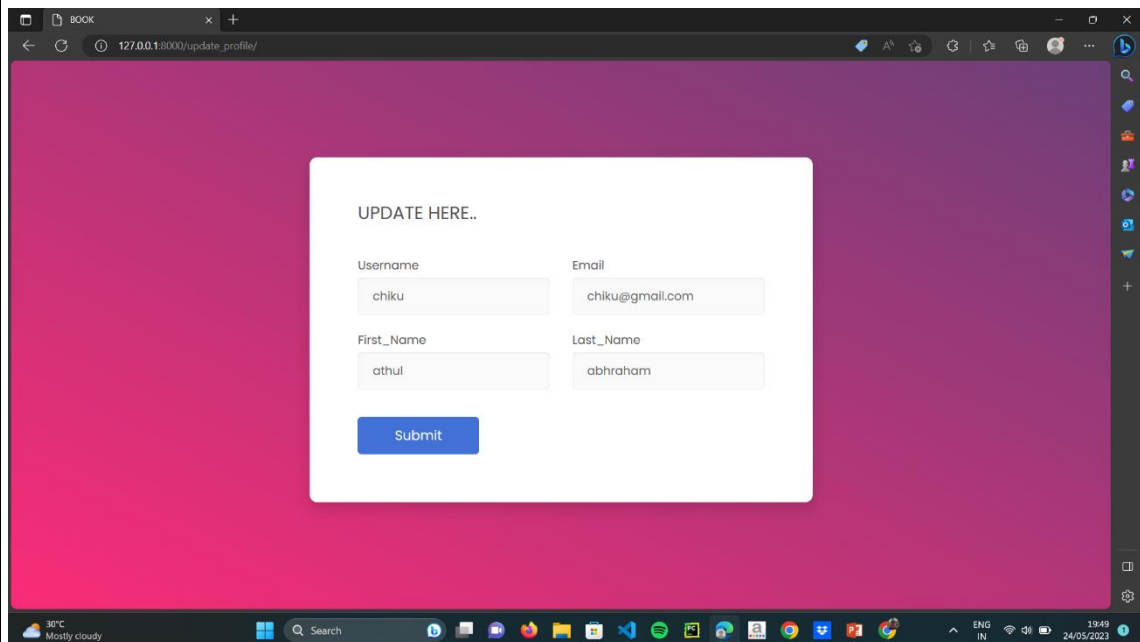
127.0.0.1:8000/rating/alappuzha/

30°C Mostly cloudy

Search

ENG IN 19:49 24/05/2023

## 8.Profile update



UPDATE HERE..

Username: chiku

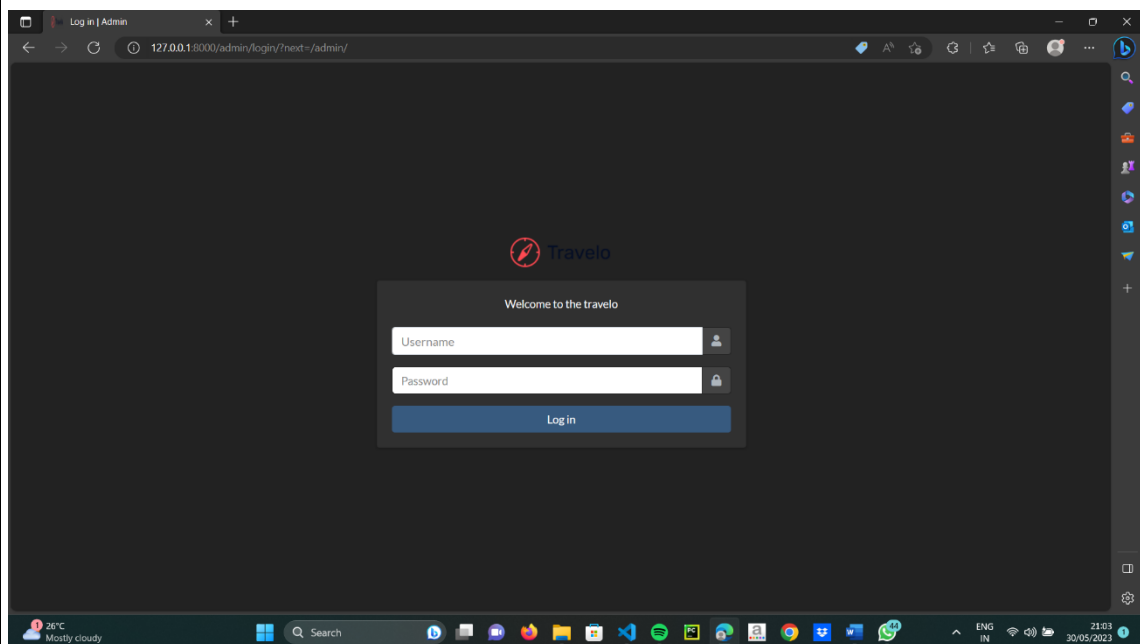
Email: chiku@gmail.com

First\_Name: athul

Last\_Name: abraham

Submit

## 9.Admin Login



Travelo

Welcome to the travelo

Username

Password

Login

## 10.Add Package

The screenshot shows the 'Add package details' form in the Traveo admin interface. The form is located at the URL `127.0.0.1:8000/admin/travelapp/package/details/add/`. It features a sidebar with navigation links for 'Dashboard', 'Authentication and Authorization' (Groups, Users), and 'Travelapp' (Blogs, Books, Feedbacks, Package details, Payments, Places, Ratings, Register tables). The 'Package details' section is active. The form fields include 'Pname' (text input), 'Amount' (text input), and 'Images' (file upload button labeled 'Choose File' with 'No file chosen' text). On the right side of the form, there are three buttons: 'Save', 'Save and add another', and 'Save and continue editing'. The footer of the interface shows 'Copyright © 2023 @traveo. All rights reserved.' and 'Jazzmin version 2.6.0'. The system tray at the bottom indicates a temperature of 28°C, 'Mostly cloudy' weather, and the date/time as 21:08 on 30/05/2023.

## 11.Add Blog

The screenshot shows the 'Add blog' form in the Traveo admin interface. The form is located at the URL `127.0.0.1:8000/admin/travelapp/blog/add/`. It features a sidebar with navigation links for 'Dashboard', 'Authentication and Authorization' (Groups, Users), and 'Travelapp' (Blogs, Books, Feedbacks, Package details, Payments, Places, Ratings, Register tables). The 'Blogs' section is active. The form fields include 'Topic' (dropdown menu), 'Description' (text input), and 'Image' (file upload button labeled 'Choose File' with 'No file chosen' text). On the right side of the form, there are three buttons: 'Save', 'Save and add another', and 'Save and continue editing'. The footer of the interface shows 'Copyright © 2023 @traveo. All rights reserved.' and 'Jazzmin version 2.6.0'. The system tray at the bottom indicates a temperature of 28°C, 'Mostly cloudy' weather, and the date/time as 21:07 on 30/05/2023.