

Rooms and Mess Booking System

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Abstract: in this modern world, we all are attracted to learning various technologies. So in this paper, we work and find out such top technology which used in the corporate world. So you will be familiar with the flow of these modern web technologies and with help of this technology we create such an application which can help the student and staff to find rooms, flats and mess easily on single click

Index Terms: Room, Mess Booking System, Apniroom.in, Back-End, Database, Digital Marketing, Domain and Hosting, Front-End, Full-Stack Development, Git and Github, Google Analytics, Heroku, Linux, MERN stack, Netlify, VPS, etc.

I. INTRODUCTION

I Want To Ask One Question? When You Take Admission To A New College Or Enter In The New Semester Or Reopening Of The College. You Have College Congrats, But What About Rooms? Sometimes You Got Hostel If Available... Once Again Congrats. Wait..., If You Did Not Get Or are Not Interested In The Hostel Then? How Did You Know About Rooms, Mess, And Other Useful Things? So, to Solve This Problem We Provide You with A Room, Mess, And Other Things On One Click With Good Quality And Experience. Our Main Motto Is "Come To Learn From Home To ApniRoom". It Means We Give You an Experience like Home and You're Mainly Focused on Learn and Serving to the Nation. So solve this problem we create this website.

In today's world, internet ordering provides the convenience of food and other delivery or takeout from nearby restaurants or food cooperatives. Today, with the rapid growth of the use of the Internet and associated technologies, various opportunities are emerging on the web or in mobile applications. This is made possible by the employment of a computerized payment system. The customer's credit or debit card can be used to make the payment. Anyone can order any product from anywhere on the internet and have products delivered to their doorstep. Everything from internet transaction announcements to a digital cash economy is the necessary tool for this telecom process with customers. The system becomes an important tool for the restaurant to improve the management aspect by using, instead of the data stored in it; the computer system connects every single meal order transaction. In addition, it can also bring efficiency to the room owner by reducing time consumption, minimizing human errors or deliveries, and providing customers with good quality and service. With regard to the integrity and availability of the system provided, it can be concluded that this system represents an adequate solution. Consumers have used online site ordering rather than essentially adopting self-service approaches. Let's Connect With Us.

Well-designed self-service ordering systems give customers real control over the pace of their transaction and allow them to limit the amount of face-to-face interaction with the room owner and mess owner. A higher level of control, in most situations, leads to increased customer satisfaction and a stronger propensity to utilize or suggest the offered service. A self-service system's perceived convenience also contributes to increased adoption and satisfaction. In this case, the definition of convenience mainly refers to the convenience of accessing and the convenience of the transaction.

A consumer looks for a preferred restaurant depending on their location and chooses from the menu items that are available. Payment can be made either by credit card or cash. Restaurants can accept re-orders through their own online or mobile websites, as well as websites that serve several rooms and all mess owners can accept e-orders and also accept orders through plus text messages through the point of the purchase amount of sales as a result of accepting electronic orders. The restaurant now offers an updated interactive menu with all the options available in a user-friendly way.

II. LITERATURE REVIEW

Normal Room Booking System:

The traditional food ordering process used in most full-service restaurants begins with a waiter bringing the paper menu to diners and then waiting for diners to select menu items and inform the waiter of the items on the menu. The process usually required diners to be seated in the restaurant and a waiter to help place the order. One of the most widely used grocery ordering systems is the traditional paper-based system. In this system, all records are stored on paper. The main disadvantage of this system is that papers can easily be lost or damaged. There is also wasted money, time and paper. Paper-based systems do not offer any dynamics. Even a small change requires the entire menu to be reprinted. It also requires a lot of human effort, this system doesn't work properly because it has some bugs, and from the customer's point of view, it's very time-consuming.

Self-Booking System:

This process required diners to order at the restaurant's service counter. Guests must decide in advance which menu items they want to order before reporting to the counter. The menu catalogue is mainly presented as a poster that is placed behind the order counter.

Digital Booking System:

To reduce service costs and improve customer experience, few restaurants have invested in service automation systems. The automation system used to capture diners' food orders varied in many ways, but primarily consists of an electronic device with a screen that displays the menu and accepts user input to place the order. The first waiter takes the customer's order. After accepting the order, the server must enter this order into the system in which the PC was set up. In the kitchen, the information was displayed on the screen. The kitchen staff then prepared the dishes according to the order and after completing the order reported to the waiter who picked up the dishes and brought them to the respective tables. The system also informed the waiter about the availability of a dish. If a particular dish was not available, the waiter could request changes or even cancel a customer's order. After delivery of the order, the invoice was created according to the customer's order at the checkout. The address had full authority to access all customer data entered into the system. As computer and communication technology has improved, various systems have been brought onto the market to computerize the food ordering system.

III. ROOM AND MESS BOOKING WEB APP***Starting with React:***

React is a JavaScript framework that allows you to create real-time, natively rendered web apps. It's built on React, Facebook's JavaScript toolkit for creating user interfaces, although it's designed for the web. Virtual-DOM is a JavaScript object, each object contains all the information needed to create a DOM, when the data changes it will calculate the change between the object and the real tree, which will help optimizer-render DOM tree. It can be assumed that is a virtual model can handle client data. It is totally component based library.

Workflow:

Starting with login authentication a user should have a valid login id and if not he/she can create it using sign up after logging in it will be redirected to the home page and then he can search the name of is a city and all available mess and room will appear. Later he or she needs to select the room and mess then go through menu items. Selecting the rooms and mess items adding to cart and then checkout. After clicking checkout add the order to firebase and confirm to the user that your order has been placed.

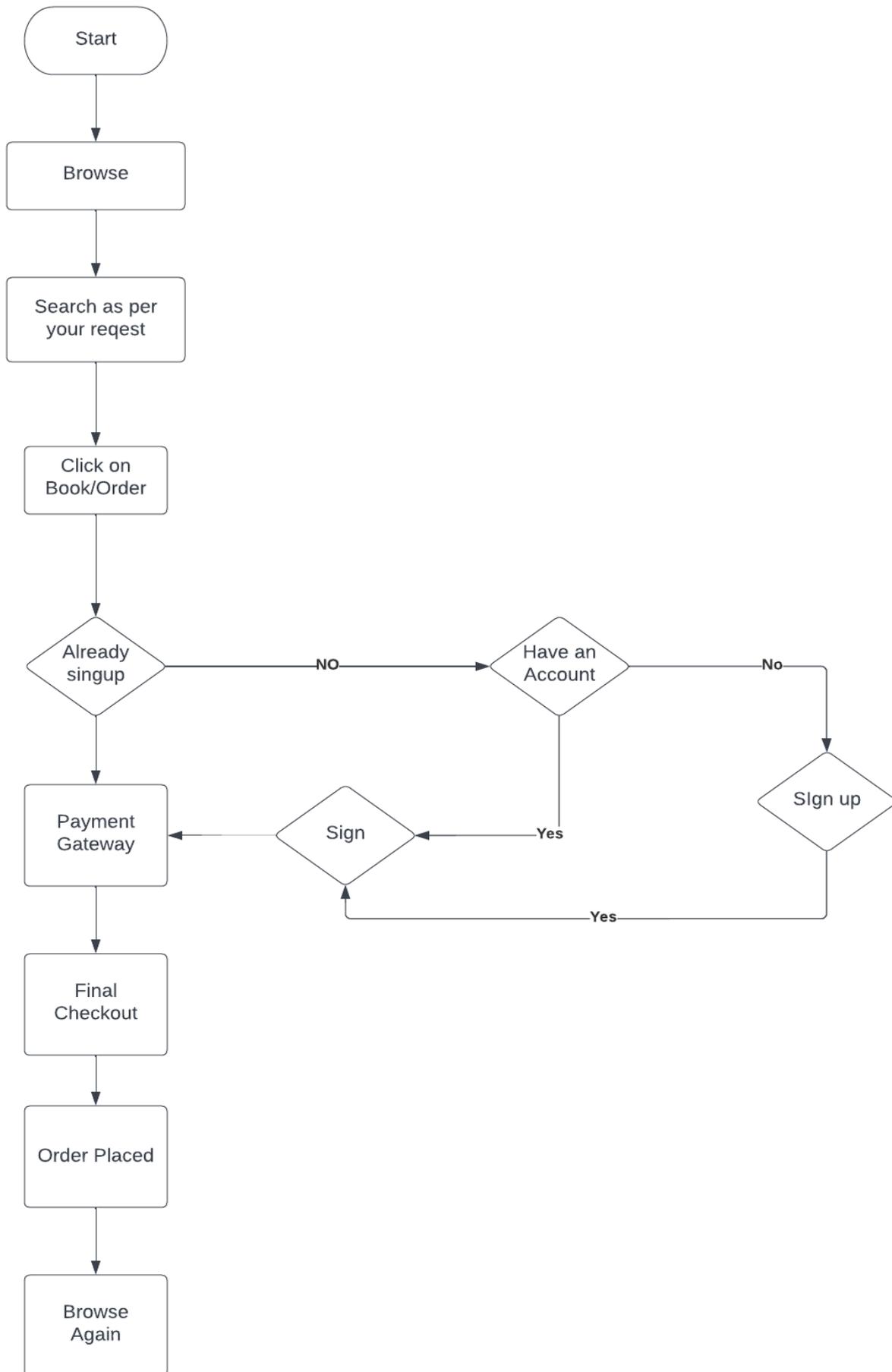


Fig 3.1- workflow of project

IV. IMPLEMENTATION

Firstly you would have to create your profile through sign up page. You have to give valid inputs and create valid password which would later be used to sign in to the account.

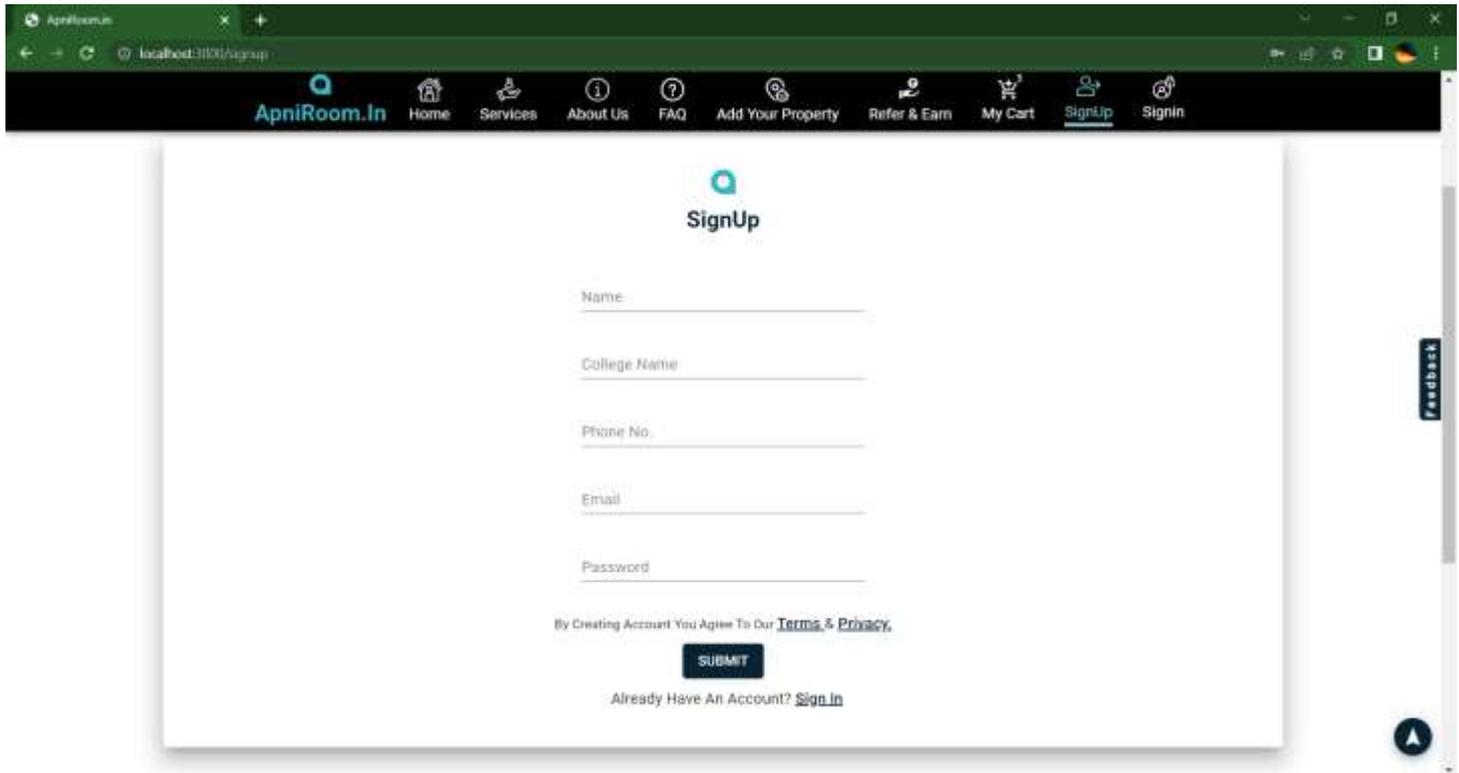


Fig 4.1- Sign Up page

Now, the users who have already Sign Up, can Sign In to the account through Sign In page so that one can access the services provided.

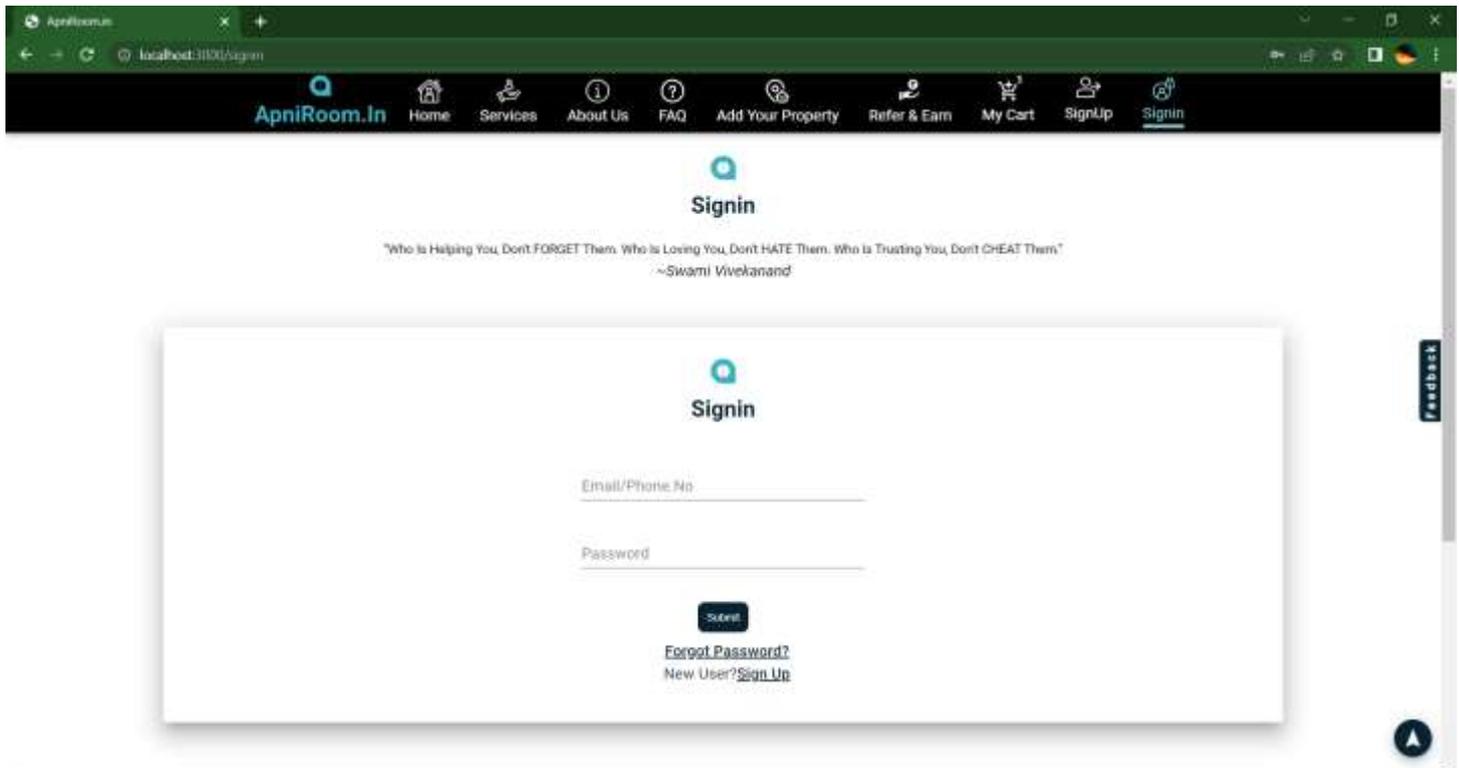


Fig 4.2- Sign In page

Now, after signing in, user is redirected to the Homepage.

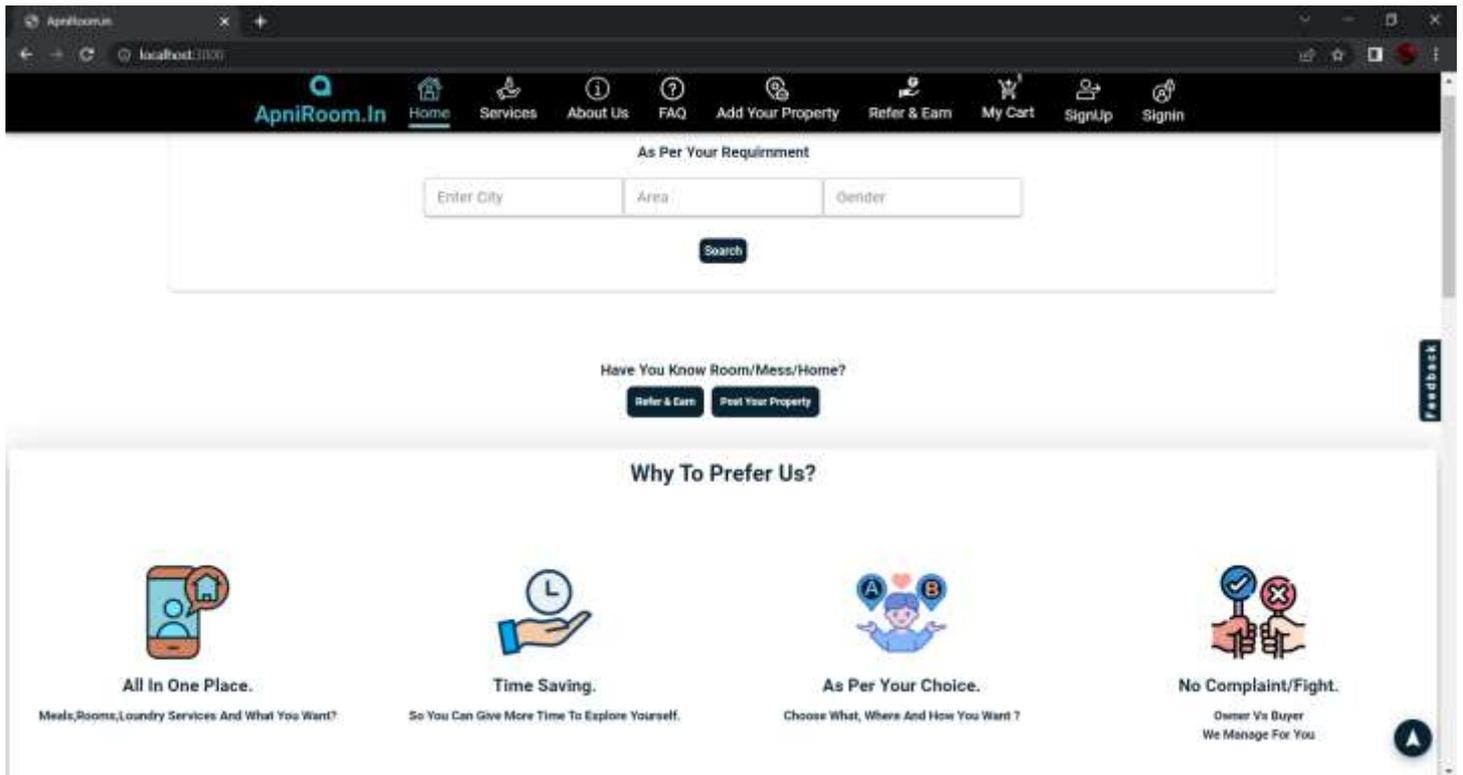


Fig 4.3- Home Page

On the Homepage, user can select the city and area in which one is searching for the room. One can also filter the search according to the gender.

After feeding all the data, user is redirected to the search results, the same as the data fetched on the service page, but more filtered according to the location. Here, user gets a list of all filtered results from which one can also know about all the details of the room like rent, location and other things. Even, user can view the photos of the room, uploaded by the owner.

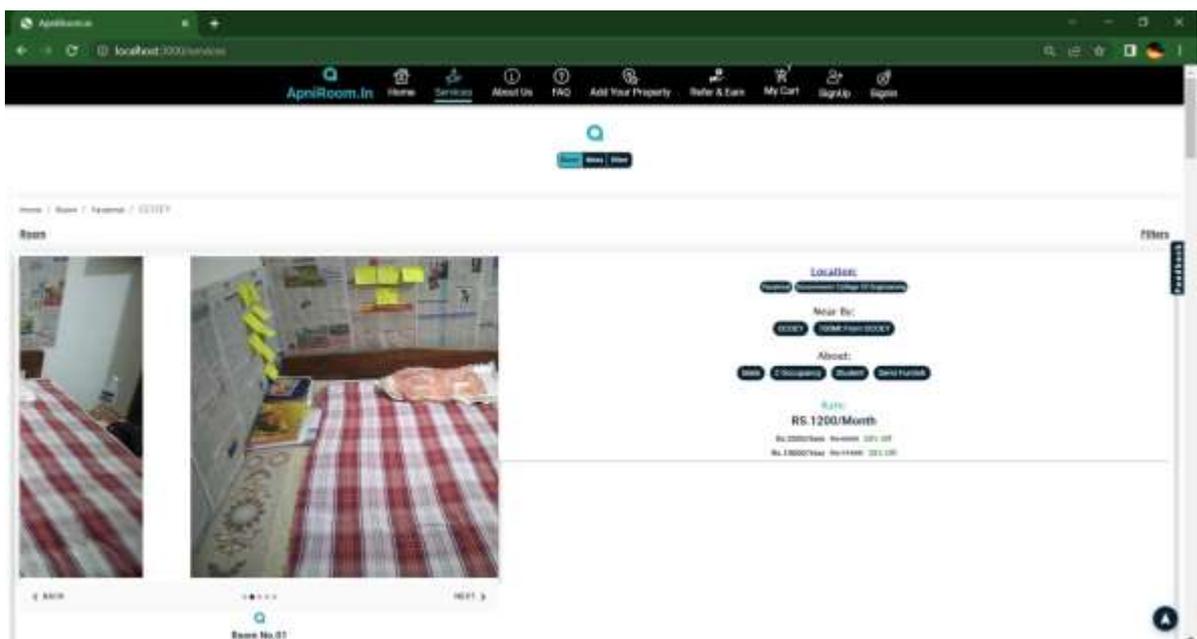


Fig 4.4- Service Page

So, now the most important, all the search results must be fetched from some data storage. And this data is collected from nowhere but only from users. There is a "List Your Property" page from which one can add property or room to give for rent. Owner can get on the page by following "Add Your Property" button from the menu.

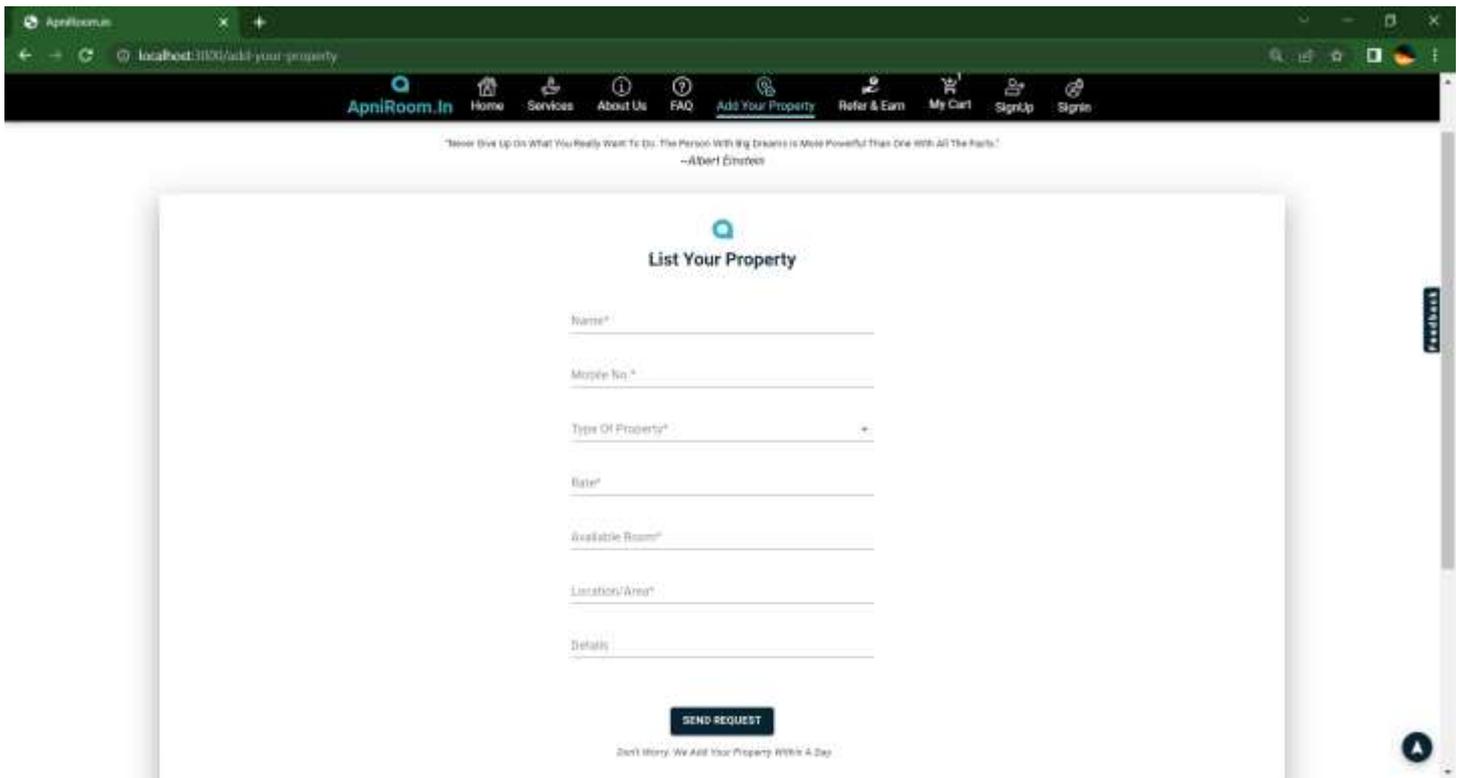


Fig 4.5- List Your Property

To expand the network, there is a greed for user where user can win some exciting rewards after referring to friends to use the platform according to the need. "Refer and earn" button in navigation bar redirects to the referring page.

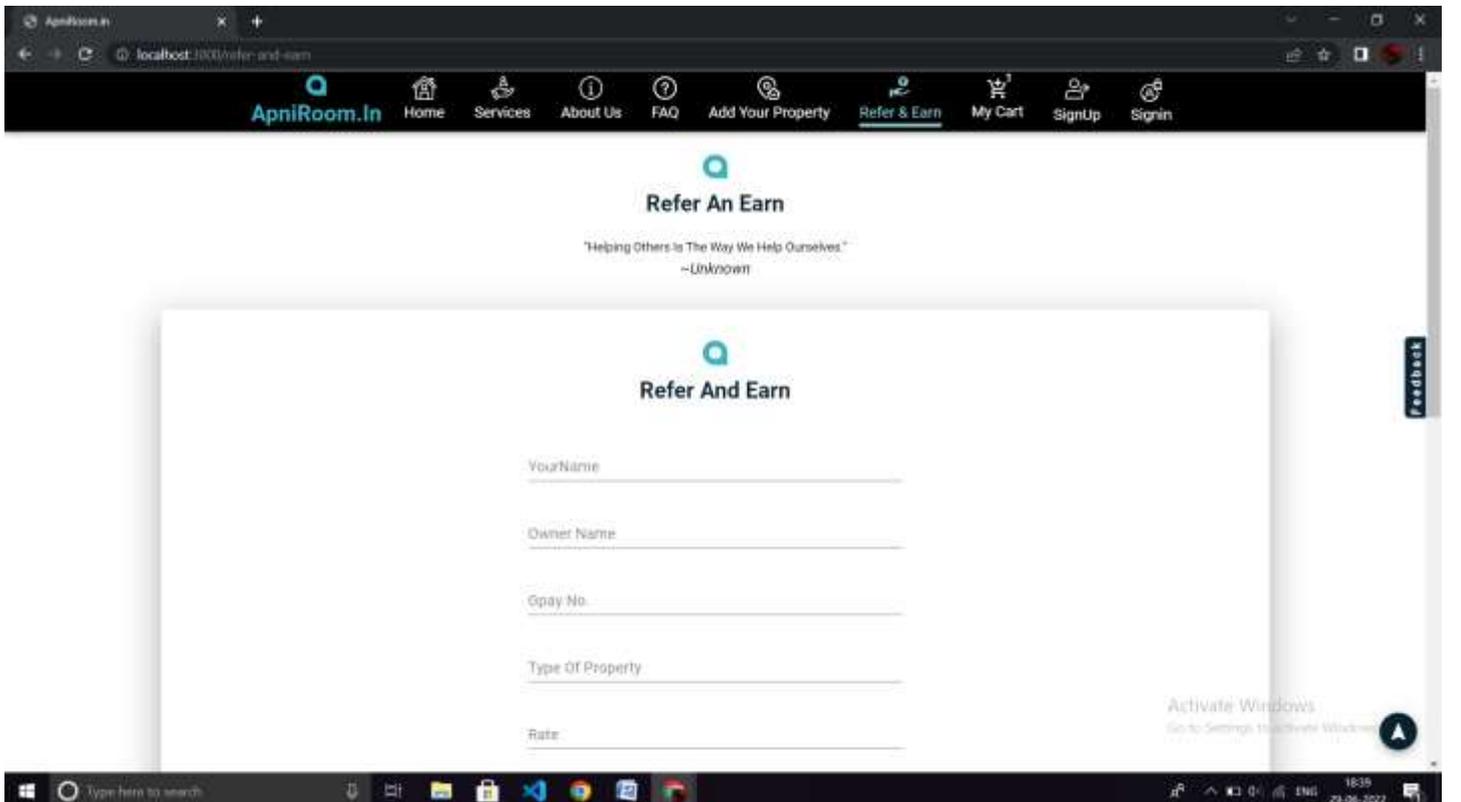


Fig 4.6- Refer and Earn

V. CONCLUSION

Online room and mess booking systems are done to help and solve one of the important problems of customers. Because a Large number of customers can use the internet and phone. Various issues related to Mess/Tiffin Service will be solved by this system. Thus, the implementation of the online mess and room booking system is done to help and solve one of the important problems of customers. It helps customers in making orders and booking easily and gives information needed in making orders to customer place. The Rooms and mess booking Application is made for room owners and customers. The application is based on user requirements and is user-centric. All issues related to all users included in this system are developed by this system. If the users know how to operate an Android smartphone, all kinds of people can use the app. This system solves the various problems related to the booking servicing system. In order to support and solve people's big problems, the online booking system will be implemented. Based on the application, the following can be concluded: Booking is made easy through this system. The system provides the customer with the necessary information to place the order. Receiving orders and changing their details is possible through the app and also helps the admin to control the entire booking system.

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