PROJECT REPORT
ON

Flat and Flatmates

Submitted in partial fulfillment for the award of

Post Graduate Diploma in

Advance computing

From C-DAC, ACTS (Pune)

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Have successfully completed their project on

Flat and Flatmates

Under the guidance of
Mr. Mukesh Negi

Project Guide **Project Superviser**

ACKNOWLEDGEMENT

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Abstract

With the rise in the mobility of the people from various locations in need of better job, study, standard of living, etc. there has been a major concern for managing a housing society and its functioning. Outsiders in a region requires a management system that may allow to relocate quickly with a better housing choice.

The proposed system focusses on development of a Web based application that targets people looking for accommodation in the city. The proposed Flat and Flatmates is a customized and user-friendly system that allows to store and hare information about the PG accommodation services across the city. It provides facilities such as enquiring about PG, Address, Rent and other daily need services. The users will thus be able to access the services provided by the web App. The proposed application is developed using the two component: React JS as front end and JavaEE and MySQL Database as backend. The overall system is divided into the following modules:

. In our system, we will be having three types of entity/people involved,

i) General user: - where he/she can be able to search for the available choices as per the specifications.

ii) Owner/Tenant: - In order to receive proper service by the user, we are providing owner/tenant authentication after the ads are being posted by them.

iii) Admin: - She/he is responsible for owner/tenant service authentication and other such functionalities

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Chapter 1
INTRODUCTION

1.1 Introduction

Since finding flat and flatmates of your choice is a major challenge when we shift to any new place. As the functionalities of renting a Flat is completely based on manual procedures, most Flat are left rent less due to lack of communication and unawareness. There is a need to develop a system that may allow the Flat owner to maintain their work and Customers to relocate easily using the Flat and Flatmates app. To overcome the problems occurring due to this time lagging manual system, an automated system needs to be developed to reduce the human efforts. This system mainly focuses on the Flat owners as well as the tenant who are in search of Flatmates who come from different places to study as well as to work.

1.2 Aim

The mission is to facilitate quick and hassle-free user oriented system for renting a flat αrFinding flatmates according to ones requirements. And thus helping the needful people in facilitating their shift from one city to another and it also helps users to search flats and flatmates on reasonable price.

1.3 Existing system

In the existing system, user needs to waste a lot of time and physical effort in finding the place to rent out and no proper information is provided to the user regarding the authenticity of the flats. All the information is maintained in records which is not much feasible and is quite difficult to view and modify. Moreover the current system doesn't provide better user experience and doesn't provide a lot of feasibility for the selection of the spec

Chapter 2
PRODUCT OVERVIEW AND SUMMARY

2.1 Literature Survey

The number of educational institutions and job offerings have increased rapidly in the past few years. Thereby the number of accommodation
requirements by students and workers has also increased in the city. There is much strain for the Flat owners to maintain and allot the Flat adopting manual procedures. In this context the technology can be used to enhance the services and facilities for the Flat owners and the customers. In the existing systems the search for Flat completely manually which in turn wastes money, time and human power. Identifying the drawbacks of the existing system this project work focusses on designing an Android based application which is more user friendly and beneficial for Flat owners. There is no web application which can facilitate to find out accommodation and Flats pan India .People coming from different places to study and to work find it very difficult to search for the PGs to stay. This application provides a detailed information about all the Flats and apartments. they are all sorted according to the area, price and amenities so that search can be made easy, there are no specific application on this domain.

2.2 **Overview**

- The proposed Flat Rental system provides a smart way to users in searching the flats to rent out. The user can be able to search for the flat from anywhere and at any time which saves a lot of time and not even the physical efforts are required.
- All the details given by users are stored in the database with high-level security.
- The user can also search the flat according to their budget.
- The details can be checked frequently and can be modified at any time by authorized members of the application (admin).
- authorized members of the application (admin).

The below are the modules available in the proposed system:

1. User Registration.
2. User login.
3. Owner/Tenant Registration.
4. Owner/Tenant Login.
5. Admin Login.
6. Registration confirmation after validation of entry.
7. Searching of the flat as per the credentials provided.
8. Desired flat Selection (only to be done after registration/login).
9. Accommodation confirmation by the user
10. Removal of the confirmed accommodation by the admin
11. Password change

2.2.1 Admin:

Admin will have a unique URL to access the whole contents of website. Admin needs to get logged in by entering valid credentials. Admin can view all the details of the registered users and can authorize them. Admin can add user as well as owner/tenant via registration form provided to admin. Admin can view user's choices and will send to the requested details only after login/signup. Admin can view user's request and will verify owner/ request for a venue with a confirmation mail to users.

Admin can remove the ad after the confirmed accommodation and it can also provide free and subscription service as per the user requirement. Admin can give discounts to user if he/she selects the monthly/yearly packages.

2.2.2 Owner/Tenant (Service Providers):

Basically in this, there will be 2 categories – either the owner itself or the flat tenant who is looking for the flat mate.

The owner/tenant will be added by admin and will get his/her credentials to their mail id after valid authentication. The owner/tenant needs to login with valid username and password from front page. He/she then can add/delete/edit their services including price, etc. Similarly, it can add on the new photos regarding their services in the gallery. The owner/tenant can view request sent by admin and can give a response to admin.

2.2.3 User:

12. The user can be able to search for the flats as per his/her required specifications. There will be choices for him/her to choose from with which he will get the desired results like the price range, locality, amenities provided etc. But to get in touch with the owner/tenant, user needs to be a registered member. After verifying the authenticity of the user, admin will provide the requested details about the flat to the user. User can then directly contact or connect with owner/tenant and can proceed for further formalities. After the finalization of flat, user needs to provide the confirmation about the accommodation with the system that will be verified

Chapter-3
Requirements

3.1 Software Requirements:

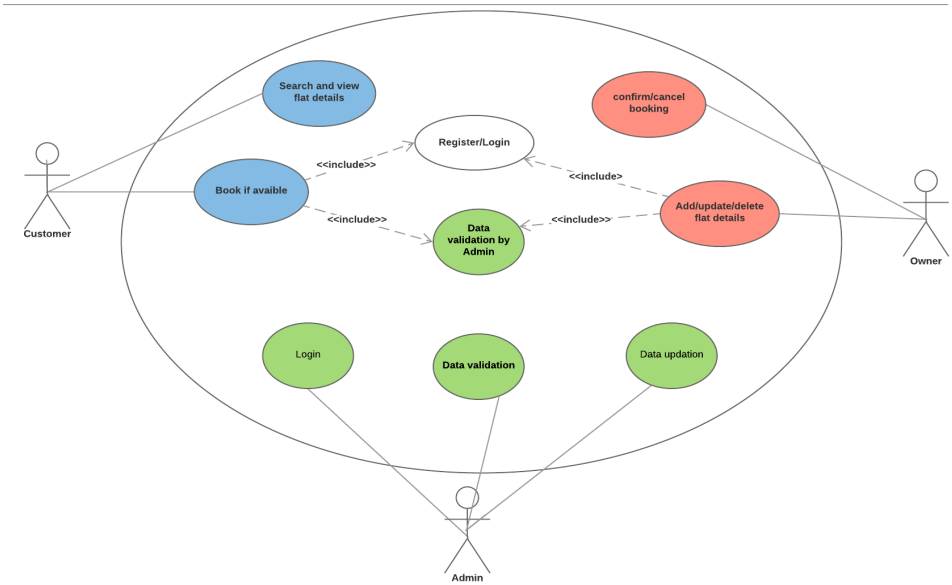
1. JDK: JDK 8.
2. Backend: SPRING MVC/SPRING BOOT/ J2EE / Node JS.
3. Frontend: Html, CSS, Bootstrap, React Native.
4. Programming Languages: JAVA, java script.
5. Database: MySQL5.
6. IDE/Workbench: STS/visual studio code.

3.2 Hardware Requirements:

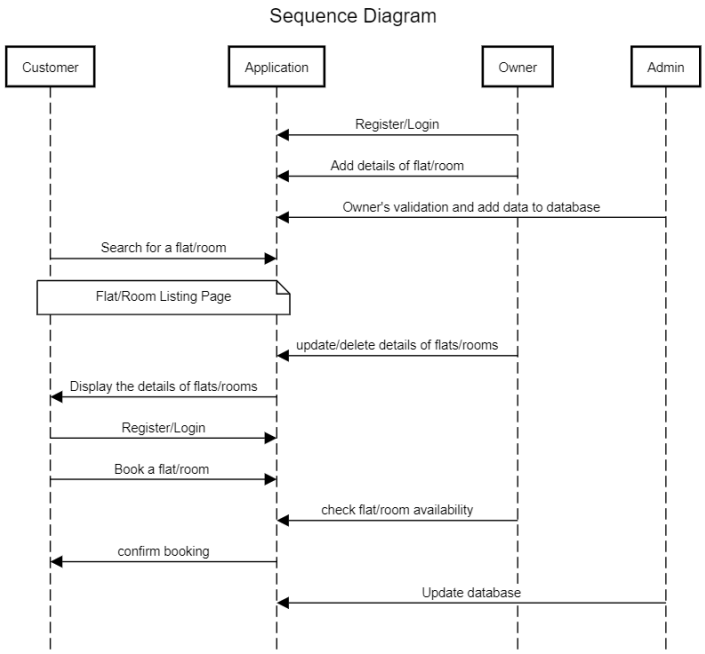
1. Operating System: Windows 10 (32/64).
2. RAM: 2GB (Minimum) / 4GB (Recommended).
3. Memory: 500GB.
4. Processor:

Chapter-4
PROJECT DESIGN

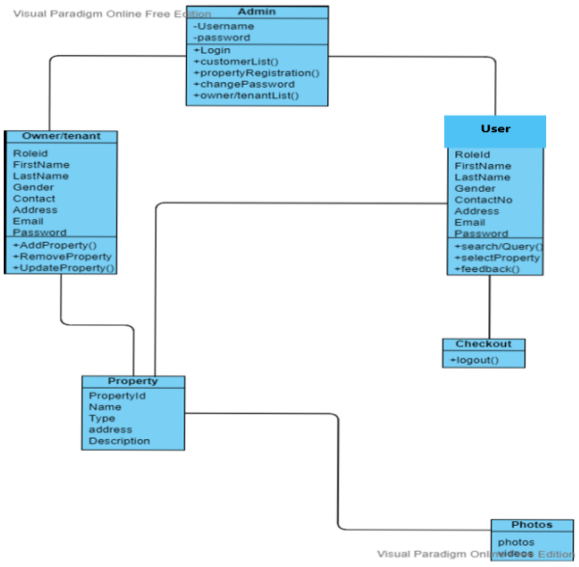
4.1 Use Case Diagram

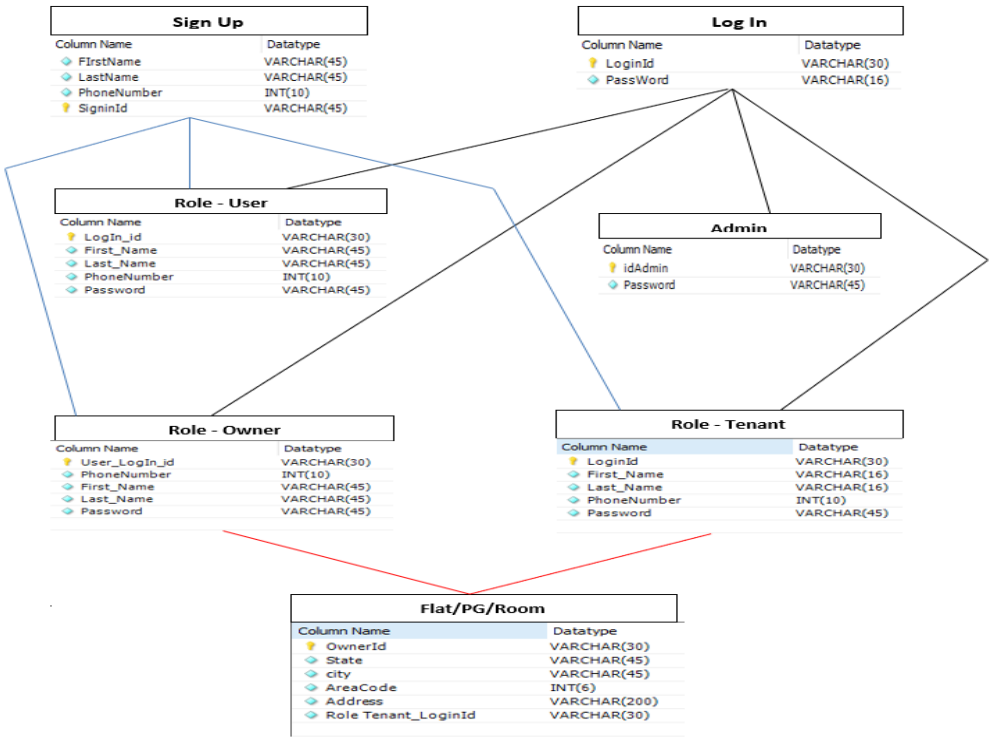


4.2 Sequence Diagram

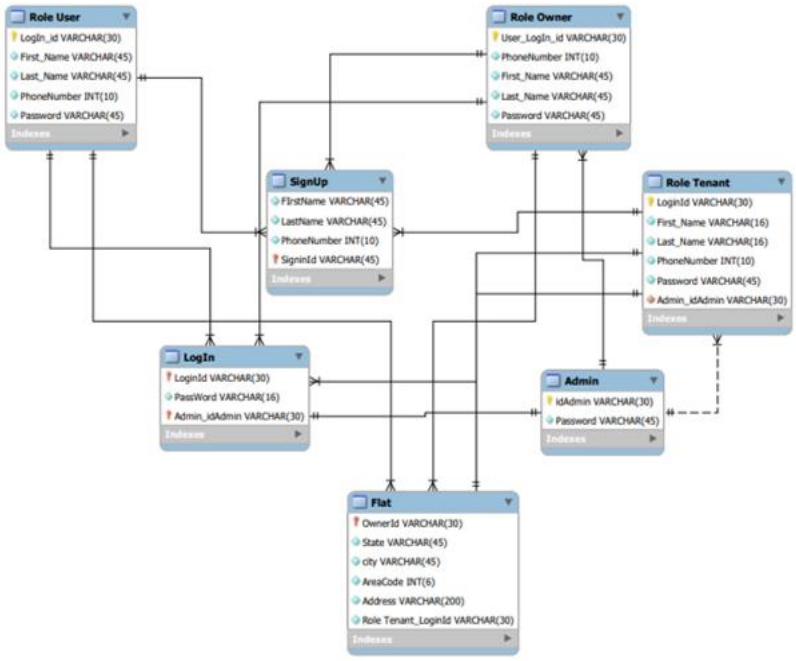


4.3 Class Diagram

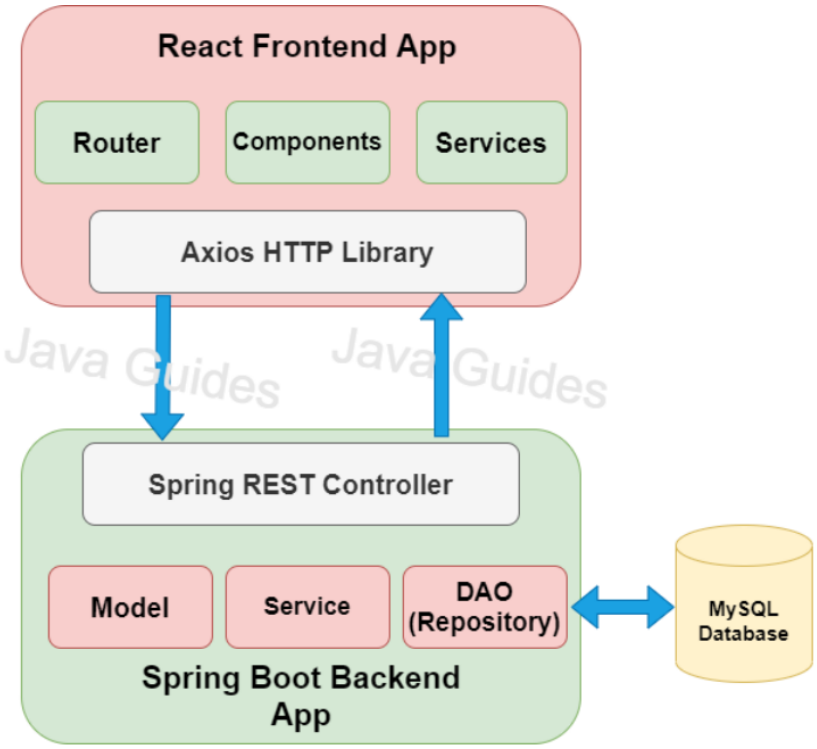




4.5 ER Diagram



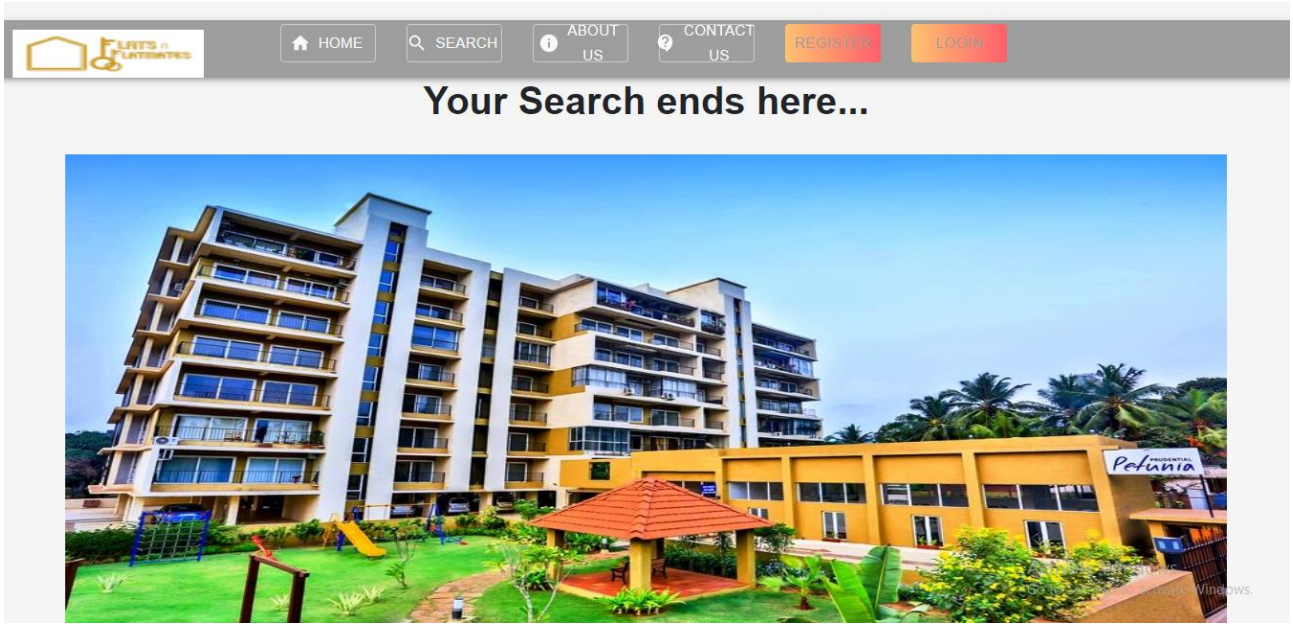
4.6 project Architecture



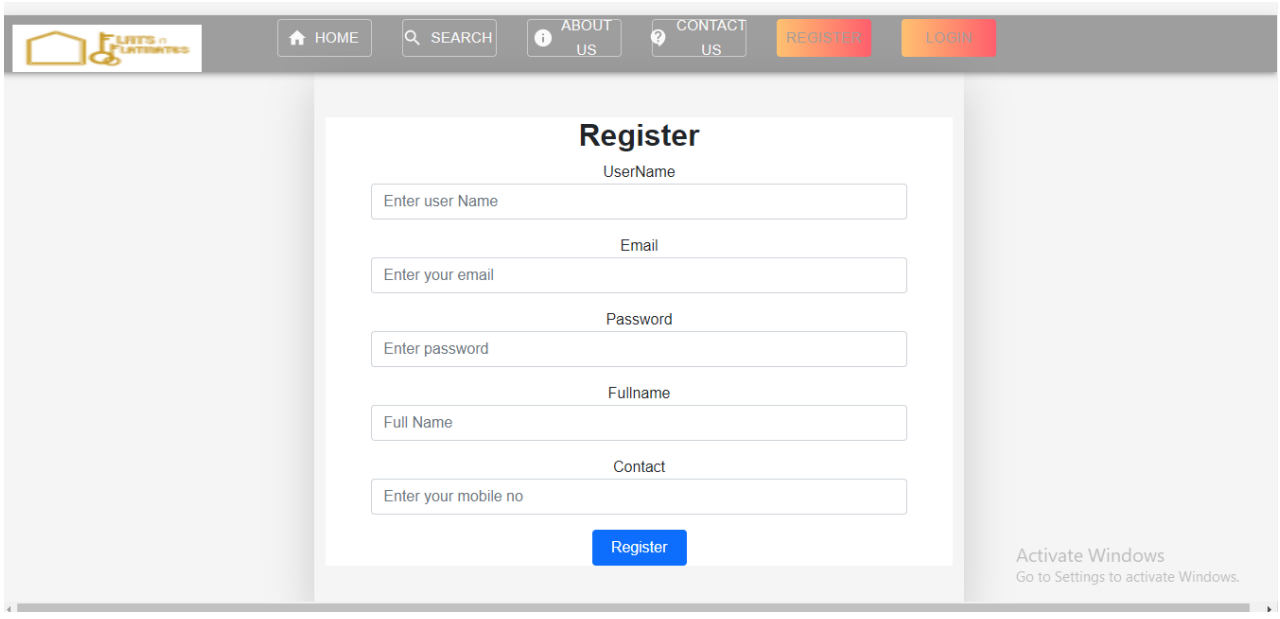
Chapter-5

RESULTS AND DISCUSSIONS

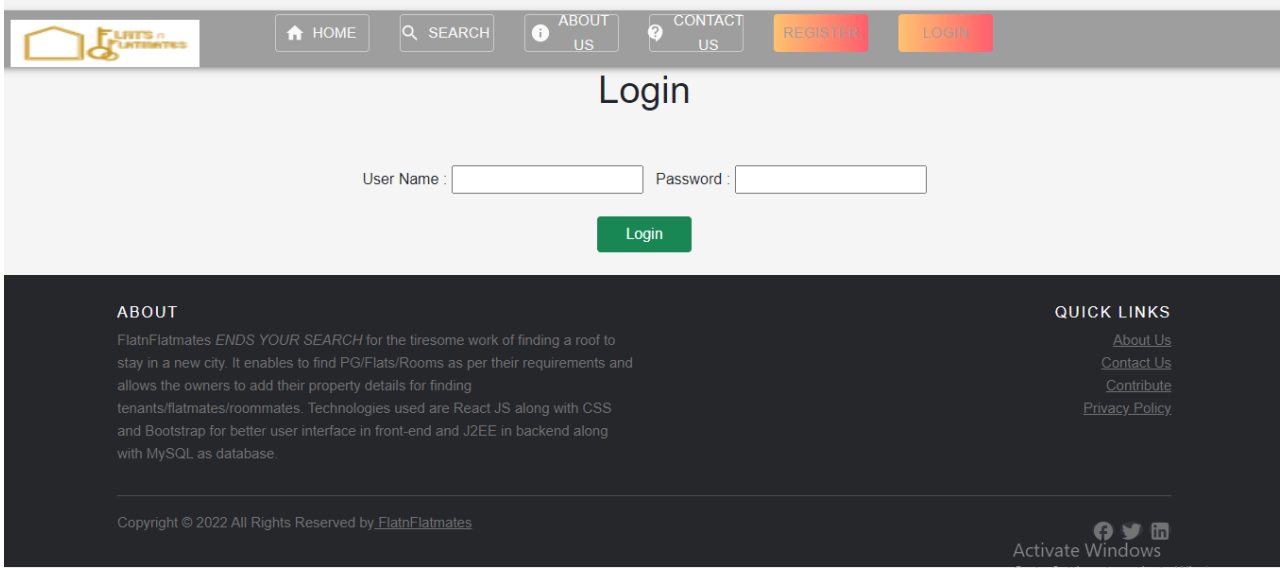
To simplify the work of the FLAT Owners, so that all their work can be efficient and effective, Flat and Flatmates is developed which is based on the Owners and the Customers. The Owner updates the Apartment, Room details about Room space, Room rent, Pictures of room and the Address Details also. The Flat and Flatmates is best suitable for the Owners because it saves time and there is no need to explain the room details. The Flat and Flatmates is used to easily identify the suitable place and saves time and cost also. The Flat and Flatmates is best way to search the flats and Flatmates.
The system will be able to handle many services to take care of all customers in a quick manner. Safety, easiness of using and most importantly the efficiency of information retrieval is some benefits the development team is going to present with this system. The system should be user appropriate, easy to use and have an overall end user high subjective satisfaction.



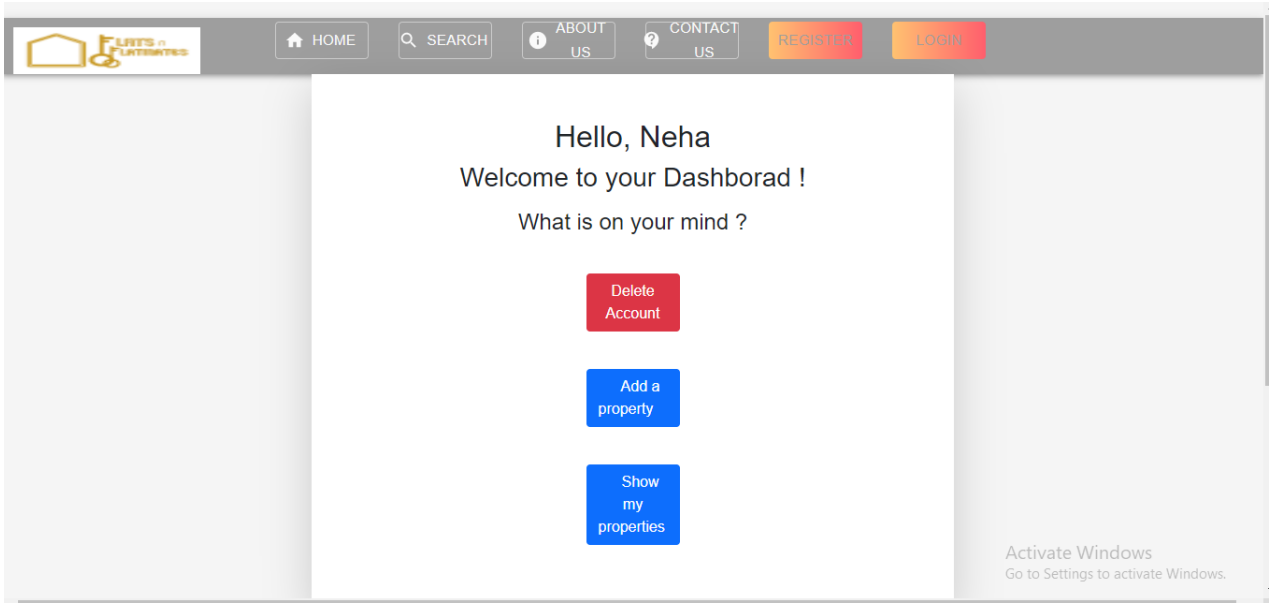
5.1 home page



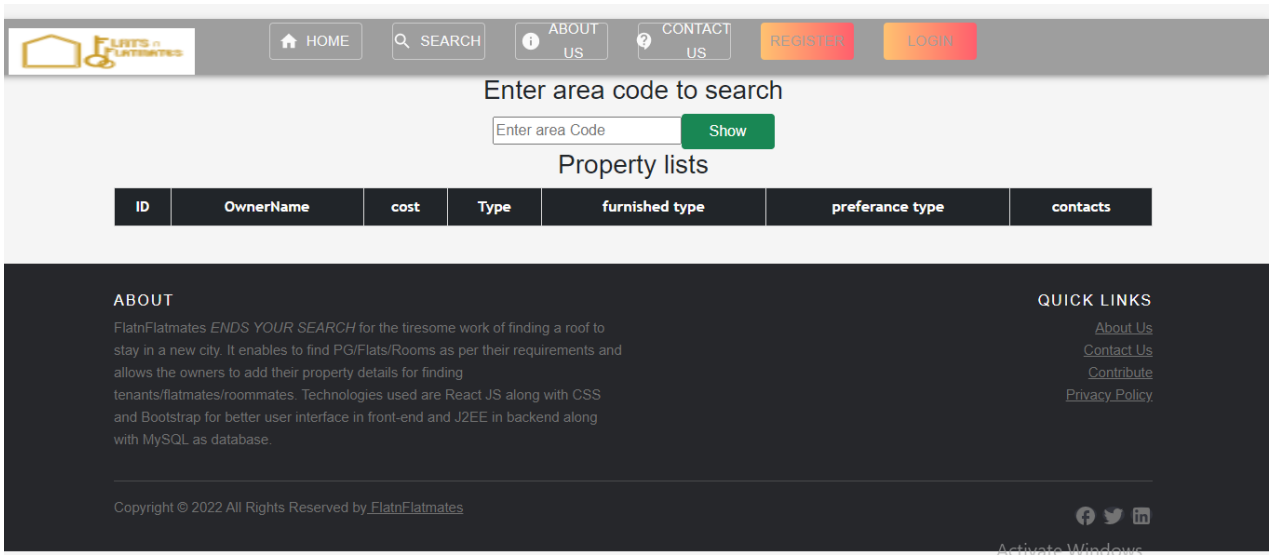
5.2 Register



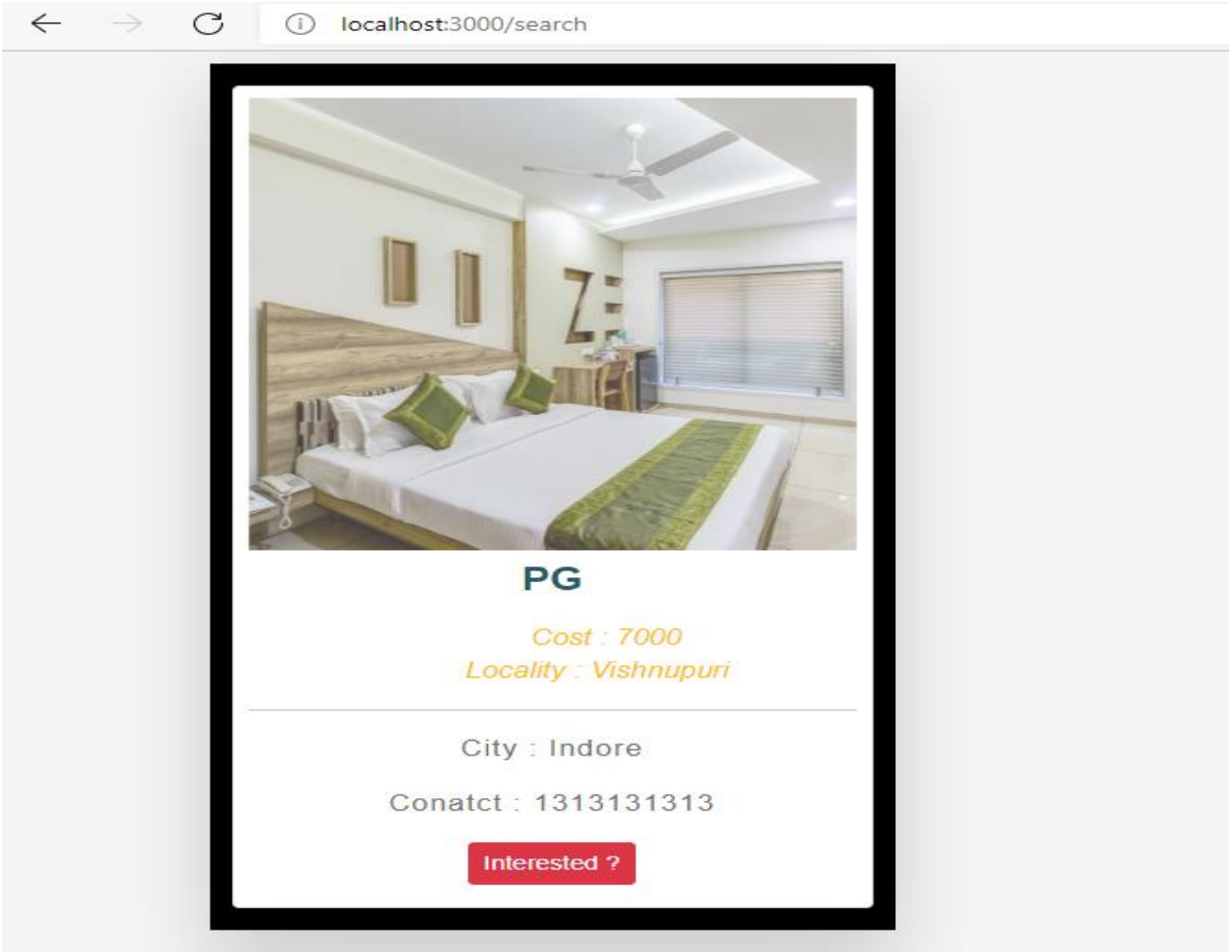
5.3 login



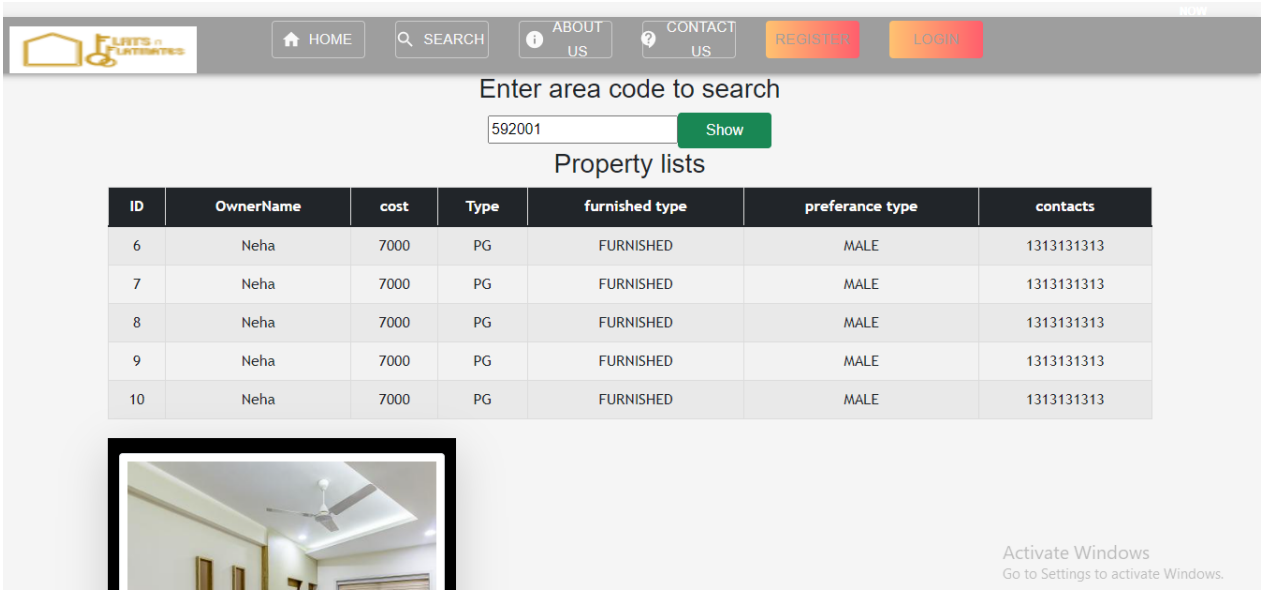
5.4 Dashboard



5.5 search page



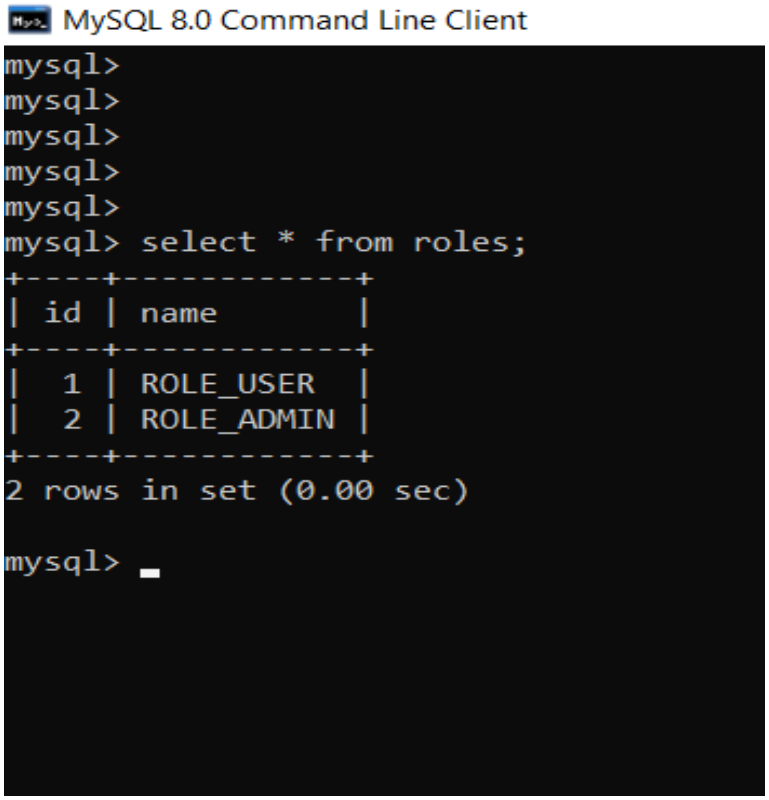
5.6 Search result



ID	OwnerName	cost	Type	furnished type	preferance type	contacts
6	Neha	7000	PG	FURNISHED	MALE	1313131313
7	Neha	7000	PG	FURNISHED	MALE	1313131313
8	Neha	7000	PG	FURNISHED	MALE	1313131313
9	Neha	7000	PG	FURNISHED	MALE	1313131313
10	Neha	7000	PG	FURNISHED	MALE	1313131313

5.7 Search result

5.8 Tables in Database



5.9 User roles table

```
mysql> select * from users;
+----+---------------+------------+-----------------+---------------+-------------------------------------------------------------+-----------+
| id | active        | contact    | email           | fullname      | password                                                    | user_name |
+----+---------------+------------+-----------------+---------------+-------------------------------------------------------------+-----------+
|  1 | 0x01          | 9000000000 | pankaj@gmail.com | Pankaj Inamdar | $2a$10$89597dulEOHKKBPThmajbu8gF3KXprWwtlN.Hy3JNkrwbOo7LptEy | Pankaj    |
|  2 | 0x01          | 8000000000 | neel@gmail.com   | Neelima Bodkhe | $2a$10$HyVeE1.wInWfVVIRaT7MDeso2XAf8qEEbLEK7MUak5sxN9Ywy/Fj6 | neelima@2 |
|  3 | 0x01          | 1000000000 | onkar@yahoo.com  | Onkar Yogi     | $2a$10$7f6BCSugkN08IVU8QFFkg.jsU2yNBhijiJFX16qihCIcF5pCZHHxC | mrOnkar   |
|  4 | 0x01          | 9876543210 | sahu@gmail.com   | Pankaj Sahu    | $2a$10$v8UixRAIKi9dJE0ivkKwN.l6PIt7AaP8aDq93K/lu/T/O5SH4Vl3S | mrSahu    |
|  5 | 0x01          | 1234567890 | neha@gmail.com   | Neha Tadas     | $2a$10$nbvynEwuV9zMFjG5eXEZeerH0IwC.tembbIQ/lSF7dXqtjzIwLjA. | neha13    |
|  6 | 0x01          | 9988771236 | pandey@gmail.com | Purnima Pandey | $2a$10$EpOn6KGQ5KUBR6LoomPGX.z.dDGOFAxcy9PRD7EGcMYSBO9uG/1oi | purnima   |
+----+---------------+------------+-----------------+---------------+-------------------------------------------------------------+-----------+
6 rows in set (0.41 sec)

mysql>
```

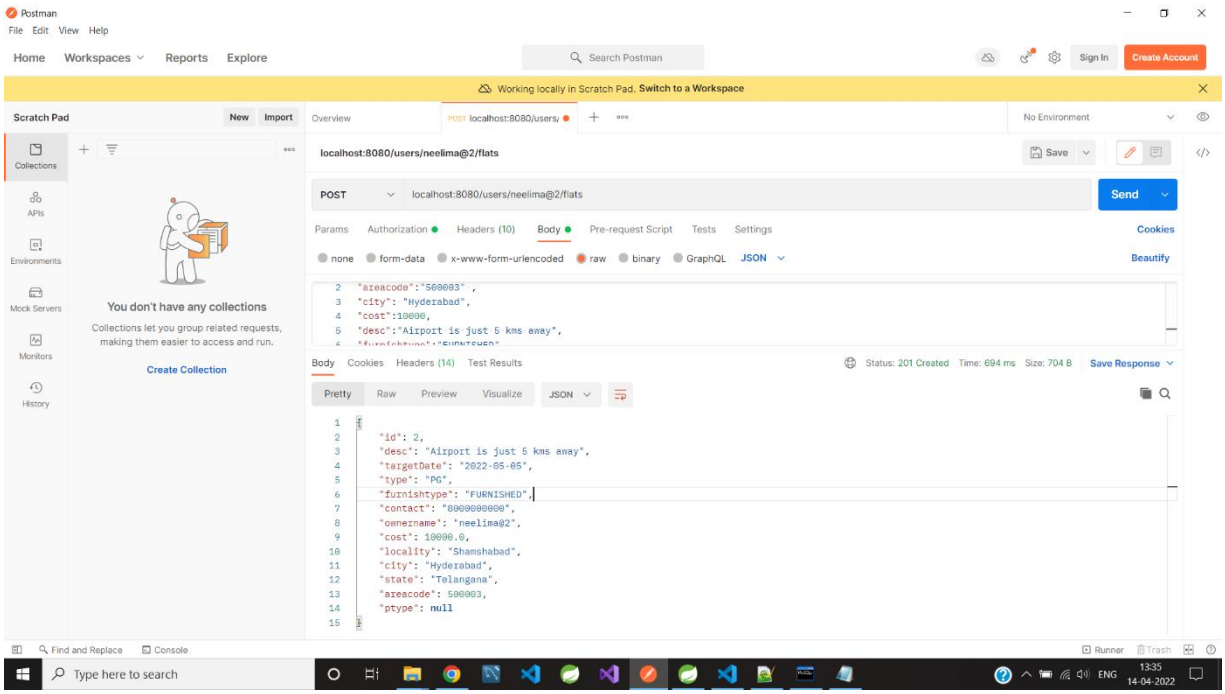
5.10 Sample stored user data

```
MySQL 8.0 Command Line Client
mysql>
mysql>
mysql> select * from flat;
+----+---------+----------+------------+-------+-------------------------+-------------+-------------+----------+-------+-----------+------------+------+---------+
| id | areacode | city     | contact    | cost  | description             | furnishtype | locality    | ownername | p_type | state     | target_date | type | user_id |
+----+---------+----------+------------+-------+-------------------------+-------------+-------------+----------+-------+-----------+------------+------+---------+
|  1 |   456321 | pune     | 9000000000 | 20000 | All amenities provided  | FURNISHED   | Shivaji Nagar | Pankaj   | NULL  | Maharashtra | 2022-05-01 | PG   |       1 |
|  2 |   500003 | Hyderabad | 8000000000 | 10000 | Airport is just 5 kms away | FURNISHED   | Shamshabad  | neelima@2 | NULL  | Telangana | 2022-05-05 | PG   |       2 |
+----+---------+----------+------------+-------+-------------------------+-------------+-------------+----------+-------+-----------+------------+------+---------+
2 rows in set (0.00 sec)

mysql>
```

5.11 Sample sored flats data

```
MySQL 8.0 Command Line Client
mysql>
mysql>
mysql> select * from user_roles;
+---------+---------+
| user_id | role_id |
+---------+---------+
|       1 |       1 |
|       2 |       1 |
|       3 |       1 |
|       4 |       2 |
|       5 |       2 |
|       6 |       2 |
+---------+---------+
6 rows in set (0.08 sec)

mysql>
```

5.12 User roles table



5.13 Add Property testing

Futures Scope

Flat and flatmates is user-friendly web app which enables the people to easily locate authorized flats and Flatmates pan India and also, they are all sorted according to the area, so that search can be made easy. Time has been an important factor in everyone's life and when people move to different places to study or to work, they definitely have to waste time in searching for accommodation. Thus, we have integrated a lot of features .

Conclusion

This software reduces the amount of manual effort and gives greater efficiency. The User Interface of it is very friendly and can be easily used by anyone. It also decreases the amount of time taken to search a perfect accommodation for oneself.

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1.www.w3school.com
2.https://docs.oracle.com/javase/8/docs/api/index.html?overviewsummary.html 3.
https://www.youtube.coh/?v=XEZij0zwK0U&t=35sm