Enterprise Application Development - Group 29

expRSL Application Idea

- Our idea is to develop an application, where users could explore nearby houses, plots, furnished rooms, rentals and lease.

- Our Application would be a medium between , the owners who are ready to sell or rent people who are in search of a property/home.

User Registration Page

Sign Up

First Name

Email

Last Name

Password

Contact No

Confirm Password

Address

Sign Up

Already have an account? Log In

User Register Form

Sign Up

First Name

Mani

Last Name

Teja

Contact No

9502826795

Address

Bhel, Old Mig - 795

Email

manitej.m18@iiits.in

Password

••••••••

Confirm Password

••••••••

Sign Up

Already have an account? Log In

User Registration Successful

DATABASES: 1 COLLECTIONS: 2

📊 VISUALIZE YOUR DATA   ⟳ REFRESH

+ Create Database

🔍 NAMESPACES

▼ myFirstDatabase

    sales

    users

myFirstDatabase.users

COLLECTION SIZE: 516B   TOTAL DOCUMENTS: 2   INDEXES TOTAL SIZE: 36KB

Find   Indexes   Schema Anti-Patterns 0   Aggregation   Search Indexes ●

INSERT DOCUMENT

FILTER {"filter":"example"}   **Find**   Reset

QUERY RESULTS 1-1 OF 1

```
_id: ObjectId("60928addc9318d54f84b6722")
email: "manitej.m18@iiits.in"
passwordHash: "$2a$10$sVo6TsNd8BGb5AKk2ml1j.i2phh4sqe4WCXAjHhsbm81lOhvVViii"
first_name: "Mani"
last_name: "Teja"
contact_no: "9502826795"
address: "Bhel, Old Mig - 795"
__v: 0
```
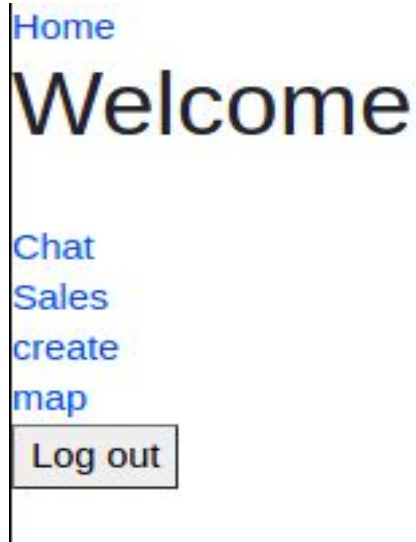
User Login Page

expRSL

Explore Rent Sale Lease

Log in

Email

manitej.m18@iiits.in

Password

••••••••

Login

Don't have an account? Sign Up

Successfully Logged In Page (Welcome Page)

Home

Welcome

Chat
Sales
create
map

Log out

- This page will be redirected after successful login.
- From this page user can chat, create sales, use interactive map to know the locations etc.

Home Page

House

Exprloring is easy now
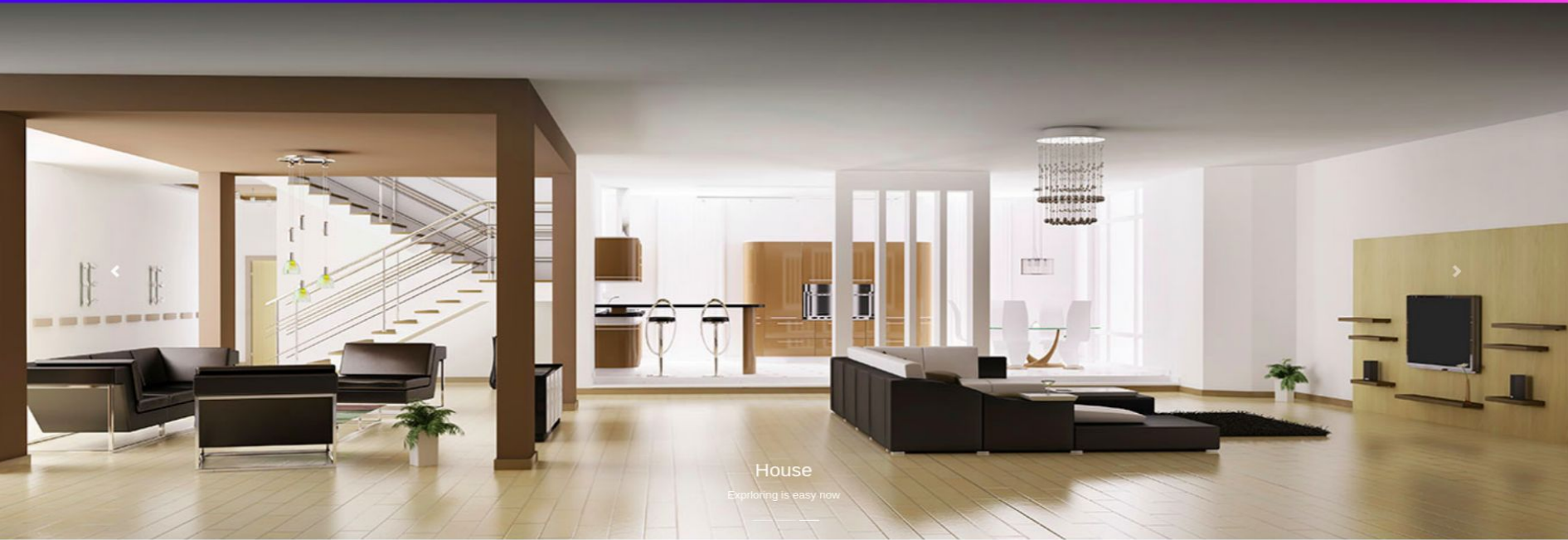
Welcome to expRSL,Explore rent, lease ,sales

Rent

Explore houses for rent here.Choose your desired place ,price etc,Easy to use.Hope you would have a great deal!

Sale

Sell your property for best price,Our app makes communication between customers Easy .Hope you would have a great deal!

Lease

lease your property for best price,Our app makes communication between customers Easy .Hope you would have a great deal!!

Explore houses for rent here.Choose your desired place ,price etc,Easy to use. Sell your property for best price,Our app makes communication between customers Easy . lease your property for best price,Our app makes communication between customers Easy .Hope you would have a great deal!

Quote1

Explore houses for rent here.Choose your desired place ,price etc,Easy to use.Hope you would have a great deal!

Quote2

Sell your property for best price,Our app makes communication between customers Easy .Hope you would have a great deal!

Quote3

lease your property for best price,Our app makes communication between customers Easy .Hope you would have a great deal!!

Built with REACT,JS,HTML,CSS

Our idea is to develop an application , where users could explore nearby houses, plots , furnished rooms , rentals and lease . Our Application would be a medium between , the owners who are ready to sell or rent people who are in search of a property/home.

- If we Click Sales in the home page , the below page is rendered . We see a list of all the available sales in our website , the last part of list contains the sales of current logged in user.

If we click on My Sales button in previous tab , the list hovers to end we see the sales which we have added , the user can edit/delete the sale directly form here.
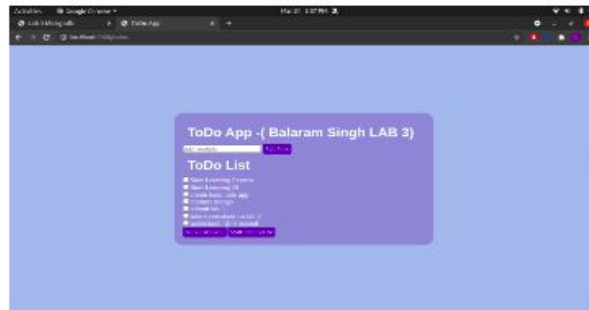
MY Sales

Sale Type : house

Purpose : sale

Address : sunshine hospital , paradise , hyderabad telangana india

Co-ordinates : 17.4411268 , 78.48695409999999

edit | delete

- Below is the form for creation of new sale , all these are required fields , the server automatically parses the location and also stores the latitude and longitude of given location

SalesList   Sales   New Sale   MAP

Create new Sale

OwnerName :

balaram

Sale Type :

apartment

Purpose Type :

rent

Price (In Rupees) :

91836

Location :

charminar hyderabad telangana india

Image :

Choose file   apartment1.jpeg

CreateSale

- The Sale which we have entered in previous slide has been stored along with location coordinates

QUERY RESULTS 1-6 OF 6

_id: ObjectId("6083b116020304a1e16af24c")
ownername: "balaram"
sale_type: "apartment"
purpose: "rent"
price: 199781
location: "charminar hyderabad telangana india"
latitude: "17.3615636"
longitude: "78.4746645"
sale_image: "0dfa96f4-dfe1-4804-a57b-2ab32681eced-apartment1.jpeg"
__v: 0

_id: ObjectId("608596e4e9284a334efaa2d2")
ownername: "balaram"
sale_type: "house"
purpose: "sale"
price: 10000
location: "random location , hyderabad , telangana , india"
latitude: "29.9181048"
longitude: "-95.611423"
sale_image: "a574ef1c-96ba-4b77-9d04-5565c61c6107-apartment1.jpeg"
__v: 0

_id: ObjectId("6085971fe9284a334efaa2d3")
ownername: "bobby"
sale_type: "land"
purpose: "rent"
price: 198987
location: "hussain sagar , hyderabad , telangana india"
latitude: "17.4338708"

Search

- Search for users.
- Can apply filters to search like property type,sale type etc.

balram | Search

Purpose
Sale ☑
Rent ☐
Lease ☑

Sale Type
House ☑
Land ☐
Apartment ☐
Price :○
Value:100000 RS

Search Results

balaram

House☑

Land☐

Apartment☐

Price :———●——————

Value:100000 RS

Search Results

balaram

Sale Type : house

Purpose : sale

Address : random location , hyderabad , telangana , india

Co-ordinates : 29.9181048 , -95.611423

bob

Sale Type : house

Purpose : sale

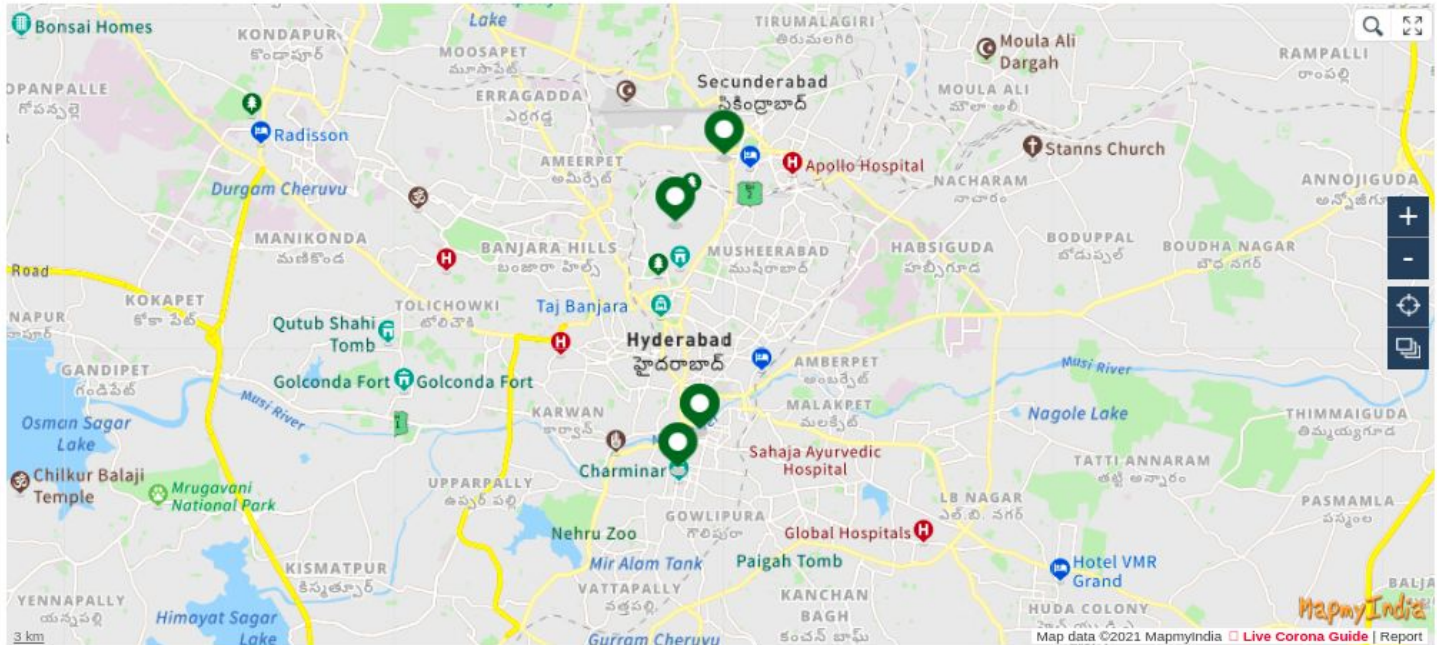Address : sunshine hospital , paradise , hyderabad telangana india

Co-ordinates : 17.4411268 , 78.48695409999999

- If we Click MAP on the sales page , a map containing all the respective markers is rendered , integrated from MAPMYINDIA api , the center of map is by default the latest sale added .

- There are some options available with the MAP , if we press the current Location button , a red marker is highlighted and the map centers to our IP location . (Map Type , Zoom in , Zoom out are some other available features).
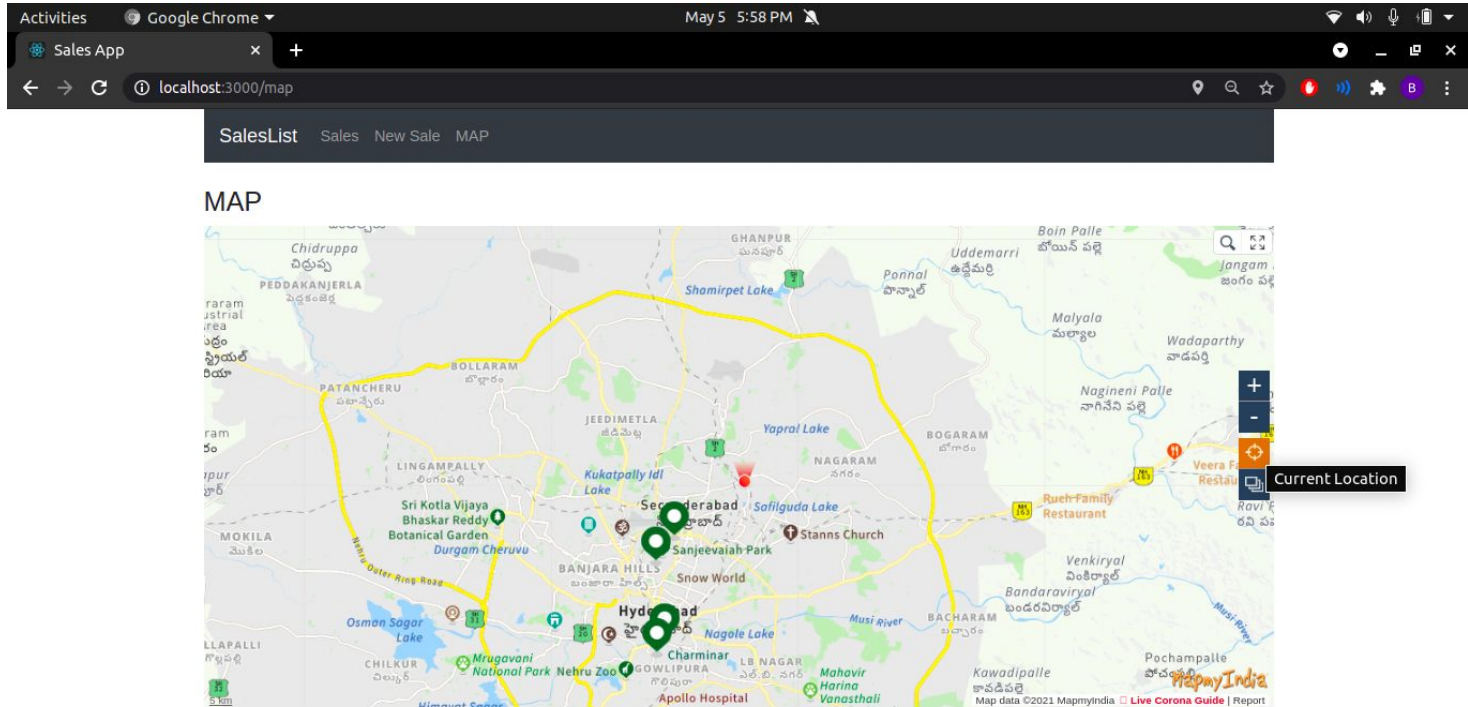
Profile Page

Taj Hotel
Hyderbad

4	0	0
Photos	Likes	Shares

Edit profile

About

Name
email
Contact
address

Recent photos

Show all

User Details

About

Name
email
Contact
address

Recent photos

Show all

User Profile

User Name

Contact

Email

Address
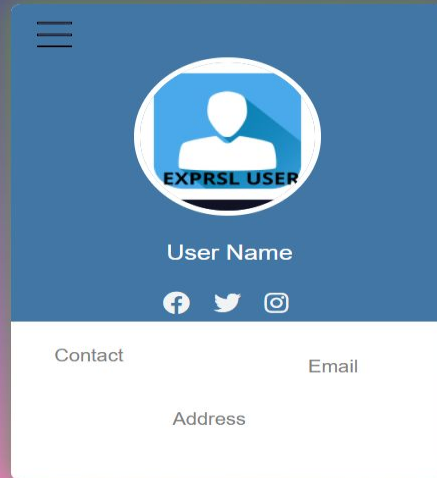
About Page

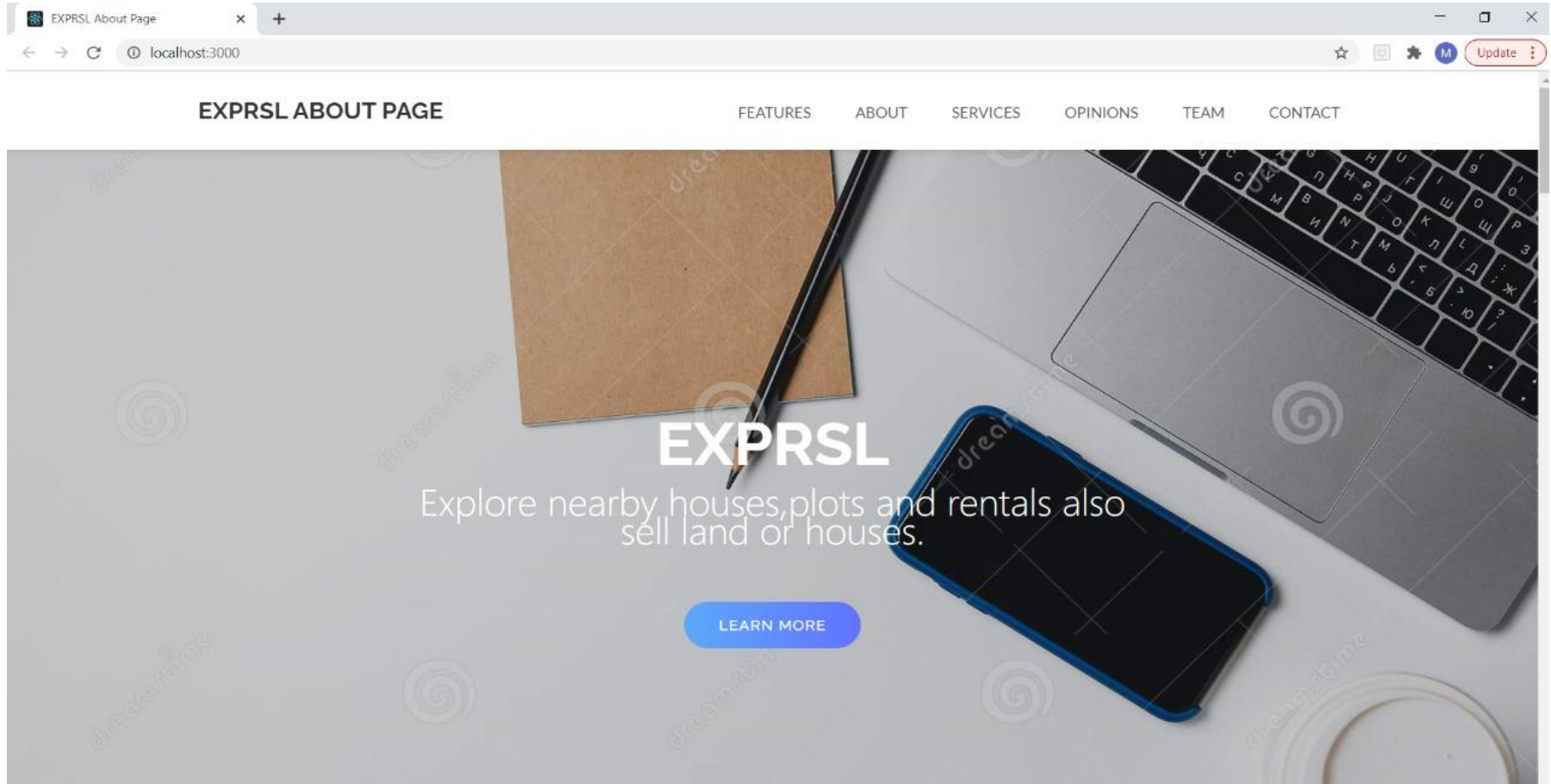**EXPRSL ABOUT PAGE**

FEATURES   ABOUT   SERVICES   OPINIONS   TEAM   CONTACT

FEATURES

Chat

Real time chat between customers for price
discussion, for registration and doubts clarification .

Search

You can search particular owner name or search by
property type or search by type of purpose.

Map

It shows visual presentation of houses and lands.

localhost:3000

EXPRSL ABOUT PAGE

FEATURES   ABOUT   SERVICES   OPINIONS   TEAM   CONTACT

GET IN TOUCH WITH US

Please fill out the form below to send us an email and we will get back to you as soon as possible.

Name

Email

Message

SEND

Contact Info

Address
sricity , Chittoor , Ap

Phone
+00 1515151515

Gmail
exprsl@gmail.com

EXPRSL ABOUT PAGE

FEATURES   ABOUT   SERVICES   OPINIONS   TEAM   CONTACT

OUR SERVICES

Following are services provided by us

Exploring rentals

Our company helps in exploring rentals in area selected by customers .

Buy permanent houses

Our company helps in buying permanent houses with reasonable prices .

Buy property or land

Our company helps in buying property or land following all guidelines with more offers .

Sell property or land

Our company would be a good medium between persons who are selling property or land and whoever need them .

expRSL Chat

expRSL Chat

Join thousands of group chats or create one of your own and invite your friends. Group chat rooms created by you are easily accessible to other users through search. These group chat rooms with strangers are best.

Start Chatting

- Search For A Room
- Create A ROOM
- Join Available Chat rooms

Chat Rooms Create or Search Page

Available Chat Rooms

Search 🔍

Results

Please search a group before joining

JOIN ROOM

expRSL

Explore Rent Sale Lease

expRSL Chat Room

Create Private Chat Rooms

Dicscuss confidential matters securely !!!

Create New Room

NEW ROOM

Available Chat Rooms

EAD_sample

JOIN ROOM

Search   🔍

Results

Please search a group before joining

JOIN ROOM

expRSL

Explore Rent Sale Lease

expRSL Chat Room

Create Private Chat Rooms

Dicscuss confidential matters securely !!!

Create New Room

NEW ROOM

- Two users shankar and mani joined into the room we created previously.

Chat Page

- When you enter into room we can see message "You joined". Then you can start chatting.

When you joined into a room others who already joined in that room can see a message that you joined.

- Here, Mani can see his sent message and mani can see message sent by shankar.

- This is the chat page from shankar side, he can see his sent message and mani message.

expRSL Review and Rating
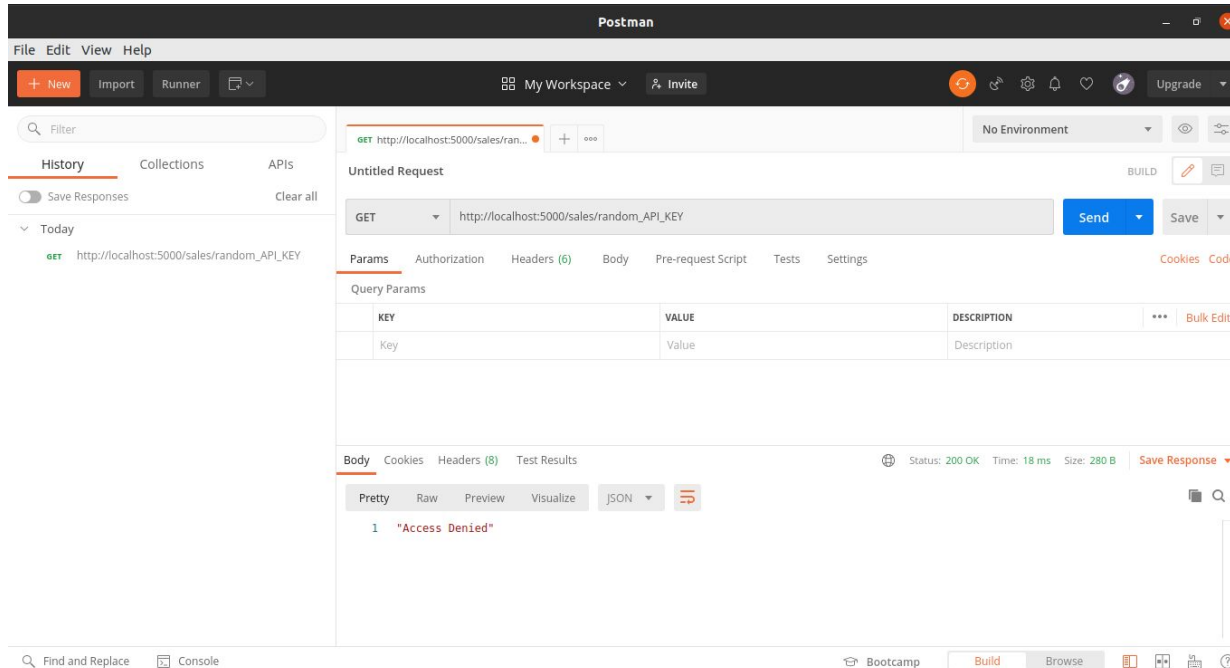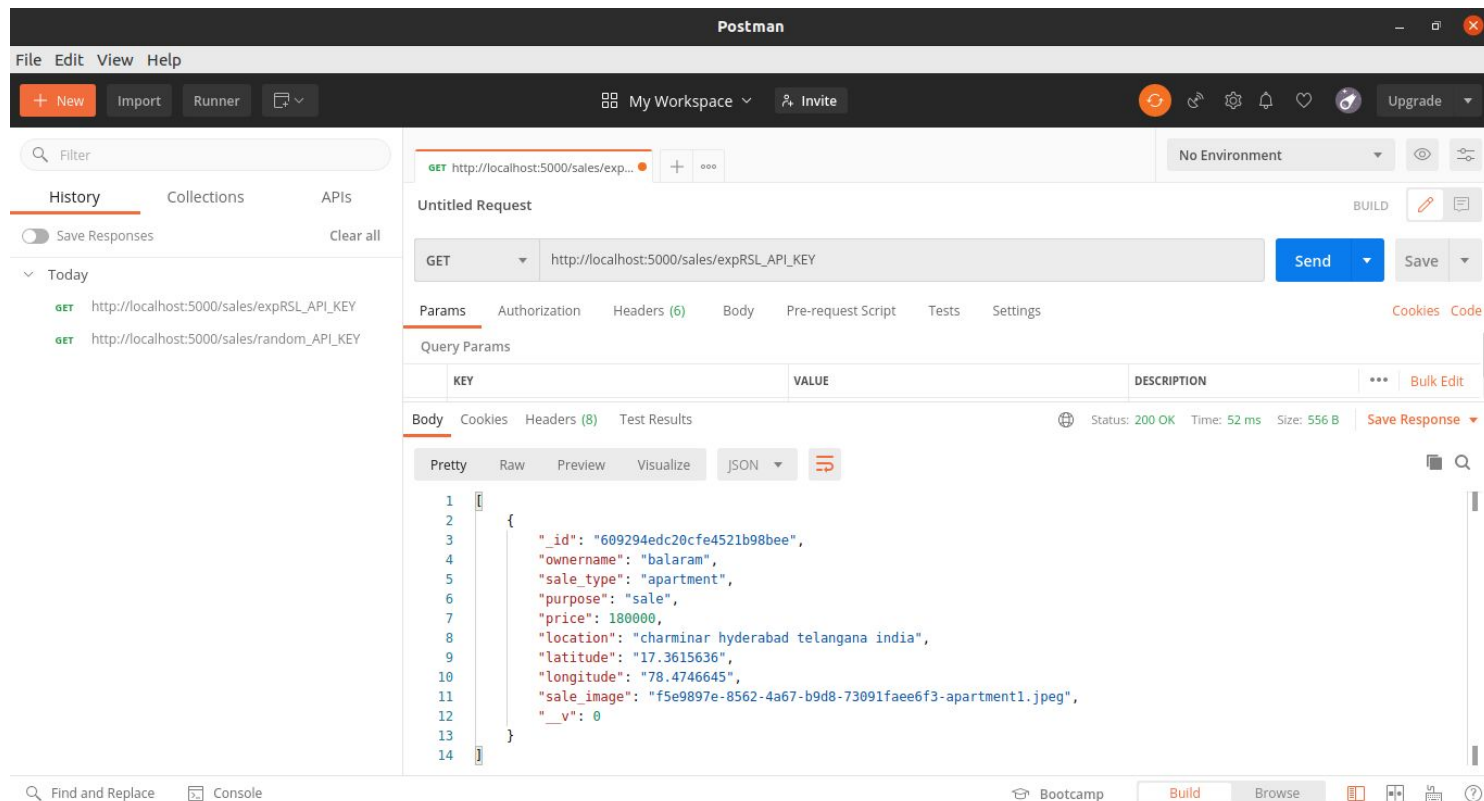

Backend needs to be integrated

EAD Feature : Security

- If we call and API to database with any random API key , we won't get the data

- The required data will be fetched only if the proper API key is used

- This feature is implemented as :

```javascript
router.route('/:API_KEY').get((req,res) => {
  if(req.params.API_KEY != "expRSL_API_KEY") {
    res.status(200).json('Access Denied');
  }
  else {
  Sale.find()
    .then(sales=>res.json(sales))
    .catch(err=>res.status(400).json('Error : '+err));
  }
});
```

- Password Hashing ,the password of user is stored as a encrypted text

This feature is implemented as ,
- Figure 1 : while creating a user
- Figure 2 : during login functionality

```javascript
// hash the passwords

const salt = await bcrypt.genSalt();
const passwordHash = await bcrypt.hash(password, salt);

//save a new user account to the db

const newUser = new User({
    email, passwordHash, first_name, last_name, contact_no, address
});
```

```javascript
const passwordCorrect = await bcrypt.compare(password, existingUser.passwordHash);
if (!passwordCorrect)
return res.status(401).json({errorMessage: "Wrong email or password."});
```

Contribution

User authentication (Login, SignUp) (Frontend+Backend) - Mani Tej

Home Page - Shankar Sreenu

About Page - Bhanu Kishore

Profile Page - Goutham

Sales (Create, edit, delete), Map - Balaram Singh

Search (sales) - Shankar sreenu

Chat (Front-end + Backend - Using Sockets.io) - Mani Tej and Shankar

EAD Features (Security): Balaram, Mani Tej, Shankar

Integration : Balaram, Mani Tej, Shankar

Our Team Members - Group-29

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