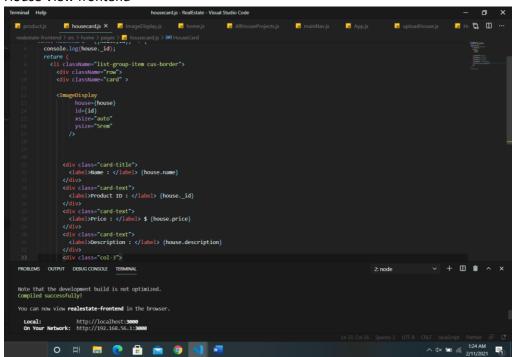
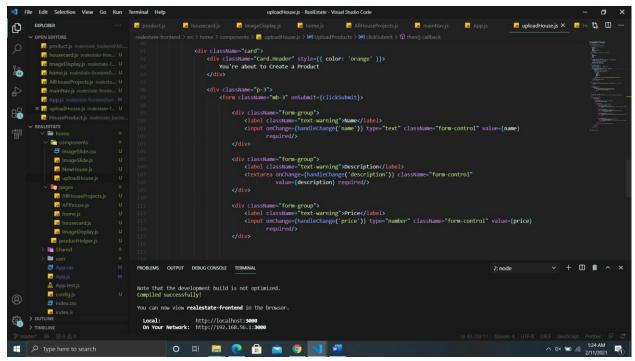
- 1. Describe the scenario using your own words According to my IT number, the scenario is RealEstate. So I choose to implement a real estate house advertising website. Here the user can view the houses build by the real estate company and connect with the staff to get further details. The user must have a valid email and password to create an account. Once sign up to the website, the user can sign in using the password and email. Only the admin can add houses to the website. Since this is a small and individual app, I didn't implement many functionalities. The main functionalities are Log In, Sign In, House Project view.
- 2. Implementation of the main three functionalities (both frontend and backend).

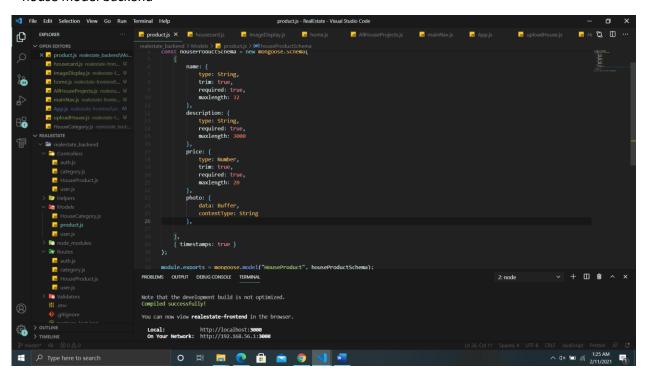
House View frontend



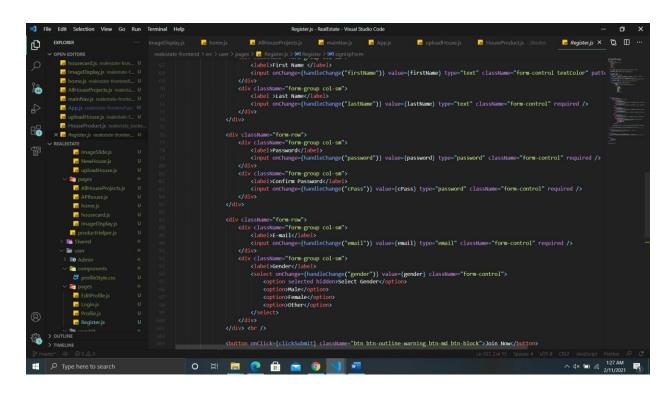
Add house(By admin) frontend



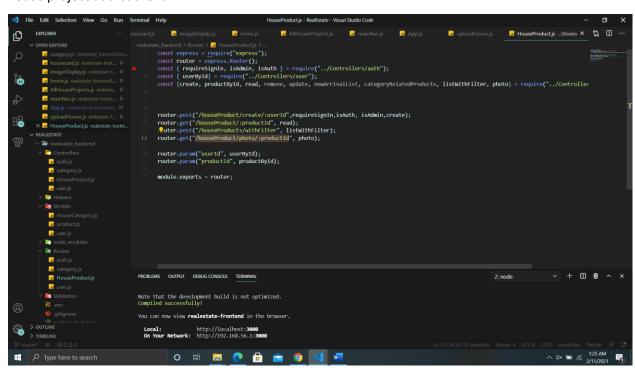
house model backend



Sign In frontend



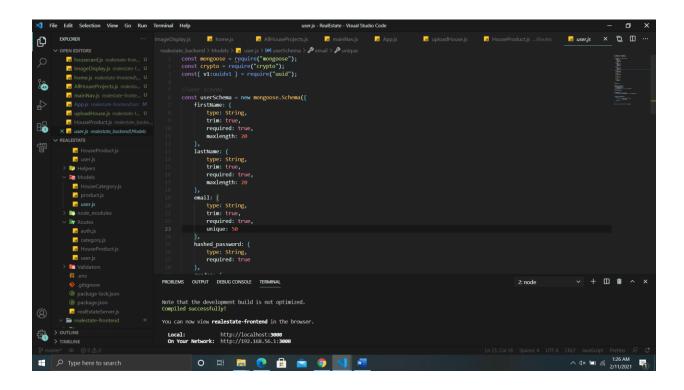
House project add backend

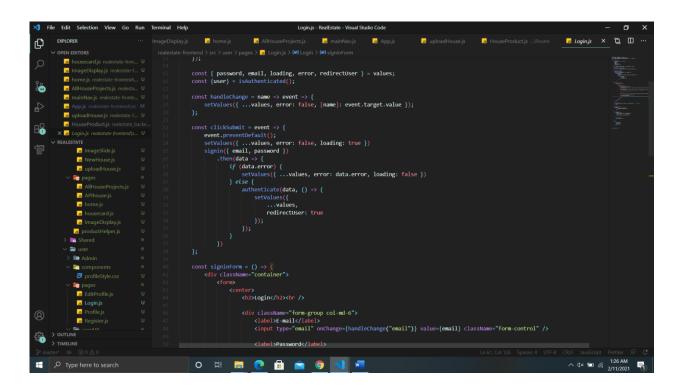


User profile edit frontend

```
| The first selection Now 60 | Now 100 | Now 1
```

User model backend





login frontend

```
Login.js - RealEstate - Visual Studio Code
                                                                                                                                                                                                                             s uploadHouse.js s HouseProduct.js ...\Routes
                                                                                                                                                                                                                                                                                                                 ್ಷ Login.js × 🕻 🏻 …
Ð
            EXPLORER
                                                                       realestate-frontend > src > user > pages > 👪 Login.js > 🐼 Login > 🐼 signinForm
 ۵
                mainNav.js realestate-
us App.js realestate-fronte
uploadHouse.js reales
            JS HouseProduct.js realestate_backe.

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 H
                                                                                        uploadHouse.js
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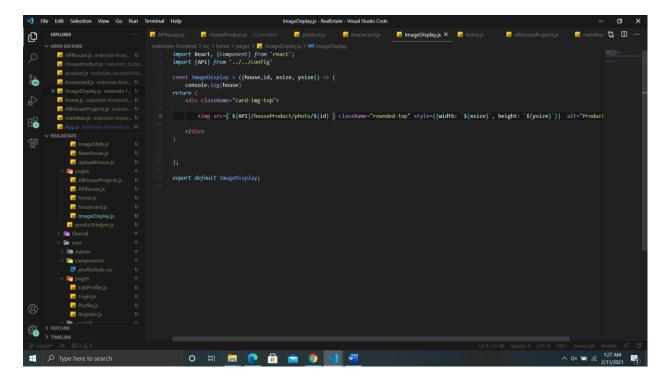
puploadHouse,js

puploadHouse,js
                                                                                         const redirect = () => {
   if (redirectuser) {
      if (user && (user.role === 1 || user.role === 2)) {
        return (Redirect to= "/admin/dashboard" />
      } else {
      cotume (Redirect to= "/admin/dashboard" />
      } else {
      cotume (Redirect to= "/amen/confile" // )
                                                                                            return <Redirect to="/user/profile" />
}
}
                     components

profileStyle.css
                                                                                               if (isAuthenticated()) {
    return <Redirect to="/" />
}
                     pages

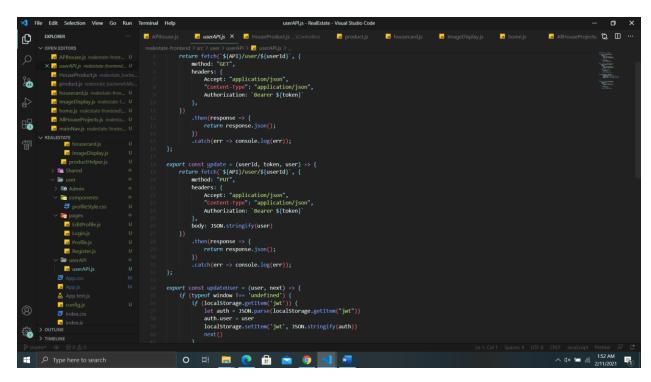
s
EditProfile.js
                       JS Login.js
JS Profile.js
Register.js
                                                                                               <div>
    {showLoading()}
    {showError()}
 £60
                                                                                                                                                                                                                                                                                                                   ^ q× 1:26 AM 2/11/2021
                                                                                           O H 🔚 🥲 🔒 😭 🬖 🛂
Type here to search
```

image display of house card view file in frontend



3. At least one implemented RESTful web service (implemented code).

```
realestate-frontend > src > home > pages > 🗷 APIhouse.js > 🔎 getProductsForHome
     import React from "react";
import { API } from "../../config";
     export const createProduct = (product, token, userId) => {
         console.log(product);
         return fetch(`${API}/HouseProduct/create/${userId}`, {
             method: 'POST',
            headers: {
                Accept: 'application/json',
                Authorization: `Bearer ${token}`
             body: product
         }).then(response => {
                return response.json();
                console.log('error in product creation',err);
     export const getProductsForHome = (sortBy,limit) => {
         return fetch() ${API}/houseProducts/withFilter?sortBy=${sortBy}&order=desc&limit=${limit}`, {
            method: "GET"
             .then(response => {
                return response.json();
             .catch(err => console.log(err));
          o # 🥫 🥲 🔒 🙀 🥦 📢 🚾
```



4. At least one Mongo query for a specific Mongo collection (implemented code).

```
Terminal Help
                                                   • HouseProduct.js - RealEstate - Visual Studio Code
                    userAPI.js
                                       ■ HouseProduct.js ...\Controllers ■ ■ product.js ■ housecard.js
                                                                                                                  Js ImageDisplay.js
                                                                                                                                                            Js AllHousePro
         ite_backend > Controllers > Js Hous
         const HouseProduct = require('../Models/product');
         const formidable = require('formidable');
         const _ = require('lodash');
const fs = require('fs');
         const {isAuth} = require("./auth");
         const {errorHandler} = require('../helpers/dbErrorHandler');
         exports.read = (req, res) => {
    req.product.photo = undefined;
              return res.json(req.product);
         exports.create = (req, res) => {
    let form = new formidable.IncomingForm();
               form.keepExtensions = true;
               form.parse(req, (err, fields, files) => {
                   if (err) {
                       return res.status(400).json({
   error: 'Image could not be uploaded'
                   const {name, description, price} = fields;
                   if (!name || !description || !price) {
                        return res.status(400).json({
    error: 'All fields are required'
                   let product = new HouseProduct(fields);
                   if (files.photo) {
                        if (files.nhoto.size > 10000001) {
```

```
Js userAPI.js
                                JS HouseProduct.js ...\Controllers JS product.js JS housecard.js
                                                                                                   Js ImageDisplay.js
                                                                                                                        Js home.js
                                                                                                                                         Js AllHouseProje
realestate_backend > Controllers > Js HouseProduct.js >
       exports.update = (req, res) => {
           let form = new formidable.IncomingForm();
           form.keepExtensions = true;
           form.parse(req, (err, fields, files) => {
               if (err) {
                  return res.status(400).json({
    error: 'Image size should be less than 1mb in size'
               let product = req.product;
               product = _.extend(product, fields);
               if (files.photo) {
                    if (files.photo.size > 1000000) {
                          error: 'Image size should be less than 1mb in size'
                   product.photo.data = fs.readFileSync(files.photo.path);
                   product.photo.contentType = files.photo.type;
               product.save((err, result) => {
                   if (err) {
                           error: errorHandler(err)
                   res.json(result);
```

- 5. At least one unit test using JEST to evaluate a core logic or a service (implemented code).
- 6. A screenshot of the home page of the running application on localhost

