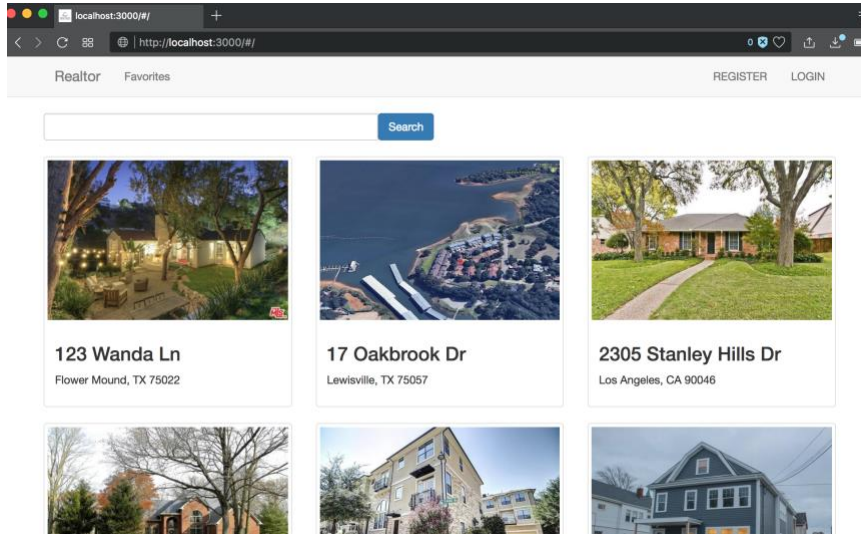


## Online Realtor

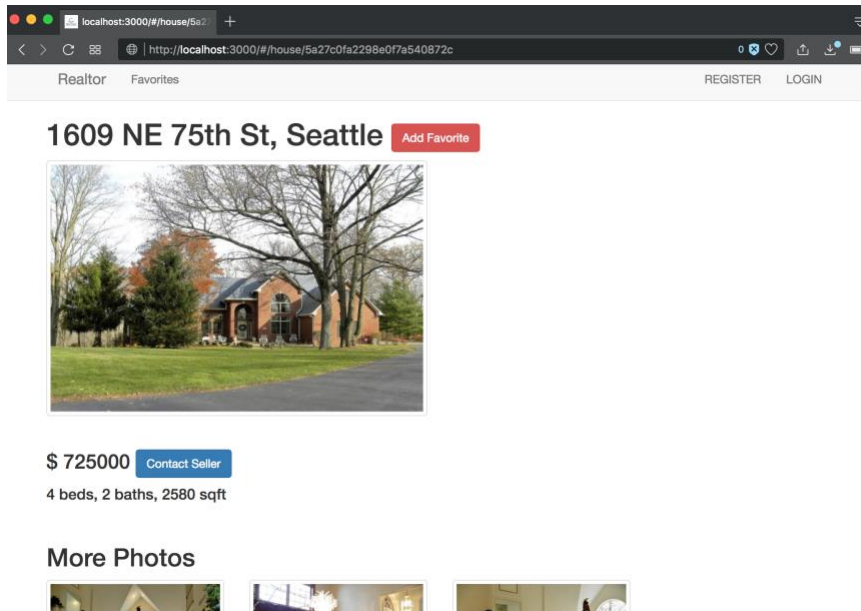
### Project Description

For this project, we built a realtor website with basic functionalities:

- The homepage shows a list of properties.



- Detail page shows the detail of each item. On the detail page, there is a “contact seller” button leading us to the seller’s information page.



- We can search for a specific property via the Search bar.
- Registration form with validation allows us to register a new user to the system.

Realtor
Favorites

## Register Page

- User can login and see his/her favorite list. User is able to add and delete a property for the favorite list.

Realtor
Favorites

## Login Page

### Favorite List



**123 Wanda Ln**  
Flower Mound, TX 75022



**2305 Stanley Hills Dr**  
Los Angeles, CA 90046

### 123 Wanda Ln, Flower Mound



### 2305 Stanley Hills Dr, Los Angeles



- Admin user has the same interface with regular users. There is an extra “admin” link for admin user to list, add, delete and update all the property items.

admin
LOGOUT

Add a House

- 123 Wanda Ln, Flower Mound, TX 75022 ✕
- 17 Oakbrook Dr, Lewisville, TX 75057 ✕
- 2305 Stanley Hills Dr, Los Angeles, CA 90046 ✕
- 1609 NE 75th St, Seattle, WA 98115 ✕
- 7403 Fireoak Dr, Austin, TX 78759 ✕
- 4431 N Whipple St, Chicago, IL 60625 ✕
- 28 Saint Gregory St Unit 1, Boston, MA 20124 ✕
- 9311 Thoroughbred Ct, Indianapolis, IN 46278 ✕
- 7245 Kasko Dr, Plano, TX 75024 ✕

Realtor

Favorites

Add a House

Address

required

City

State

Zip

## Delete a House

Are you sure you want to delete this house?

- Address: 7245 Kasko Dr
- City: Plano
- State: TX

Yes, Delete

No, Go back

## Edit a House

Address

123 Wanda Ln

City

Flower Mound

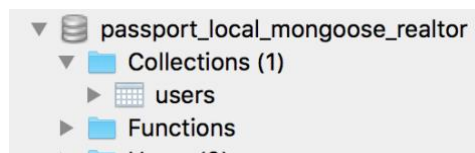
State

TX

Zip

- User authentication and authorization: 1) When not logged-in and click the “favorite list” button, we’ll be prompted or redirected to the login page. 2) Admin portal for CRUD operations only visible to admin user. Regular users and non logged-in browsers don’t have access to the admin exclusive operations.

### Database Design



We adopt mongodb as the database. The main database is “**realtor**” with two collections: “**House**” for keeping property details and “**Favorite**” for storing favorite list. There is also a database created by passport.js for user login information.

The following is an example of an item in “House” collection:

```
{
  "_id" : ObjectId("5a27be132298e0f7a5408728"),
  "address" : "123 Wanda Ln",
  "city" : "Flower Mound",
  "state" : "TX",
  "zip" : "75022",
  "beds" : "3",
  "baths" : "2",
  "area" : "1759.0",
  "price" : "255000.0",
  "sellernm" : "Jane Doe",
  "sellerem" : "xxx@xxx.com",
  "sellerph" : "123-123-1234",
  "isAval" : "Yes"
}
```

The following is an example of an item in “Favorite” collection:

```
{
  "_id" : ObjectId("5a27ee52c9bf431359cb94a9"),
  "user_id" : ObjectId("5a27eccfc9bf431359cb94a2"),
  "house_id" : ObjectId("5a27be132298e0f7a5408728")
}
```

### Languages/frameworks used for implementation

We use **MEAN stack** to build the application. So we basically use **JavaScript** to complete the whole project. For front-end design, we use **Bootstrap** and **Angular JS** framework and the back-end is built on **Express** framework, **Node.JS** and **MongoDB**.

**Team Members**

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**Work division among team members**

CHEN, Junshuo : registration validation, search functionality

CHEN, Yuzhe : database design, homepage, detail page, favorite list

WAN, Hao : CRUD operations for admin, report