

# SW ENGINEERING CSC 648/848 FALL 2022

EZRent

By CyberDesign

Team 4

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## Milestone 3

**11/10/2022**

## History Table:

Version	Latest revision
M3V1	11/10/2022
M3V2	

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# 1. Data Definitions

## User

- Anyone who uses the site
- No data items

## Registered User

- A user who has an account
- email, password, phone number, name

## Landlord

- A Registered User who can post listings and be reviewed by other Registered Users
- landlord rating
- Post listings
- Edit listings

## Renter

- A Registered User who can post reviews about Landlords or Property Listings
- renter rating

## Prospective Renter

- A Renter who advertises themselves to Landlords
- list of listing attributes that they're looking for

## Listing

- (Also referred to as Property Listing) a post containing a property's information
- listing rating, images (max 20), landlord, property

## Comment

- A posted field of text posted to a Listing or another Comment
- author, message, number of likes, number of dislikes

## Direct Message

- Messages between two Registered Users
- sender, time sent, whether it was read or not, message

## Profile:

- A webpage containing information about a Registered User
- bio, profile picture, rating

## Search Result

- A list of Listings or Profiles outputted by the search engine
- rating, associated attributes

## Review

- A post to a Listing or Landlord
- description, rating

## Rating:

- A way to analyze a person's experience with a Landlord by choosing 1 out of 5 stars (5 being the best)
- decimal average of all ratings posted about a particular profile or listing

## Property

- Housing owned by a Landlord
- price, rating, rooms, description, location, size

## Block List

- A list of Registered Users that a particular Registered User has blocked

**Moderator**

- Someone who handles reports and poor behavior
- Access to Registered Users comments/ratings

**Banned List**

- A list of Registered Users that are not allowed to use the site's services

**Report**

- A message sent to Moderators indicating that a Registered User doesn't comply to the site's community guidelines
- includes a reason, and a link to the violation

**Help Page**

- Teaches Users how to use the app's services and allows them to give feedback about the site

**Site Review:**

- User's feedback about the site
- comments, rating, experience

**Filter:**

- Search engine parameters
- price, location, rooms, rating

**Login:**

- An account's way of accessing a Profile
- email, password

**Create account**

- The ability to make a profile with a first name, last name, email and password.
- landlord, renter

**Map**

- The view and area of the listings on a visual diagram
- addresses, links to available properties

**Save list**

- A list of saved properties where a User can go back to view the same listings that were being viewed.
- property listings

## 2. Functional Requirements

### Priority 1

Criterion	Requirements
1. User Registration	1.a. Users must be able to register an account to become a Registered User 1.b. The system must allow Users to agree to a Privacy Policy 1.c. Users must be able to browse the website without an Account 1.d. The system must allow Users to provide their personal information 1.e. The system must allow Users to create a username for their account 1.f. The system must allow Users to change their personal information 1.g. The system must allow Registered Users to become a Landlord
2. User login	2.a. The system must allow Registered Users to log in their account. 2.b. The system must allow Registered Users to reset their password. 2.c. The system must allow Registered Users to browse the website 2.d. System must allow Registered Users to log out
3. Website Header	3.a. The Website Header must include the search feature 3.b. The Website Header must be able to link to the Registration Page 3.c. The Website Header must be able to link to the Login Page 3.d. All Registered Users must be able to navigate to their Profile 3.e. All pages must include the Website Header
4. Home Page/Navigation	4.a. The Home Page must be accessible to all Users 4.b. Users must be able to navigate to the Home Page from any page
5. Website Footer	5.a. The Website Footer must allow Users to see the publisher's information 5.b. All pages must include the Website Footer
6. Search	6.a. Users must be able to search for Property Listings 6.b. Users must be able to search for Landlords 6.c. Users must be able to search Listings by address 6.d. Users must be able to search Landlords by name

7. Search Filters	<p>7.a. Users must be able to filter their searches</p> <p>7.b. Users must be able to filter Property Listings by price</p> <p>7.c. Users must be able to filter Property Listings by address</p> <p>7.d. Users must be able to filter Property Listings by Amenities</p> <p>7.e. Users must be able to filter Property Listings by number of rooms</p> <p>7.f. Users must be able to filter Property Listings by number of bathrooms</p> <p>7.g. Users must be able to filter Property Listings by size</p> <p>7.h. Users must be able to filter Property Listings by rating</p>
8. Search Results	<p>8.a. Users must be able to visit Property Listing pages from the search results page</p> <p>8.b. Users must be able to visit Landlord Profile pages from the search results page</p> <p>8.c. Users must be able to sort their search results</p> <p>8.d. Users must be able to sort their Listing search results by price</p> <p>8.e. Users must be able to sort Listing search results by rooms</p> <p>8.f. Users must be able to sort Listing search results by distance</p> <p>8.g. Users must be able to sort Listing search results by rating</p> <p>8.h. Registered Users must be able to sort Renter search results by rating</p>
10. Ratings	<p>10.a. Renters must be able to rate Properties</p> <p>10.b. Renters must be able to rate Landlords</p> <p>10.c. Users must be able to see Ratings</p>
11. Reviews	<p>11.a. System must allow Renters to write Reviews</p> <p>11.b. System must allow Landlords to write Comments to Reviews</p> <p>11.c. System must allow Renters to reply to Comments</p> <p>11.d. System must allow Registered Users to rate Comments</p> <p>11.e. System must allow Registered Users to rate Reviews</p> <p>11.f. System must allow Landlords to reply to Comments</p> <p>11.g. System must allow Users to read Reviews</p> <p>11.h. System must allow Users to read Comments</p> <p>11.i. System must allow Users to view Ratings</p> <p>11.j. System must allow Registered Users to change their ratings to Reviews</p> <p>11.k. System must allow Registered Users to change their ratings to Comments</p>

12. Property Listing	12.a. Landlords must be able to post Listings 12.b. Landlords must be able to delete Listings 12.c. Landlords must be able to mark Listings as currently rented 12.d. Landlords must be able to unmark Listings as currently rented 12.e. Landlords must be able to post images to Listings 12.f. Landlords must be able to write descriptions to Listings 12.g. Landlords must be able to set locations to Listings 12.h. Landlords must be able to set a price to Listings 12.i. Landlords must be able to set a size for Listings 12.j. Users must be able to see Listings 12.k. Users must be able to find the Landlord page of the one who posted the Listing 12.l. Users must be able to post Reviews to Listings 12.m. Registered Users must be able to post Reviews to Listings 12.n. Renters must be able to save Listings to favorites
13. Landlord Profile	13.a. System must provide a Profile for Landlords upon Account creation 13.b. Landlords must be able to set a bio to their Profile 13.c. Users must be able to see a Landlord Profile 13.d. Users must be able to see Reviews about a Landlord on the Landlord Profile 13.e. Users must be able to see a Landlord's rating on their Profile 13.f. Users must be able to see a Landlord's contact information 13.g. Users must be able to see a Landlord's name 13.h. Users must be able to see a Landlord's email 13.i. Registered Users must be able to post Reviews to Landlord Profiles
14. Renter Profile	14.a. System must provide a Profile for Renters upon Account creation 14.b. Renters must be able to set their Account to Prospective Renter 14.c. Renters must be able to set a bio to their Profile 14.d. Users must be able to see public Renter Profiles 14.e. Renter Profiles must show Renter ratings 14.f. Renters must be able to edit their Profile 14.g. Renter Profiles must show Renter history
15. Storage	16.a. System must store Registered User Account information 16.b. System must store Registered User Profile information 16.c. System must store Property Listing information 16.d. System must store Reviews 16.e. System must store Comments 16.f. System must store Saved Properties





## Priority 2

Criterion	Requirements
1. User Registration	1.a. The system must send an email to confirm when the user created the account. 1.b. The system must provide a way for Users to verify their Account
2. User login	2.a. The system must provide a way for Registered Users to log in to their account if they forgot their password
7. Search Filters	7.a. Users must be able to control the amount of search results displayed to them
8. Saved Listings	8.a. Registered Users must be able to view all saved Property Listings 8.b. Registered Users must be able to save Property Listings to interact with later 8.c. Registered Users must be able to remove saved Property Listings 8.d. Registered Users must be able to visit Property Listing pages from the Saved Listings page
10. Ratings	10.a. Landlords must be able to rate Renters
11. Reviews	11.a. System must allow Renters to edit Reviews 11.b. System must allow Renters to edit Comments 11.c. System must allow Landlords to edit Comments 11.d. System must allow Renters to delete Reviews 11.e. System must allow Renters to delete Comments 11.f. System must allow Landlords to delete Comments
12. Property Listing	12.a. Landlords must be able to edit Listings 12.b. Landlords must be able to edit fields for Listings to be filtered through the search engine 12.c. Renters must be able to compare multiple Listings 12.d. Renters must be able to comment under Listings
13. Landlord Profile	13.a. Landlords must be able to edit their Profile 13.b. Users must be able to see a Landlord's phone number 13.c. Registered Users must be able to Direct Message a Landlord from their Profile
14. Renter Profile	14.a.
16. Storage	16.a. System must store Direct Messages

	16.b. System must store Saved Searches 16.c. System must store Banned Users 16.d. System must store Blocked Users
17. Moderation	17.a. Registered Users must be able to report Reviews 17.b. Registered Users must be able to report Comments 17.c. Registered Users must be able to report Listings 17.d. Registered Users must be able to report other Registered Users 17.e. Moderators must be able to confirm a report 17.f. Moderators must be able to send warnings to users 17.g. Moderators must be able to delete Reviews 17.h. System must allow Moderators to log in 17.i. System must allow Moderators to log out
19. Direct Message	19.a. Registered Users must be able to send Direct Messages to other Registered Users 19.b. Registered Users must be able to edit Direct Messages 19.c. Registered Users must be able to delete Direct Messages 19.d. Registered Users must be able to forward Direct Messages 19.e. Registered Users must be able to reply to a Message 19.f. Registered Users must be able to react to a Message 19.g. Registered Users must be able to pin a conversation 19.h. Registered Users must be able to delete a conversation 19.i. Registered Users must be able to search for a Direct Message 19.j. Registered Users must be able to hide a conversation 19.k. System must show that a Direct Message has been sent 19.l. System must show that a Direct Message has been read 19.m. System must allow Registered Users to turn off read receipts

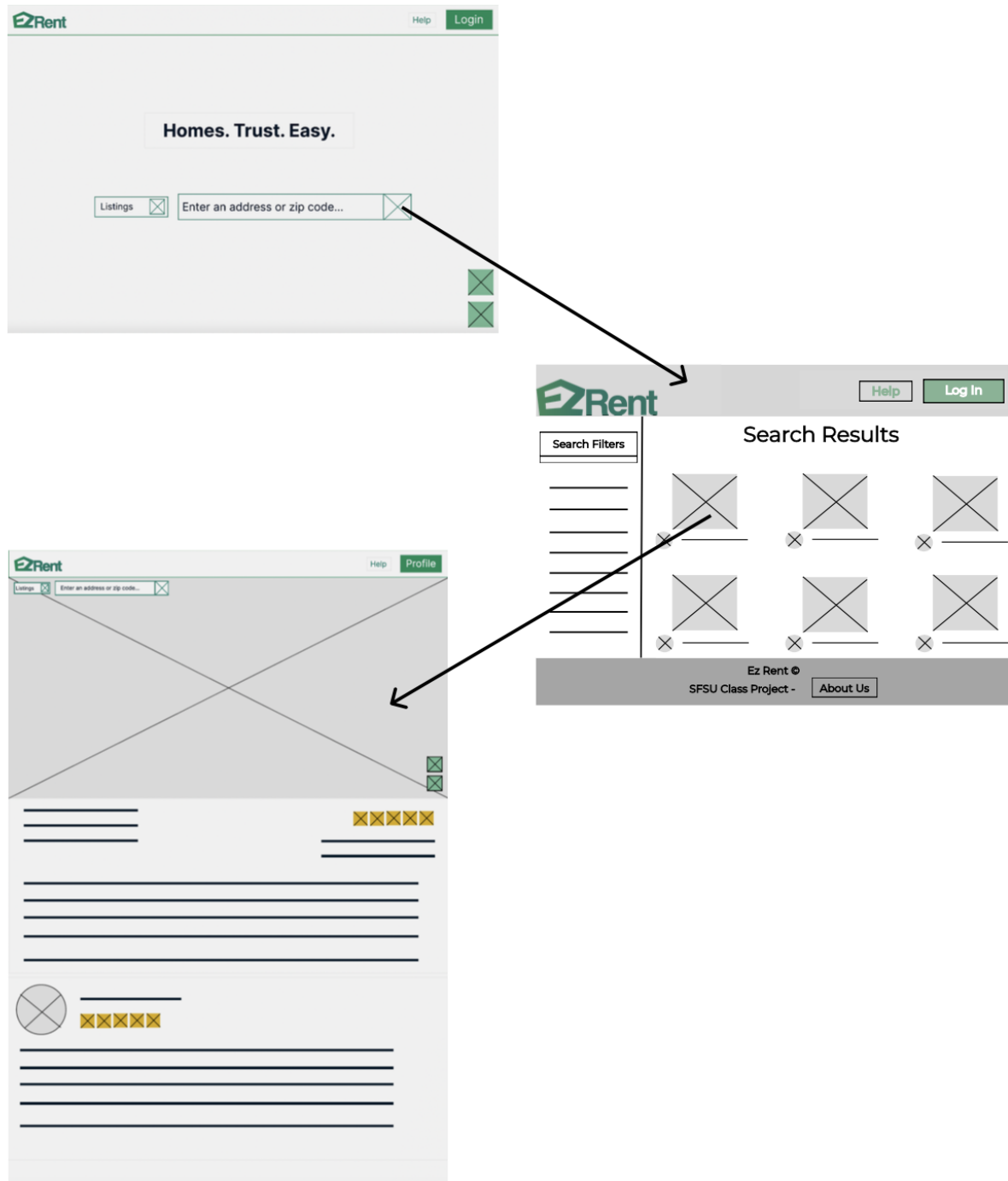
### Priority 3

Criterion	Requirements
4. Home Page/Navigation	4.a. Users must be able to navigate to previously visited pages
6. Search	6.a. Landlords must be able to search for Renters
7. Search Filters	7.a. Users must be able to filter Property Listings by Landlord 7.b. Users must be able to filter Property Listings by Landlord properties 7.c. Users must be able to filter Landlords by rating 7.d. Users must be able to filter Landlords by name 7.e. Users must be able to filter Landlords by experience 7.f. Landlords must be able to filter Prospective Renters by rating 7.g. Landlords must be able to filter Prospective Renters by name 7.h. Landlords must be able to filter Prospective Renters by experience 7.i. Users must be able to save a collection of filters 7.j. Users must be able to filter Property Listings within range of a City 7.k. Users must be able to filter Property Listings within range of a zip code. 7.l. Users must be able to filter Landlords by number of reviews
8. Search Results	8.a. Users must be able to compare Property Listing search results 8.b. Users must be able to share search results 8.c. Landlords must be able to visit Prospective Renter Profile pages from the search results page 8.d. Users must be able to sort Landlord search results by rating 8.e. Users must be able to sort Landlord search results by experience 8.f. Registered Users must be able to sort Renter search results by experience
12. Property Listing	12.a. Users must be able to zoom in on images
14. Renter Profile	14.a. Landlords must be able to see private Renter Profiles 14.b. Renters must be able to set their Profile to private 14.c. Registered Users must be able to Direct Message a Renter from their Profile
15. Prospective Renter	15.a. Prospective Renters must be able to set requirements for Listings they are looking for 15.b. Prospective Renters must be able to set their Account back to a regular Renter 15.c. Landlords must be able to view Prospective Renter Profiles

17. Moderation	17.a. Registered Users must be able to block other Registered Users 17.b. Registered Users must be able to unblock other Registered Users 17.c. Moderators must be able to send warnings to users 17.d. Moderators must be able to revoke a Rating 17.e. Moderators must be able to ban Registered Users 17.f. System must allow Admins to add new Moderators 17.g. System must allow Admins to log in 17.h. System must allow Admins to log out 17.i. System must prevent Blocked Users from commenting on Blocker's Listings 17.j. System must prevent Blocked Users from commenting on Blocker's Profile 17.k. System must prevent Blocked Users from seeing Blocker's Profile
18. Help page	18.a. Help Page must include a tutorial of how to use its services 18.b. Help Page must include a way to contact Customer Service 18.c. Registered users must be able to rate experience while using the site
20. Map View	20.a. Users must be able to see a Map of Listings 20.b. Users must be able to interact with a Map of Listings 20.c. Users must be able to select an area of the Map 20.d. System must show search results on a Map 20.e. Users must be able to view listings near their area 20.f. Users must be able to view landlords within their area

### 3. WireFrames

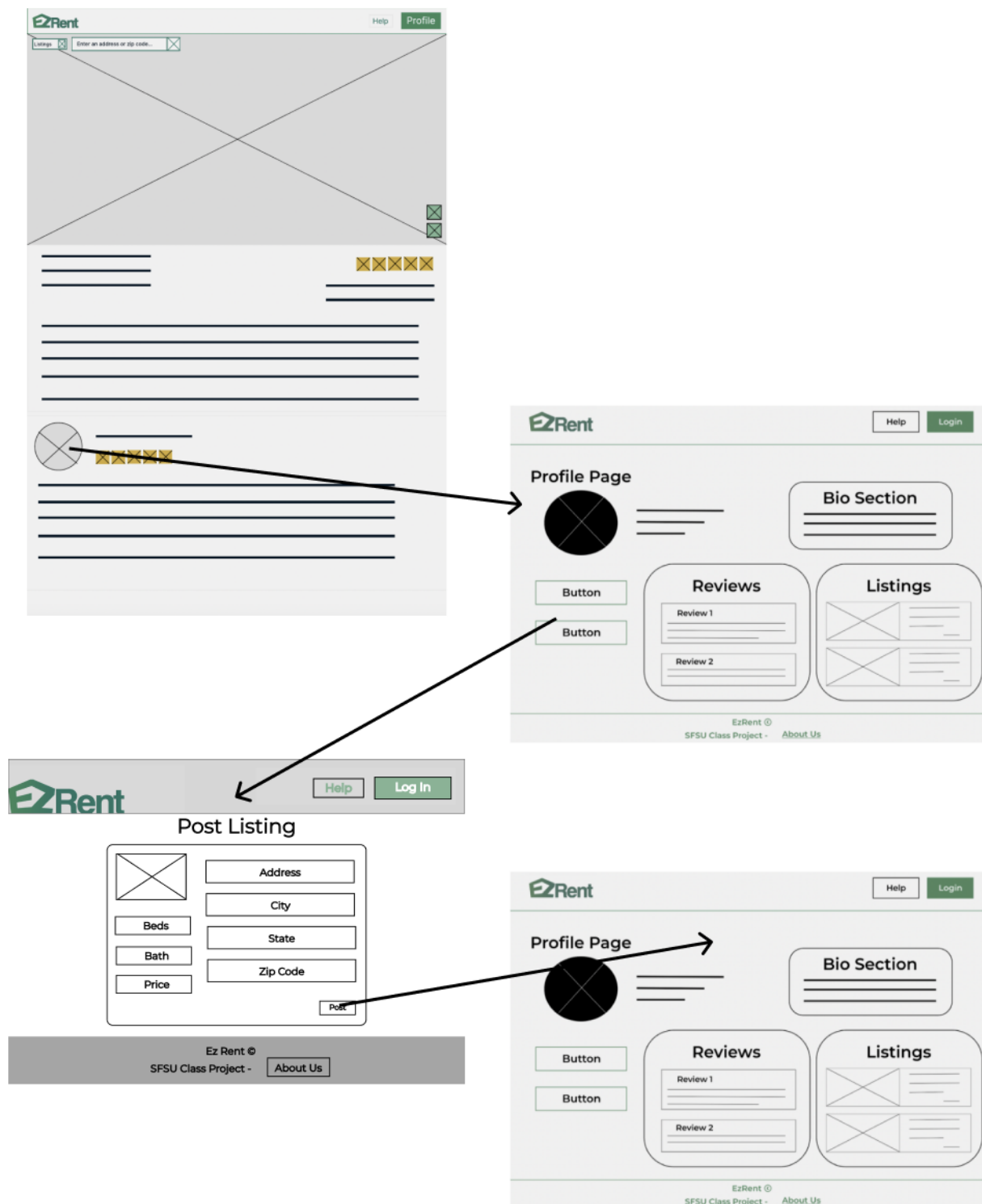
#### 1. Search



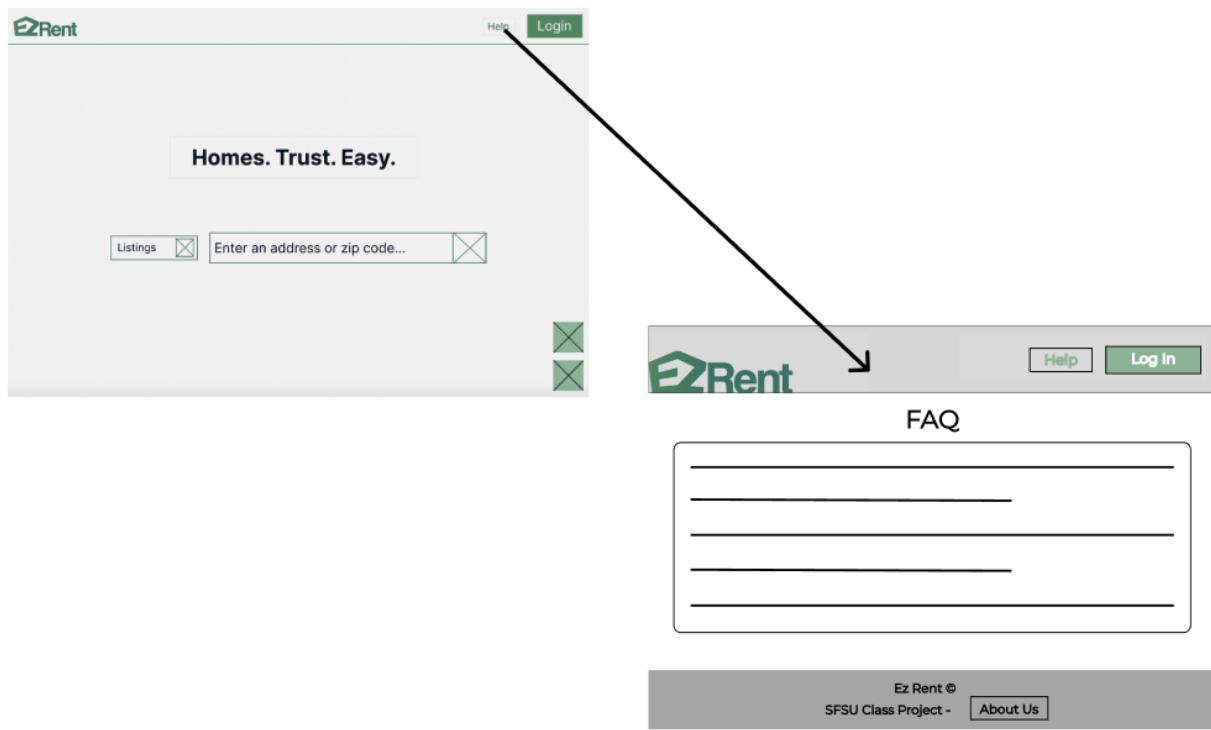
## 2. Login



### 3. Post Listing



## 4. Help Page





## 4. Database Architecture and Organization

### Database Requirements

#### 1. Registered User

- 1.1. A registered user shall post zero many reviews
- 1.2. A registered user shall post a review for many listings
- 1.3. A registered user shall post a review for many landlords
- 1.4. A registered user shall participate in zero or many conversations
- 1.5. A registered user shall send many messages
- 1.6. A registered user shall have one full name
- 1.7. A registered user shall have one profile picture
- 1.8. A registered user shall have one email
- 1.9. A registered user shall have one phone numbers
- 1.10. A registered user shall have one password
- 1.11. A registered user shall file many reports
- 1.12. A registered user shall block many registered users
- 1.13. A registered user shall have many saved listing lists

#### 2. Landlord

- 2.1. A landlord is a registered user
- 2.2. A landlord shall have many listings
- 2.3. A landlord shall be included in many landlord reviews
- 2.4. A landlord shall write many comments

#### 3. Moderator

- 3.1. A moderator is a registered user
- 3.2. A moderator shall settle many reports
- 3.3. A moderator shall have an alias

#### 4. Listing

- 4.1. A listing shall have one address
- 4.2. A listing shall be posted by one landlord
- 4.3. A listing shall have many images
- 4.4. A listing shall have one description
- 4.5. A listing shall have one price
- 4.6. A listing shall have a number of bedrooms

- 4.7. A listing shall have a number of bathrooms
- 4.8. A listing shall have a size
- 5. **Review**
  - 5.1. A review shall be posted by one registered user
  - 5.2. A review shall have many reports
  - 5.3. A review shall have one rating
  - 5.4. A review shall have one description
  - 5.5. A review shall have many comments
  - 5.6. A review shall have many pictures
- 6. **Landlord Review**
  - 6.1. A landlord review is a review
  - 6.2. A landlord review shall include one landlord
  - 6.3. A landlord review shall include at most one listings
- 7. **Listing Review**
  - 7.1. A listing review is a review
  - 7.2. A listing review shall include one listing
- 8. **Conversation**
  - 8.1. A conversation shall have two registered users
  - 8.2. A conversation shall have many messages
- 9. **Message**
  - 9.1. A message shall be sent by one registered user
  - 9.2. A message shall have a text message
  - 9.3. A message shall belong to one conversation
- 10. **Picture**
  - 10.1. A picture shall be posted by one registered user
  - 10.2. A picture shall have a name
- 11. **Comment**
  - 11.1. A comment shall be posted by one registered user
  - 11.2. A comment shall reply to zero or one comments
  - 11.3. A comment shall have a number of likes
  - 11.4. A comment shall have a number of dislikes
- 12. **Review Comment**
  - 12.1. A review comment is a comment
  - 12.2. A review comment shall be written under one review

**13. Listing Comment**

- 13.1. A listing comment is a comment
- 13.2. A listing comment shall be written under one listing

**14. Saved Listing List**

- 14.1. A saved listing list shall have many listings
- 14.2. A saved listing list shall belong to one registered user
- 14.3. A saved listing list shall have a name

**15. Report**

- 15.1. A report shall be sent by one registered user
- 15.2. A report shall be settled by one moderator
- 15.3. A report shall refer to one review
- 15.4. A report shall have one reason
- 15.5. A report shall have one verdict

**Entities and Attributes****RegisteredUser**

- reg\_user\_id: int, primary key
- time\_created: datetime
- name: varchar(100)
- email: varchar(100)
- password: varchar(100)
- picture\_id: int, references Picture, foreign key
- bio: text
- renter\_rating: decimal
- role: int

**Landlord**

- reg\_user\_id: int, primary key, references RegisteredUser
- landlord\_rating: decimal

**Moderator**

- reg\_user\_id: int, primary key, references RegisteredUser
- username: varchar(100)

**Listing**

- listing\_id: int, primary key
- landlord\_fk: int, references Landlord

- listing\_price: decimal
- listing\_description: text
- listing\_street\_number: int
- listing\_street: varchar(100)
- listing\_city: varchar(100)
- listing\_state: varchar(2)
- listing\_zip\_code: int
- num\_rooms: int
- num\_baths: int
- size: int
- listing\_time\_created: datetime
- review\_fk: int, references reviews

#### Review

- review\_id: int, primary key
- reg\_user\_fk: int, references RegisteredUser
- rating: decimal
- description: text
- listing\_time\_created: datetime

#### LandlordReview

- landlord\_review\_id: int, primary key
- landlord\_fk: int, references Landlord
- listing\_fk: int, references listing

#### ListingReview

- listing\_review\_id: int, primary key
- listing\_fk: int, references listing

#### Comment

- comment\_id: int, primary key
- reg\_user\_fk: int, references RegisteredUser
- comment\_fk: int, references Comment, null
- message: text
- thumbs\_up: int
- thumbs\_down: int
- time\_created: datetime

#### ReviewComment

- review\_comment\_id: int, primary key

- review\_fk: int, references Review

#### ListingComment

- listing\_comment\_id: int, primary key
- listing\_fk: int, references listing

#### SavedListingList

- saved\_id: int, primary key
- reg\_user\_fk: int, references RegisteredUser
- listing\_fk: int, references listing
- time\_saved: datetime

#### Blocked

- block\_id: int, primary key
- reg\_user\_fk: int, references RegisteredUser
- blocked\_user\_fk: int, references RegisteredUser

#### Banned

- ban\_id: int, primary key
- mod\_fk: int, references Moderator
- reg\_user\_fk: int, references RegisteredUser
- reason: text

#### Report

- report\_id: int, primary key
- reg\_user\_fk: int, references RegisteredUser
- review\_fk: int references Review
- description: text
- time\_created: datetime
- verdict: enum:(warning, ban, okay)
- moderator\_fk: int, references RegisteredUser
- time\_settled: datetime

#### Picture

- picture\_id: int, primary key
- file\_name: varchar(100)
- poster\_fk: int, references RegisteredUser

#### Profile Picture

- picture\_id: int, primary key, references Picture

- reg\_user\_fk: int, references RegisteredUser

#### Listing Picture

- picture\_id: int, primary key, references Picture
- listing\_fk: int, references Listing
- order: int

#### Review Picture

- picture\_id: int, primary key, references Picture
- review\_fk: int, references Review
- order: int

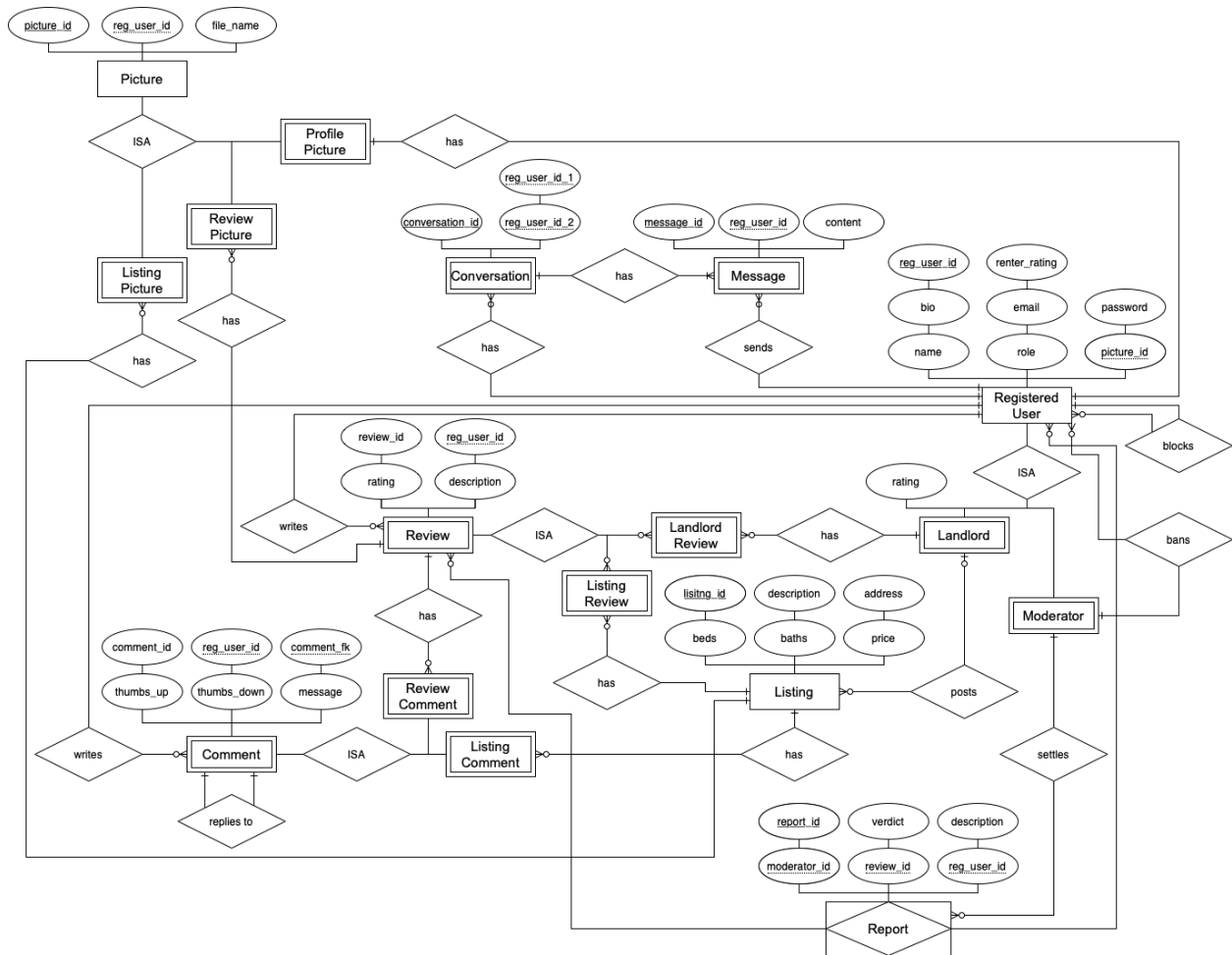
#### Conversation

- conversation\_id: int, primary key
- reg\_user\_1\_fk: int, references RegisteredUser
- reg\_user\_2\_fk: int, references RegisteredUser

#### Message

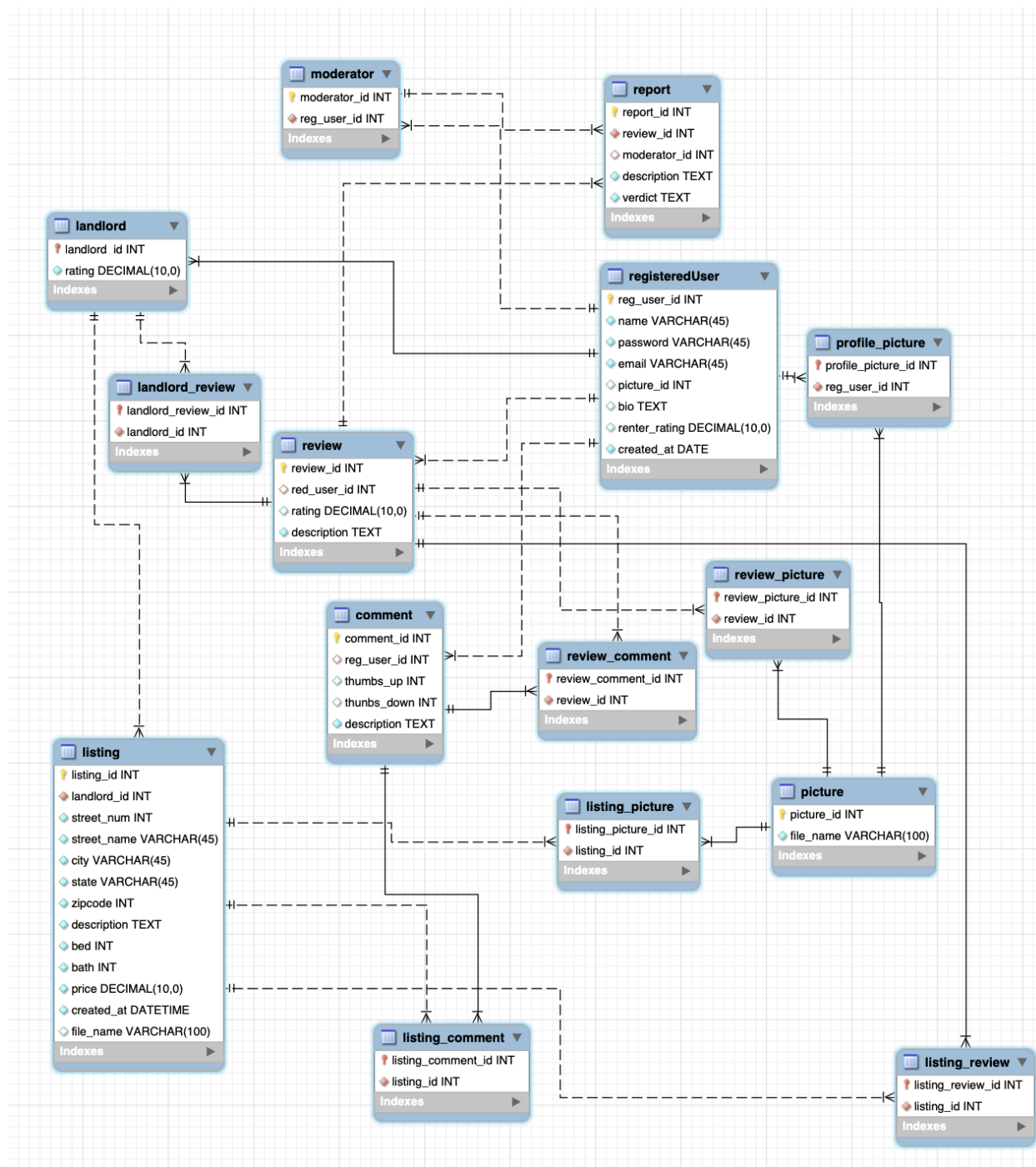
- message\_id: int, primary key
- conversation\_fk: int, references Conversation
- reg\_user\_fk: int, references RegisteredUser
- content: text
- time\_sent: datetime

## Entity Relationship Diagram



## DBMS

MySQL is a type of structured database which stores only structured data. We chose MySQL for our project because of Node.js performs well with relational databases like MySQL. Because we work on relation data and MySQL is very flexible, so MySQL will be the best for learning.





## Media Storage

Images will be kept in our file structure. And then the file names and locations of those images will be stored in the database. We will use the node.js module Multer to store these files.

## Search/Filter Architecture and Implementation

### Listings

Users will search listings by address, by zip code, by location, or by city. The default search results will be sorted by rating. If multiple ratings have the same rating, they will be sorted by the newest listings. If the listings were posted at the exact same time, they will be sorted by address. If nothing shows up, the site will offer other recommended listings.

Users will then be able to apply multiple filters to their search:

Minimum Price	Users will be able to set a minimum price, which will exclude any listings below said filter
Maximum Price	Users will be able to set a maximum price, which will exclude any listings that exceed said filter
Listing Rating	Users will be able to apply a rating filter which will portray listings of desired rating and above.
Landlord Rating	Users will be able to apply a rating filter which will display landlords of specific ratings and above. Listings shown will exclude ratings below the applied filter.
Beds	Users will be able to filter out bedrooms based on desired amount. Listings shown will exclude any amount of bedrooms below desired quantity.
Baths	Users will be able to filter out bathrooms based on desired amount. Listings shown will exclude any amount of bathrooms below the desired quantity.

Users can also be able to order their search results one attribute at a time:

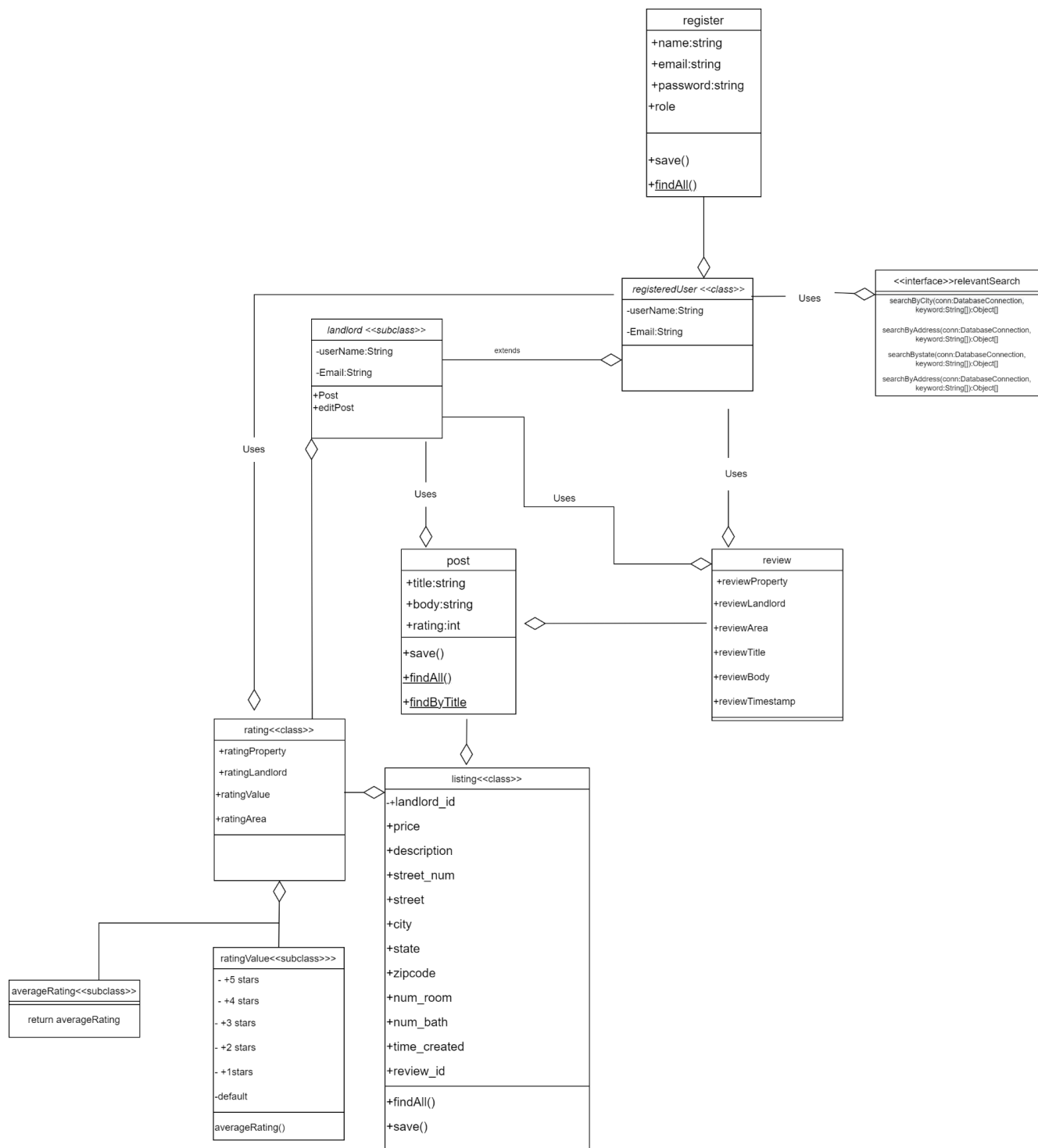
Price	Users can order the results by most expensive or by least expensive.
Listing Rating (default)	Users can order the results by highest rated listing.
Landlord Rating	Users can order the results by the highest rated landlords.
Time Posted	Users can order the results by the most recent listings or by the oldest listings.
Number of Reviews	Users can order the results by the most number of reviews.

**Landlords**

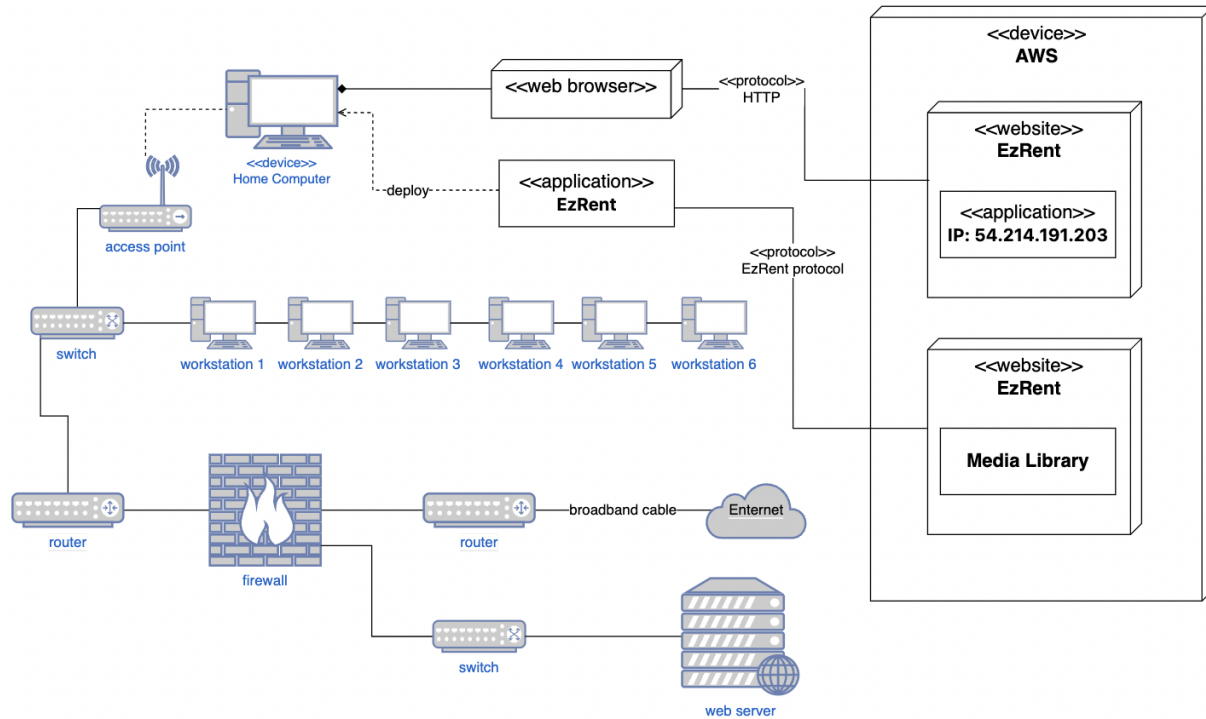
Users will search Landlords by location including address, city, zip code or by name. The top rated Landlords will be the first results the user will see; this will be our default to make sure the user has the most optimal experience.

Users won't be able to apply filters to this search.

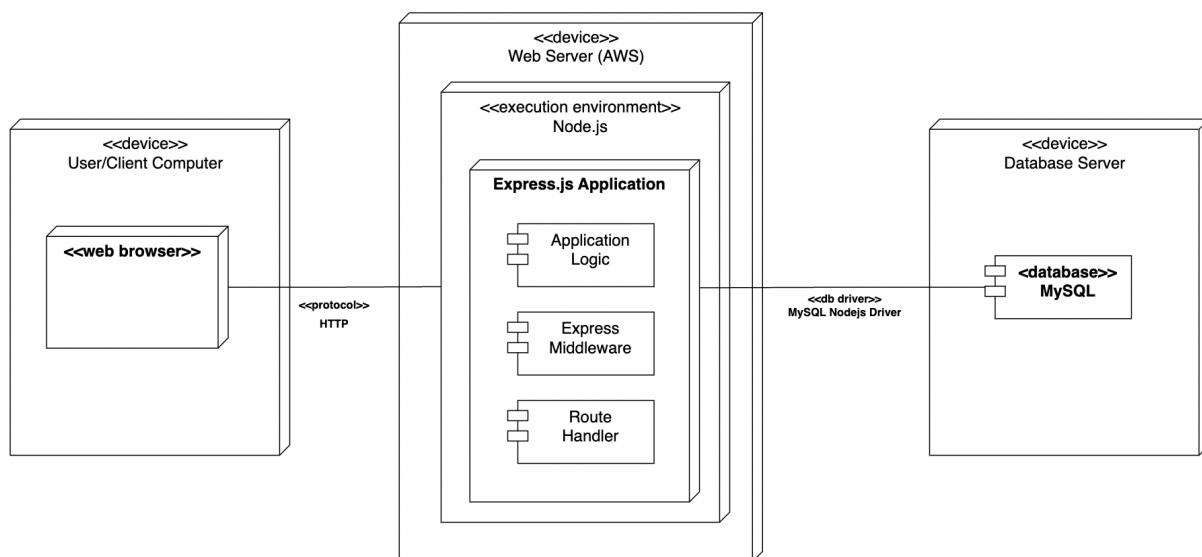
## 5. High level Diagrams



Network Diagram:



Deployment Diagram:



## 6. List of Team Contributions

Devon Dy-Liacco	Documentation: <ul style="list-style-type: none"> <li>Delegated tasks and set deadlines</li> <li>Home page wireframe</li> <li>Listing page wireframe</li> </ul>
Score: 8/10	Horizontal Prototype: <ul style="list-style-type: none"> <li>Delegated tasks and set deadlines</li> <li>Routing</li> <li>Home page</li> <li>Listing page</li> <li>Refactoring/restructuring code</li> <li>Proofreading</li> </ul>
Praise O Eubany	Documentation: <ul style="list-style-type: none"> <li>Headers</li> <li>Registration page wireframe</li> <li>Login wireframe</li> </ul>
Score: 7/10	Horizontal Prototype: <ul style="list-style-type: none"> <li>Registration page</li> <li>Login page</li> <li>Github management</li> <li>Routing</li> </ul>
Youssef Hammoud	Documentation: <ul style="list-style-type: none"> <li>Renter profile page wireframe</li> <li>Landlord profile page wireframe</li> </ul>
Score: 8/10	Horizontal Prototype: <ul style="list-style-type: none"> <li>Renter profile page</li> <li>Landlord profile page</li> <li>Reviews popup</li> <li>Styling</li> <li>Routing</li> <li>Proofreading</li> </ul>
Issa Shihadeh	Documentation: <ul style="list-style-type: none"> <li>Revise M2 documentation</li> <li>Proofreading</li> </ul>
Score: 6/10	Horizontal Prototype: <ul style="list-style-type: none"> <li>Started sessions</li> <li>Created server-side validation functions</li> </ul>

	<ul style="list-style-type: none"> <li>Helped package data in backend</li> </ul>
Tung Nguyen	Documentation: <ul style="list-style-type: none"> <li>Wrote DBMS</li> </ul>
Score: 7/10	Horizontal Prototype: <ul style="list-style-type: none"> <li>Styling assistance</li> <li>Database management</li> <li>Models and controllers</li> <li>Proofreading</li> </ul>
Ricardo Lopez	Documentation: <ul style="list-style-type: none"> <li>Wireframes Storyboards</li> <li>Help page wireframe</li> <li>Search results wireframe</li> <li>Post listing page wireframe</li> </ul>
Score: 7/10	Horizontal Prototype: <ul style="list-style-type: none"> <li>Help Page</li> <li>Post listing page wireframe</li> <li>Styling</li> <li>Proofreading</li> </ul>