



SW Engineering CSC648/848

Spring 2019

GatorRooms.com

Team 9 Milestone 2

Product Requirements Document

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Versions

History Table

Version	Date	Notes
1.0	3/22	First version for submittal.

1. Data Definitions and Entities

Listing -	<p>The advertisement post of the apartment by the landlord. It includes the date it was posted, images, number of rooms, address, distance, and price of the apartments.</p> <p>This 'Listing' class will include the 'description' method.</p>
- Image -	<p>An image of the apartment within acceptable size and resolution.</p> <p>Image formats supported:- jpeg, png, bmp. gif, tiff. dicom.</p> <p>A maximum image size of 7 MB per picture.</p> <p>No video.</p> <p>The listing will include 'image' field if provided.</p>
- Address -	<p>A valid residential address that follows a defined format.</p> <p>A valid address contains the following:</p> <p>All capital letters, No commas or periods</p> <p>A valid and deliverable address</p> <p>Included company name, apartment number, or suite number if applicable</p> <p>Valid acronyms and abbreviations</p> <p>A valid ZIP CODE</p> <p>The example below shows a valid address:</p> <p>JACK SMITH</p> <p>COMPANY LTD</p> <p>123 N MAIN ST STE 45</p> <p>SF CA 94132</p> <p>This 'Listing' class will include the 'address' method.</p> <p>The 'Address' class will include street address, city, state, zipcode.</p>
- Price -	<p>This 'Listing' class will include:</p> <p>A price (amount method) of the listing per month in <u>US dollars</u>. Filters will be available.</p> <p>Amount type (amountType method) is also available for listings showing per month, per semester, per year.</p>

- Distance -	A distance in <u>miles</u> to SF State campuses. Filters will be available.
- Type -	A category of listings available, for example a room for rent in a house, in an apartment, the whole house/apartment.
User-	
-Guest User -	A user that can browse website and see the listings and contact Landlords. Their information will not be stored.
-Registered User-	The same abilities as a guest user, but their information will be stored. Information will be stored are, at a minimum : email address, password, first and last name. 'Roles' will capture the user as registered user.
-Admin User -	A user who will be able to approve listing before they are published and reject the posting without editing it. Data will be flagged "is_admin".
-Landlord User-	A user will have an ability to create the listings and send them for review.
-User Email -	Email address of the user that will needed to be verified to validate this is a legitimate address. Validation will include that the address was entered, then an "@" symbol, and then something else followed @.
User Phone Number-	Phone numbers to connect to the user for admin purposes. These are the valid formats. (123) 456-7890 (123)456-7890 123-456-7890 123.456.7890 1234567890
Message -	A communication unit that will be used by Users. Includes content(text), date, sender's and recipient's name. Text field will have ability to include one standard text version only. Message class will include fields from, to, message, date, and status "is_read".
Favorite -	A rental listing can be added to the set of saved info of user's database. A

	“heart” heart-shaped icon can be clicked to indicate to the user that the listing will be saved.
Registration record -	A set of information obtained during registration such as first name, last name, email address

2. Functional Requirements

User - Guest User

First Priority

- User shall be able to browse the list
- User shall be able to sign up and register

Second Priority

- User shall be able to sort the list ascending, descending date of posting, monthly rent price.
- User shall be able to review the listings quickly whether they are on mobile or desktop.
- User shall be able to review the About page and read team’s profile on mobile and desktop easily.

Last Priority

- User shall be able to sort based on distance to the campus, distance to popular study spots, and filter amenities (i.e., garage, community amenities, heating/cooling and more types of filters).
- User shall be able to review a listing and find commuting directions and time estimate.
- User shall be able to click a different way of viewing the listing and display the property’s larger version of the image.
- User shall be able to print their listings in a printer-friendly format from the site.
- User shall be able to view the Frequently Asked Questions(FAQ) page.
- User shall be able to have access to a built-in rental calculator to help students avoid committing to a property they cannot afford and keep rental expectation in check.
- User shall be able to access the forum page where they can contact other students or landlords for assistance.
- User shall be able to fill out a “Refer a friend” form for their friends, families and relatives.
- User shall be able to view GatorRooms.com’s social media platforms.

User - Registered User

First Priority

- Users shall be able to login to their accounts.
- Users shall be able to post after the post have been approved by admin.

Second Priority

- Users / Landlords shall be able to publish multimedia like images so that students can view it.
- Users shall be able to send message from their dashboard to the landlord/listing owner.
- Users / Landlord shall have a dashboard allowing them to review messages from user and contact the student.

Last Priority

- Users shall have a dashboard viewing status of their postings, i.e. under review, approved.
- Users/Landlords shall be able to publish videos (virtual tour) of their properties so that students can view it.
- Users shall be able to bookmark or save their favorite listings.
- Users shall be able to create alerts and be emailed when the listing fitting their criteria is posted.

User - Admin

First Priority

- Admins shall be able to login as admin.
- Admins shall be able to review and approve listings before they go live.

Second Priority

- Admins shall be able to have a dashboard allowing them to review and reject posting in bulk.
- Admins shall be able to reject but not modify the listings from customers.

Third Priority

- Admins shall be able to help users troubleshoot issues with registration such as logging in,

form issues, resetting password, reconciling old/new accounts, etc.

3. UI Mockups and Storyboards

Admin Dashboard - Reviewing, Approving (Jia Nan)

Registered User/Landlord Dashboard - Write Posting, Submitting for admin review (Ish)

Guest User Dashboard - Reviewing communication from landlord (Inez)

Guest User - Browsing, Sorting (Hang)

3.1. Use Case: Guest User Mary


Mary, an SFSU student, needs a rental apartment. She finds GatorRooms.com and enjoys the simplicity of the site since she can use the site **without registering**. She **logs in** and **reads** messages from the landlord, or she can **post a reply** message. She can easily, and securely find a rental apartment without taking too much time out of her studies.

Mary sees website page with listings

The mockup shows a search bar with 'Daly city, Ca' and a magnifying glass icon. Below the search bar are navigation links: Home, Post, About, Message, and Login/Reg. A sidebar on the left contains filters for 'Rooms for rent' (Description only, Near SFSU, Posted this week), 'Date Posted' (Newest first), 'Price' (Low to High, High to Low), and 'Type' (Apartment, House). The main content area is titled 'Listings, Daly City House for rent' and includes a 'Sort by' dropdown menu with options: Distance, Price, and sqft. Below the menu is a table of listings.

address	Price \$	sqft	Distance to SFSU mi	
555, palisades blvd, Daly City, CA 94*** 1bds/1ba	\$1500/mo	800 sq ft	2.1	Save
333, 2nd blvd, Daly City, CA 94*** 2bds/2ba	\$2000/mo	1000 sq ft	3.1	Save
272, alameda blvd, Daly City, CA 94*** 3bds/2ba	\$3000/mo	1200 sq ft	1.9	Save
556, kent blvd, Daly City, CA 94*** 3bds/3ba	\$3600/mo	1500 sq ft	0.9	Save

Mary clicks on one of the listings and visits the listing page



1461 Duck Creek Road, Daly City, CA 94015
1 bed 1 bath 800 sqft \$1500/mo

- Great for city commuters.
- Close to all amenities and SFSU.
- Designated parking spot. Lots of street Parkings.
- Very open deck to enjoy Sunset daily.

Request a tour

Name:


phone:

Email:

Message:

Send request

Guest User Mary's Storyboard



Listings, Daly City
 House for rent

address	Price \$	sqft	Distance to SFSU mi.	Size
505, parkside blvd, Daly City, CA 94015 1bed1bath	\$1500/mo	800 sq ft	2.1	Size
333, 2nd blvd, Daly City, CA 94015 2bed2bath	\$2000/mo	1000 sq ft	3.1	Size
272, siamade blvd, Daly City, CA 94015 3bed2bath	\$3000/mo	1200 sq ft	1.5	Size
506, kent blvd, Daly City, CA 94015 3bed3bath	\$3600/mo	1500 sq ft	0.9	Size

1461 Duck Creek Road, Daly City, CA 94015
1 bed 1 bath 800 sqft \$1500/mo

- Great for city commuters.
- Close to all amenities and SFSU.
- Designated parking spot. Lots of street Parkings.
- Very open deck to enjoy Sunset daily.

Request a tour

Name:

phone:

Email:

Message:

Send request

Search description or zip code

Home Post About Message Login/Reg

Email Login

Password Forgot password? Log In

Email Register

Register

Mary sees website page with listings, and selects one of the listings.

Mary clicks on one of the listings and visits the listing page. Sends 'Request a tour' message to landlord and clicks "Send request".

Mary is asked to Login/Register Page before submitting her message to the landlord/poster.

3.2. Use Case: Registered User/Landlord Jill

Jill is a busy realtor and she is always in her car, ...finds GatorRooms.com and finds the website **easy to access on her laptop** and **can create a post between meetings**. She is a realtor so she likes that she **can use her business email address as a contact** and does not need a masked email address.

Jill creates her posting on New Listing page

Daly city, Ca

HomePostAboutMessageLogin/Reg

Rooms for rent

☐ Description only

☐ Near SF/SU

☐ Posted this week

☐ Date Posted

☐ Newest first

☐ Price

☐ Low to High

☐ High to Low

Type

☐ Apartment

☐ House

New Listing

Add Image

At least one is required

Description

Save

Save & Submit

Price : \$1,500/mth

Beds : 1 room

Baths: 1 shared bath

After logging in, Jill can view her list of postings and its status

Page 1

https://www.gatorrooms.com

Search

Home
New Listing

Welcome to Your Hub

Your Properties

- 22 Arballo Drive
- 600 Stockton

Messages

2 Unread Messages

About

Cool lenient, renter friendly landlord that is looking for a great group of individuals to take care of my properties.

22 Arballo Drive

Active
Edit
Remove

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo. Nemo enim ipsam voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, quis nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur? Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?

600 Stockton

Request to Make Active
Edit
Remove

Lorem ipsum dolor sit amet, consectetur adipisicing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

Sed ut perspiciatis unde omnis iste natus error sit voluptatem accusantium doloremque laudantium, totam rem aperiam, eaque ipsa quae ab illo inventore veritatis et quasi architecto beatae vitae dicta sunt explicabo.

Registered User/Landlord Jill's Storyboard

Daily city, Ca

Home Post About Message Login/Reg

Rooms for rent

- Description only
- Near SFU
- Postcard this week
- Date Posted
- Newest first

Listings, Daily City House for rent

address	Price \$	sq ft	Distance to SFU mi	See
555, palladiano blvd, Daily City, CA 94111 10th/10th	\$1500/mo	800 sq ft	2.1	See
333, 2nd blvd, Daily City, CA 94111 2nd/2nd	\$2000/mo	1200 sq ft	3.1	See
777, alameda blvd, Daily City, CA 94111 3rd/3rd	\$3000/mo	1200 sq ft	1.9	See
999, kent blvd, Daily City, CA 94111 3rd/3rd	\$3000/mo	1500 sq ft	0.9	See

Daily city, Ca

Home Post About Message Login/Reg

New Listing

Add Image

Price : \$1,500/mth
Beds : 1 room
Baths : 1 shared bath

Description

Save Save & Submit

Search description or zip code

Home Post About Message Login/Reg

Rooms for rent

- Description only
- Near SFU
- Postcard this week
- Date Posted
- Newest first

Login

Email

Password

Forgot password?

Log In

Register

Email

Type

Apartment

House

Jill sees website page with listings and clicks on “Post”.	Jill fills out her listing details and clicks “Save” or “Save & Submit”.	Jill is asked to Login/Register Page before submitting her listing to the admin for review.
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3.3. Use Case: Registered User/Landlord Jon’s Login Experience

Jon represents all users who want to login/register. They are looking to complete the login/registration process painlessly with minimum clicks and forms to fill out.

Jon wants to register. GatorRooms.com informs him that a unique link has been sent to his email.

<div> <input type="text"/> Search description or zip code </div> <div> Home Post About Message Login/Reg </div> <div> <div>Rooms for rent</div> <div> <input type="checkbox"/> Description only <input type="checkbox"/> Near SFSU <input type="checkbox"/> Posted this week </div> <div> <input type="checkbox"/> Date Posted Newest first </div> <div> <input type="checkbox"/> Price Low to High <input type="checkbox"/> High to Low </div> <div> <input type="checkbox"/> Type Apartment <input type="checkbox"/> House </div> </div> <div> <div>Email</div> <div>Login</div> <div> <input type="text"/> <input type="password"/> </div> <div> Forgot password? </div> <div> <input type="button" value="Log In"/> </div> </div> <div> <div>Email</div> <div>Register</div> <div> <input type="text"/> </div> <div> <input type="button" value="Register"/> </div> </div>	<div> <input type="text"/> Search description or zip code </div> <div> Home Post About Message Login/Reg </div> <div> <div>Rooms for rent</div> <div> <input type="checkbox"/> Description only <input type="checkbox"/> Near SFSU <input type="checkbox"/> Posted this week </div> <div> <input type="checkbox"/> Date Posted Newest first </div> <div> <input type="checkbox"/> Price Low to High <input type="checkbox"/> High to Low </div> <div> <input type="checkbox"/> Type Apartment <input type="checkbox"/> House </div> </div> <div> <p>Thank you for registering on GatorRooms!</p> <p>To log in to your account, please go to:</p> <p>https://accounts.gatorrooms.org/pass?userid12345&key=1235567</p> <p>You will be prompted to choose a password as soon as you log in.</p> <p>If you experience any problems or have any questions, please reply to this message or email help@gatorrooms.net.</p> <p>Thank you!</p> </div>
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Following login, he lands on GatorRooms.com homepage with his email address displayed at top-right corner.

Search:

Home Post About Message reguser@gatorrooms.com

Rooms for rent

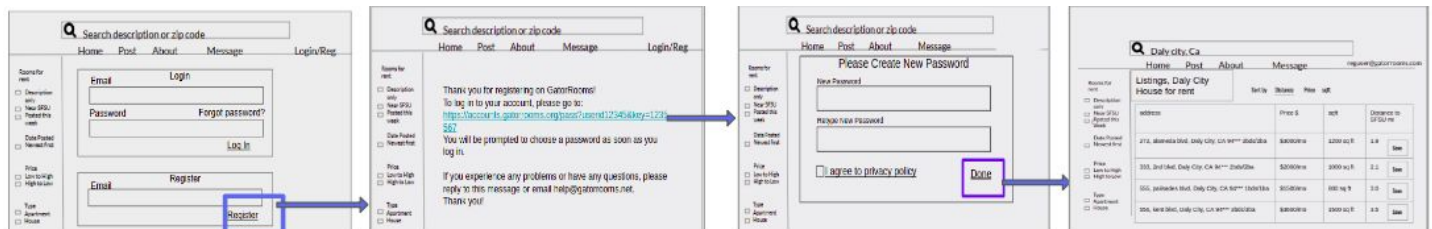
- ☐ Description only
- ☐ Near SFSU
- ☐ Posted this week
- ☐ Date Posted
- ☐ Newest first
- ☐ Price Low to High
- ☐ Price High to Low
- ☐ Type Apartment
- ☐ Type House

Listings, Daly City House for rent

Sort by Distance Price sqft

address	Price \$	sqft	Distance to SFSU mi	
272, alameda blvd, Daly City, CA 94*** 3bds/2ba	\$3000/mo	1200 sq ft	1.9	<input type="button" value="Save"/>
333, 2nd blvd, Daly City, CA 94*** 2bds/2ba	\$2000/mo	1000 sq ft	2.1	<input type="button" value="Save"/>
555, palisades blvd, Daly City, CA 94*** 1bds/1ba	\$1500/mo	800 sq ft	3.0	<input type="button" value="Save"/>
556, kent blvd, Daly City, CA 94*** 3bds/3ba	\$3600/mo	1500 sq ft	3.5	<input type="button" value="Save"/>

Storyboard - Jon's registration flow



Jon is presented an option to login or register. He enters his personal email to register.

Jon sees a message that he is sent a unique link to his email address to validate that his email address is his.

He clicks on the link and is asked to create a password.

Once complete, he lands on GatorRooms.com homepage and his email is displayed on top right.

Storyboard - Jon's login flow

The storyboard consists of two panels. The left panel shows a 'Login/Reg' page with a search bar at the top. Below it are navigation links: Home, Post, About, Message, and Login/Reg. The main content area has two sections: 'Login' and 'Register'. The 'Login' section contains fields for 'Email' and 'Password', a 'Forgot password?' link, and a 'Log In' button. The 'Register' section contains an 'Email' field and a 'Register' button. The right panel shows the homepage after a successful login. The search bar now contains 'Daly city, Ca'. The navigation links are the same, but the 'Login/Reg' link is now 'rguaser@gatorrooms.com'. The main content area has a 'Listings, Daly City House for rent' section with a table of listings. A blue arrow points from the 'Log In' button in the left panel to the 'rguaser@gatorrooms.com' link in the right panel.

Search description or zip code

Home Post About Message Login/Reg

Rooms for rent

☐ Description only
☐ Near SFSU
☐ Newest this week

Date Posted
☐ Newest first

Price
☐ Low to High
☐ High to Low

Type
☐ Apartment
☐ House

Email Login

Password Forgot password?

Log In

Email Register

Register

Search description or zip code

Home Post About Message rguaser@gatorrooms.com

Listings, Daly City House for rent

address	Price \$	sqft	Distance to SFSU mi
272, Alameda Blvd, Daly City, CA 94015 3bed/2ba	\$3000mo	1200 sq ft	1.9
285, 2nd Blvd, Daly City, CA 94015 2bed/2ba	\$2000mo	1000 sq ft	2.1
555, palmdale Blvd, Daly City, CA 94015 1bed/1ba	\$1500mo	800 sq ft	3.0
555, Kent Blvd, Daly City, CA 94015 3bed/3ba	\$3000mo	1200 sq ft	3.5

Jon is presented an option to login or register. He chooses to login.

Once email address and password is entered, he lands on GatorRooms.com homepage and his email is displayed on top right.

3.4. Use Case: Admin Dashboard David

David is a new website administrator... using the **Admin dashboard** on GatorRooms, he can review, approve, and reject, several listings **all on one page, in bulk**. He can also **review and approve all postings** on the website **before they go live, on the same dashboard page**.

David's dashboard where he can see the status of listings he has reviewed: "x" for Reject, "✓" for Approved.

Search description or zip code

[Home](#)
[Post](#)
[About](#)
[Message](#)
[Login/Reg](#)

Rooms for rent

☐ description only
 ☐ Near SFSU
 ☐ Posted this week

Price

☐ Low to High
 ☐ High to Low

Type

☐ Apartment
 ☐ House

Listings, Daly City

House for rent

sort by

Distance

Price

Sqft

address	Price \$	Sqft	Distance to SFSU mi	
272, Alameda Daly City, CA 94*** 3bds/2ba	\$3000/mo	1200 Sq ft	1.9 <input type="button" value="save"/>	<input checked="" type="checkbox"/>
333, 2nd blvd, Daly City, CA 94*** 2bds/2ba	\$2000/mo	1000 Sq ft	2.1 <input type="button" value="save"/>	<input checked="" type="checkbox"/>
555, palisades blvd, Daly City, CA 94*** 1bd/1ba	\$1500/mo	800 Sq ft	3.0 <input type="button" value="save"/>	<input checked="" type="checkbox"/>
556, Kent blvd, Daly City, CA 94*** 3bds/2ba	\$3000/mo	1500 Sq ft	3.5 <input type="button" value="save"/>	<input checked="" type="checkbox"/>

David's dashboard and the listings he can edit, to either approve or reject.

[Home](#)
[Post](#)
[About](#)
[Message](#)
reguser@gatorrooms.com

Rooms for rent

☐ Description only
☐ Near SFSU
☐ Posted this week

Date Posted
☐ Newest first

Price
☐ Low to High
☐ High to Low

Type
☐ Apartment
☐ House

Listings, Daly City
House for rent

Sort by
Distance
Price
sqft

address	Price \$	sqft	Distance to SFSU mi	Approve	Reject
272, alameda blvd, Daly City, CA 94*** 3bds/2ba	\$3000/mo	1200 sq ft	1.9	Save	<input checked="" type="checkbox"/>
333, 2nd blvd, Daly City, CA 94*** 2bds/2ba	\$2000/mo	1000 sq ft	2.1	Save	<input checked="" type="checkbox"/>
555, palisades blvd, Daly City, CA 94*** 1bds/1ba	\$1500/mo	800 sq ft	3.0	Save	<input checked="" type="checkbox"/>
556, kent blvd, Daly City, CA 94*** 3bds/3ba	\$3600/mo	1500 sq ft	3.5	Save	<input type="checkbox"/>

3.5. Use Case: Renter Nancy & Diana Landlord Messaging Dashboard

Nancy can use the same website without having to go to another mail app. She **logs in** and **reads** messages from the landlord, or she can **post a reply** message. She can easily, and securely find a rental apartment without taking too much time out of her studies.

Diana does not need a masked email address. She prefers to keep it all in her business email account because she highly monitors that one inbox but likes the **convenience of the dashboard** while she is checking in with **all of her listings/renters at once**.

After Nancy the renter logs in, she can view the messages from the landlords she contacted.

[Home](#)
[Post](#)
[About](#)
[Message](#)
reguser@gatorrooms.com

Rooms for rent

☐ Description only
☐ Near SFSU
☐ Posted this week

Date Posted
☐ Newest first

Price
☐ Low to High
☐ High to Low

Type
☐ Apartment
☐ House

Listings, Daly City
House for rent

Sort by
Distance
Price
sqft

address	Price \$	sqft	Distance to SFSU mi	Save
272, alameda blvd, Daly City, CA 94*** 3bds/2ba	\$3000/mo	1200 sq ft	1.9	Save
333, 2nd blvd, Daly City, CA 94*** 2bds/2ba	\$2000/mo	1000 sq ft	2.1	Save
555, palisades blvd, Daly City, CA 94*** 1bds/1ba	\$1500/mo	800 sq ft	3.0	Save
556, kent blvd, Daly City, CA 94*** 3bds/3ba	\$3600/mo	1500 sq ft	3.5	Save

[Home](#)
[Post](#)
[About](#)
[Message](#)
reguser@gatorrooms.com

Rooms for rent

☐ Description only
☐ Near SFSU
☐ Posted this week

Date Posted
☐ Newest first

Price
☐ Low to High
☐ High to Low

Type
☐ Apartment
☐ House

3 messages

From: Diana
07/01/18
Great to see...
Daly City

From: George
02/03/18
Thank you for...
San Francisco

From: James
03/05/18
Hello there, I...
San Jose

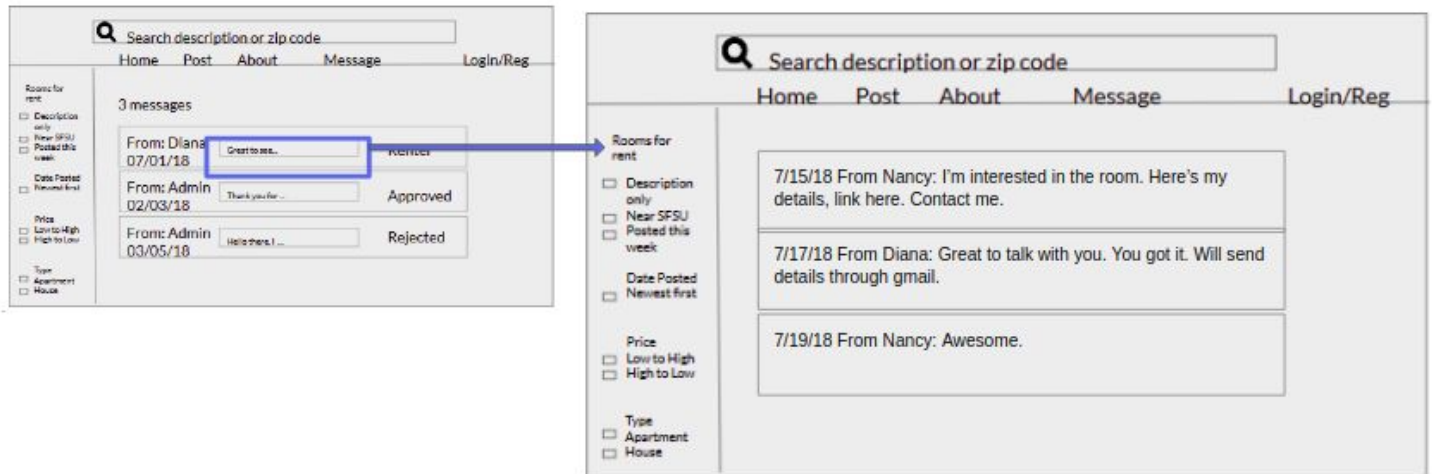
Nancy clicks on her email address at the top line to

She sees a list of messages dashboard between her

access her account.

and other landlords she has contacted.

After Diana the landlord logs in, she can view the messages from Renters or from Admin.

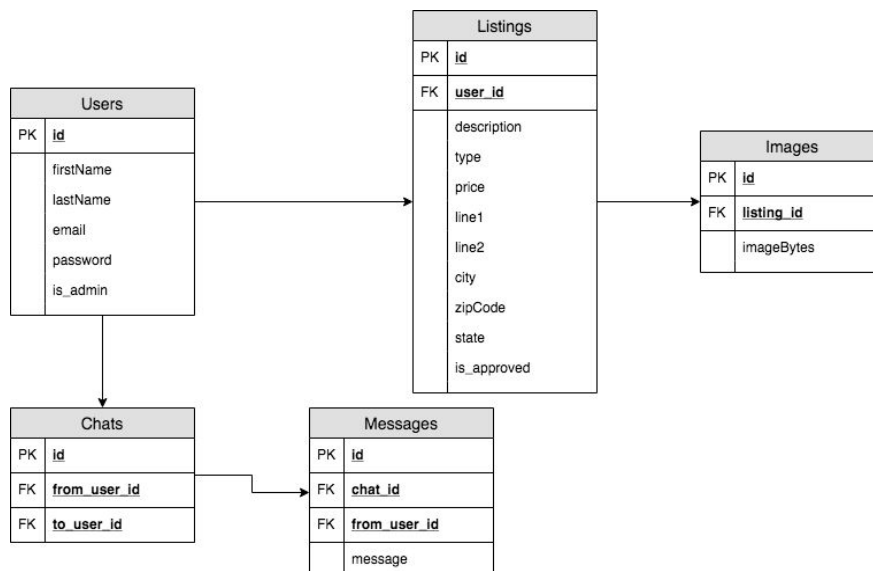


Diana clicks on the message from the Renter.

She sees a historical view of the messages between her and the renter, Nancy.

4. High Level Architecture, Database Organization

- Database Organization
 - There will be several tables that will store the users, chats, messages, and listing information.

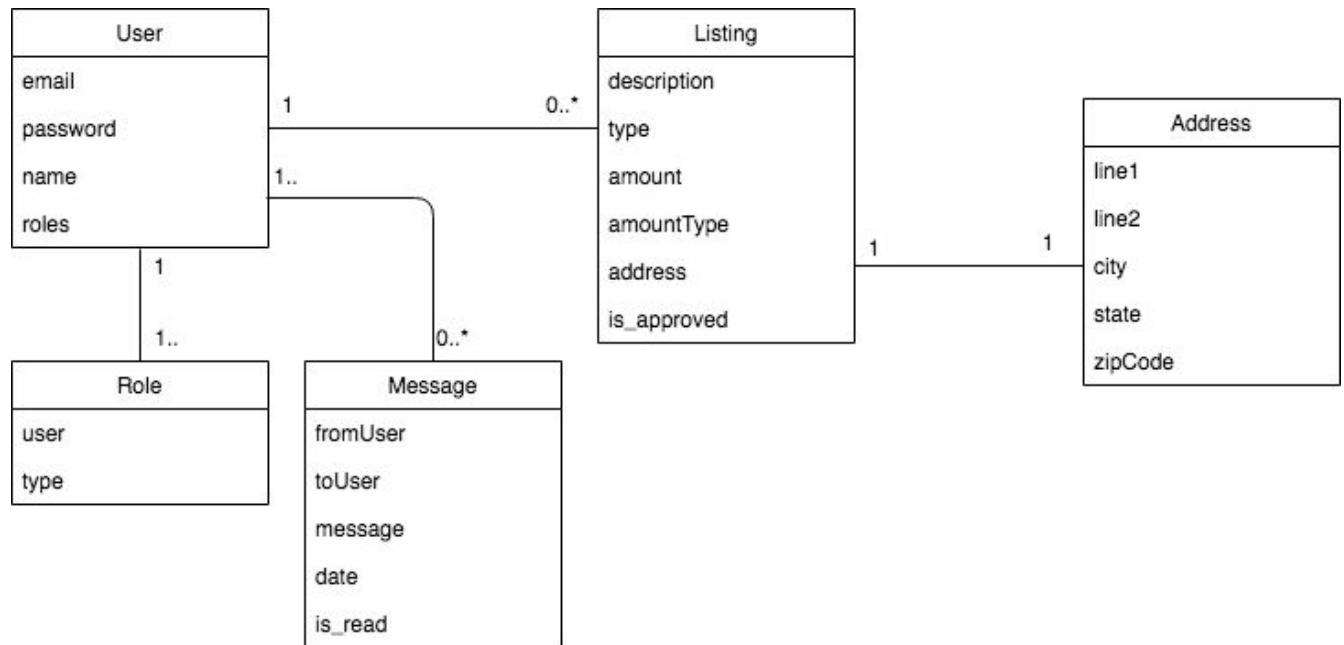


- Media Organization
 - The listing images will be stored in the database using BLOB (Binary Large Object) in the high resolution format, the client will resize the image based on its needs.
- Search / Filter architecture and implementation

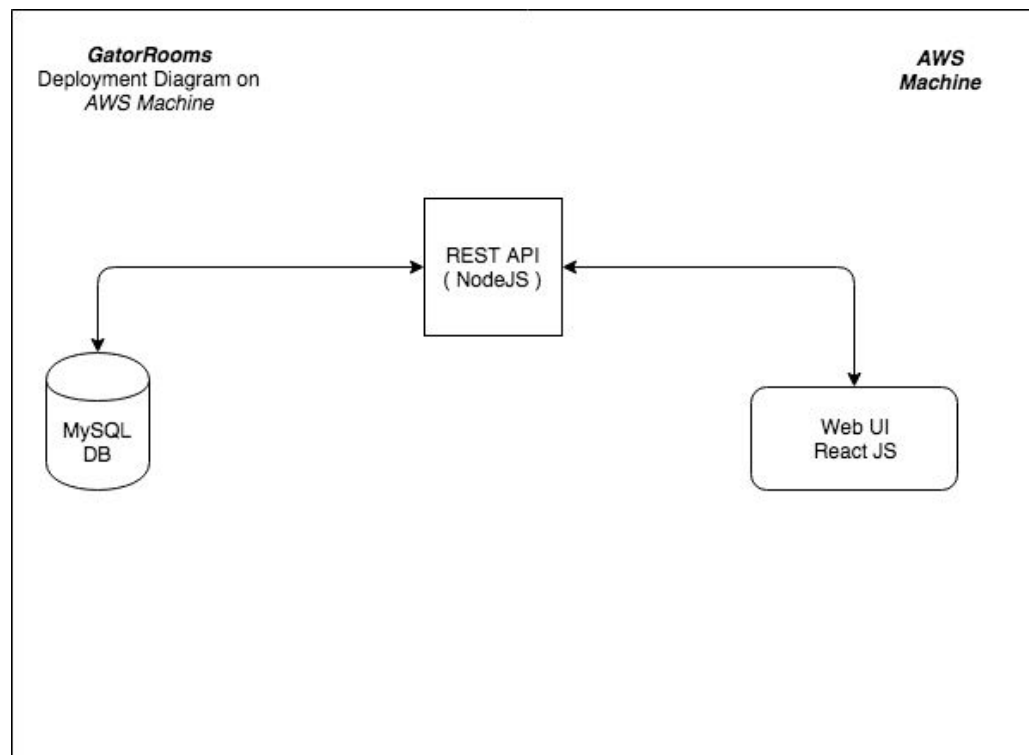
- A client will be sending the keywords entered by the user and their type (All, Zip code, Name Address, City, Name, and Description) based on the type a SQL query will be picked and the results will be returned if there is a match in the Database, “DB”.
 - For ‘All’ type, all the query will be executed. For name, city, description and address, SQL %like will be used.
- APIs
 - Application will be divided into two parts, front-end and back-end.
 - Back-End will expose REST-API that will be used for communication between client and back-end application
- Listing Sorting
 - DB will be used to sort the data and return it to the client.
 - Listing will default and sorted by date it was posted, following approval by admin.
- Tools/Frameworks
 - No Changes

5. High Level UML Diagrams (Alex)

Class Diagram



Deployment Diagram



6. Risks (Inez & Anyone else)

1. Skills risks
 - Team is ramping up on learning React. In order to efficiently work through the pages in the later milestones, the team will have to continue self-study every week, and follow along even though tasks of learning React, creating pages, are not officially assigned.
2. Schedule risks
 - Team has one 30-minute time slot and majority of time works remote. We have used Slack and Google Drive for M1. We are starting to use Trello heavily to assign tasks that lead up to bigger tasks/to-dos in Trello
3. Technical risks
 - We are starting to think about the pages for the prototype and how the data will be structured. Need to test and ensure the page displays the correct list of data, as organized the data tables.
4. Teamwork risks
 - Need to touch base with the team periodically to make sure the level of work is manageable and equally shared across individual team members.
5. Legal/Content risks
 - We are going to ensure we use royalty free images, and fictional listing, therefore we won't need to create legal/content risk.

7. Project Management

1. After class:
 - a. We discuss any changes since the last meeting/milestone.
 - b. We discuss dividing up tasks and later record them using a tool like Trello.
 - c. Answer any questions from the previous milestone.
2. Between class / team meetings:
 - a. We ask/answer questions on Slack, assign tasks on Trello, and set up Zoom meetings whenever necessary.
 - b. Team lead set up templates and docs on Google Docs & Google Slides so that everyone can collaborate on one tool.
 - c. We create tasks in Trello with our names as the Title, assign to ourselves or teammate, and provide due date when applicable
3. Before class:
 - a. We meet for 30 min to whiteboard, troubleshoot, answer questions
 - b. Walk through any questions that require more collaboration
 - c. Set up next steps/to-dos