

Final Project for SW Engineering

CSC648/848 Summer 2020

Team 6

Chillow

Team Members:

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Website URL:

<http://chillo-env.eba-btvmjin2.us-west-1.elasticbeanstalk.com/>

7 August 2020

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Product Summary

Chillow

Our mission at “Chillow” is to rethink the apartment hunting market for college students and staff. Chillow is a website poised to reach great heights by revolutionizing the apartment hunting market, specifically for students and staff at San Francisco State University. Our site helps to match students and SFSU staff with renters ready to lease and sell to students and SFSU staff, all at a convenient distance from campus.

This is all thanks to the features included in our site, which allow any user to browse our site and use our search bar to filter homes and apartments by address and zip code. But also by price, the number of bedrooms, the number of bathrooms. We also included more complex searches, such as searching for places that allow pets and how many they allow. We also allow anyone to see the distance that each listing is from campus. This decision can help drive how convenient it is to live there especially for first time goers to San Francisco State. Other features include available parking in the area. Are you allotted a parking spot, or must you rely on street parking?

But what is you are not here to rent or buy? We also allow you to post listings on our site as long as you are a registered user. Now we understand that your privacy is important and at Chillow we have systems in store to encrypt all your sensitive data. Now what about suspicious postings or users? Well our admin will handle the removal of such things so you can enjoy using our site and keep coming back. So we hope you will join our site.

Milestone Documents

Milestone 1

SW Engineering CSC648/848 Summer 2020 Chillow Team 6

Team Members:

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Milestone 1

25 June 2020

Revisions:
28 June 2020

Executive Summary

Our mission at “Chillow” is to rethink the apartment hunting market for college students and staff. Chillow is a website poised to reach great heights by revolutionizing the apartment hunting market, specifically for students and staff at San Francisco State University. Our site helps to match students and SFSU staff with renters ready to lease and sell to students and SFSU staff, all at a convenient distance from campus.

The problem being faced by students and staff at San Francisco State is that all housing and rental sites are too broad. There has not been any site created specifically with the goals and interests of college students and staff. The housing market is a fast paced ever changing market with places popping up and disappearing in an instance. By limiting our site to students and staff, we can bring forth a more tailored experience. Our specially tailored search engine helps students and staff find housing. This search engine will help the users to find a great community and really get to explore their neighborhood, from transportation, shops, and entertainment. We also added the feature to match international students or students who English is their second language together with sellers of their native language.

At Chillow we are a small team of diverse, highly motivated, and reliable students at San Francisco State University. Our goal is to create a safe housing network for students and staff at San Francisco State. School is already hard, allow our team to relieve the burden of apartment hunting and deliver to you the best experience.

List of Main Data Items and Entities

1. Registration record

- Permissions ID [1, 2, or 3] (permissions of registration classified as follows):

Administrator (1)

- Attributes: First Name, Last Name, Email, Password

SFSU User (2)

- Attributes: First Name, Last Name, Email (must contain '@sfsu.edu'), Password

Registered User (3)

- Attributes: First Name, Last Name, Email, Password

2. Rental listing

- Attributes: Address, Description, Pictures, Price, Unique ID of listing user, Approved by Admin (Y/N)

3. Messages

- User ID of sender (must be student), User ID of recipient (listing user), Message Content, Date/Time Stamp

4. Login Queue

- List of unique user IDs of users logged in (capped at 50)

Personae and Main Use Case

<p>1) <u>Student</u></p> <ul style="list-style-type: none">• goes to SFSU to achieve their desired goal• most come from other cities, states, or countries to obtain their degree• they come ready to face new challenges as independent adults <p><u>Goals and Needs</u></p> <ul style="list-style-type: none">• to graduate as soon as possible for a satisfying career• need a place to stay that is near campus• as little commute to school• safe neighborhood• is ok sharing a room with fellow students• homes near parks are preferred• well-furnished homes <p><u>Frustrations</u></p> <ul style="list-style-type: none">• long commute time that prevents students from getting to class on time• time management issues	 <p>A colorful cartoon illustration showing three students walking along a paved path towards a large, two-story brick school building. The building has a blue roof and several windows. The students are carrying backpacks; one girl has a purple backpack, another girl has a red one, and a boy has a blue one. The background features green hills, trees, and a small road with a car. The VectorStock logo is visible at the bottom of the image.</p>
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Use cases for Student

1. Looking to Rent

Anybody can browse the site and look for places to rent. Only when they are interested in renting a home or apartment, they will have to register to find more detailed information such as phone number and home features. Without registering on the site, the available places for rent will only display pictures posted by the landlord, the rental price, address, and general information. Students will need to register with their student

number and SFSU email. Anyone that tries to register with an invalid SFSU email and student ID will not be allowed to register as a student and instead shall be registered as a non-student user. Registered student users will be able to utilize all the features of the site that include but are not limited to sorting the listings of homes according to price, location, bedroom, bathroom, and size of the entire property. Other features for student users include estimated time to travel from that property to the school. Below the map will have an open house date if the student wishes to visit. Students can then contact the homeowner via email or text. They can also save listing for later review as well as being able to share the listing on social media.

2. Host Family

International student and regular student looking for a host family situation will be able to look for one after they input a host family in search bar. Student will be redirected to page showing multiple host family. When they click on one, it will take them to the page that displays the contact information about the family and pictures of their home.

<p>2) <u>Admin</u></p> <ul style="list-style-type: none">• A selected individual by app owner• Worked as admin in other apps or other pages <p><u>Goals and Needs</u></p> <ul style="list-style-type: none">• Smooth running apps to deliver the best customer and student experience <p><u>Frustrations</u></p> <ul style="list-style-type: none">• Rising security concerns	
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Use cases for Admin

Management Group:

Admins are selected by app owner. They have gone through all the detailed features of the app and its functionality. After they sign with their admin credentials, they will have access to all pending posts. They will be allowed to go through each post and approve or deny the post to be published on the site. Denied posts will be returned to the user with a description on why it was denied. The admin will also be notified if the users flag any posts as scams or discriminatory. They admin will verify the validity of any flagged entries. Any users found posting fraudulent or inappropriate listings, photos, and more to the site, will be permanently blocks from the site. Admins will be authorized to add or remove any posts on the site.

<p>3) <u>Landlord</u></p> <ul style="list-style-type: none"> • They have a multitude of real estate and are looking to rent or sell • Have dealt with multiple other renting sites • Professional and transparent regarding the price to sell or rent • Have a good reputation among other renters <p><u>Goals and Needs</u></p> <ul style="list-style-type: none"> • Tenant with reliable source of income and good credit score • No more than 2 pets are allowed in the apartment • Keeps the apartment and surrounding areas clean • Friendly family or individual is preferred <p><u>Frustrations</u></p> <ul style="list-style-type: none"> • Tired of scammers contacting them on a regular basis 	
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Use Case

A landlord can be anyone from SFSU or outside of SFSU. If somebody is looking to put an apartment or home for rent/sale on our site, they must be registered user. Admin will verify all information. After verification of the user's information is returned cleared. They can go on upload multiple pictures and write about the features of the rental unit. Once the apartment or house is taken off the market, it is the landlord's responsibility to notify our team, so the unit can be removed from available units.

<p>4) <u>SFSU Staff</u></p> <ul style="list-style-type: none"> • Part-time or full-time worker at SFSU • May be single or has a family <p><u>Goals and Needs</u></p> <ul style="list-style-type: none"> • Needs an affordable place nearby SFSU to commute faster to work • A safe neighborhood with included garage or available street parking • A unit that satisfies the needs of its renter in terms of square footage <p><u>Frustrations</u></p> <ul style="list-style-type: none"> • Non-availability of affordable housing 	
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Use Case

Anyone currently employed at SFSU with a valid sfsu.edu email shall be allowed to rent/buy apartments or homes from Chillow. Since they are not a student they will be registered as staff and fill all required forms. They shall be afforded all the amenities of a non-registered user on Chillow but to move forward with contacting the landlord about renting/buying a home/apartment they shall be required to register. Admin will verify all the credentials/information provided by the staff.

Initial List of Function Requirements

1. Unregistered Users

- 1.1 Users shall be able to browse homes on our marketplace
- 1.2 Users shall be able to search and browse by categories
- 1.3 Users shall be able filter by:
 - 1) Price
 - 2) Address
 - 3) Zip Code
 - 4) # of Bed/Bath
 - 5) Square footage
 - 6) Type of View
 - 7) Parking
- 1.4 Users shall be able to see rental listing information
- 1.5 Users shall be able to view reviews
- 1.6 Users shall be able to login and register to our site
- 1.7 Users shall be able to compare homes qualities
- 1.8 Users shall be able to determine local activities around property
- 1.9 Users shall be able to determine transportation availability
- 1.10 Users shall be able to see ratings
- 1.11 Users shall be able to utilize an in-home viewer
- 1.12 Users shall be able to share postings with friends

2. Registered Users

- 2.1 Registered Users have all functionality of a non-registered user
- 2.2 Users shall be able to sell, buy or rent property
- 2.3 Users shall have a transaction history on profile
- 2.4 Users shall be able to send messages to other users
- 2.5 Users shall be able to write reviews
- 2.6 Users shall be able to post listings
- 2.7 Users shall be able to reset their username or password
- 2.8 Users shall have a watchlist of favorite properties
- 2.9 Users shall have the ability to leave a rating after doing business
- 2.10 Users shall have all personal sensitive data saved on our servers encrypted

3. Admin

- 3.1 Admin Users shall have all functionality of a registered user
- 3.3 Admin shall be required to approve all posts
- 3.4 Admin shall ban suspicious users
- 3.5 Admin shall block suspicious posts

List of Non-Functional Requirements

1. Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agreed in M0 (some may be provided in the class, some may be chosen by the student team but all tools and servers have to be approved by class CTO).
2. Application shall be optimized for standard desktop/laptop browsers e.g. must render correctly on the two latest versions of two major browsers
3. Selected application functions must render well on mobile devices
4. Data shall be stored in the team's chosen database technology on the team's deployment server.
5. No more than 50 concurrent users shall be accessing the application at any time
6. Privacy of users shall be protected, and all privacy policies will be appropriately communicated to the users.
7. The language used shall be English (no localization needed)
8. Application shall be very easy to use and intuitive.
9. Google analytics shall be used
10. No e-mail clients shall be allowed. Interested users can only message to seller's via in-site messaging. One round of messaging (from user to seller) is enough for this application
11. Pay functionality, if any (e.g. paying for goods and services) shall not be implemented nor simulated in UI.
12. Site security: basic best practices shall be applied (as covered in the class) for main data items
13. Media formats shall be standard as used in the market today
14. Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development
15. The website shall prominently display the following exact text on all pages "SFSU Software Engineering Project CSC 648-848, Summer 2020. For Demonstration Only" at the top of the WWW page. (Important so as to not confuse this with a real application).

Competitive Analysis

Features	Homefinder	Rent	Trulia	Zillow	Chillow
Searching/Filtering	+	+	++	+	++
SFSU Mapping	-	-	-	-	++
SFSU Exclusive	-	-	-	-	++
Financial Advising	++	+	+	+	-
Roommate Finder	-	-	-	+	++
Google Map Search	+	+	+	++	+

+ good

- not available

++ excellent

The focus of Chillow is to minimize the stressors that San Francisco State University students and staff endure outside of the University. Our driving force is to create an environment that not only prioritizes students and staff within the housing market, but to diversify the experience and allow for any student and staff that joins the SFSU community to feel inclusive. Unlike traditional Rental websites, Chillow accomplishes this by enabling students and staff to connect and search with other students and staff that are in similar positions. This allows for students and staff to create their own comfortable environments with others who might share the same study field, work field, or even primary language. Other benefits that we provide, in comparison with other websites such as Zillow or Trulia, is an SFSU map that estimates campus distances. Chillow provides the tools to allow users to carefully plan out their distances from home to campus, giving students the ability to be closer to amenities. As an example, a registered user may choose to be closer to specific facilities such as the Fitness Center, or they may choose to be closer to the Computer Science hall where the majority of their studies may be. The aim and focus for Chillow is to diversify house-hunting for personal and unique searching, while prioritizing the student and staff community of San Francisco State University.

High-Level System Architecture and Technologies Used

Itemized List of all main Software Components	
Backend API	node.js
Database Management	MySQL
Deployment Platform	AWS (Amazon Web Service)
Frontend Framework	Bootstrap
Language	JavaScript

Team and Roles

Name	Role(s)
Valdemar Puente-Gonzalez	Team Lead
Daniel Belmeur	Front-End Lead
Sean Ellis	Team Member Front-End
Philip Smith	Back-End Lead
Salah Ali	Team Member Back-End
Karan Gurung	Git Master

Checklist

1. So far, all team members are engaged and attending ZOOM sessions when required?

DONE

2. Team found a time slot to meet outside of the class?

DONE

3. GitHub master chosen?

DONE

4. Team decided and agreed together on using the listed SW tools and deployment server?

DONE

5 Team ready and able to use the chosen back and front-end frameworks and those who need to learn are working on learning and practicing?

DONE

6 Team lead ensured that all team members read the final M1 and agree/understand it before submission

DONE

7 GitHub organized as discussed in class (e.g. master branch, development branch, folder for milestone documents, etc)?

DONE

Milestone 2

SW Engineering CSC648/848 Summer 2020 Chillow Team 6

Team Members:

Valdemar Puente-Gonzalez (Team Lead)

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Daniel Belmeur (Front-End Lead)

Sean Ellis

Philip Smith (Back-End Lead)

Salah Ali

Karan Gurung (Git Master)

Milestone 2
8 July 2020

Revised:
10 July 2020

Functional Requirements

1. Priority 1 (Must Have)

- 1.2 Unregistered users shall be able to browse homes on our marketplace
- 1.3 Unregistered users shall be able to search and browse by categories
- 1.4 Unregistered users shall be able filter by:
 - 1.4 Unregistered users shall be able to filter by Price
 - 1.5 Unregistered users shall be able to filter by Address
 - 1.6 Unregistered users shall be able to filter by Zip Code
 - 1.7 Unregistered users shall be able to filter by # of Bed/Bath
 - 1.8 Unregistered users shall be able to filter by Square footage
 - 1.9 Unregistered users shall be able to filter by Type of View
 - 1.10 Unregistered users shall be able to filter by Parking
 - 1.11 Unregistered users shall be able to see rental listing information
 - 1.12 Unregistered users shall be able to view reviews
 - 1.13 Unregistered users shall be able to see ratings
 - 1.14 Registered users have all functionality of a non-registered
 - 1.15 Registered users shall be able to login and register to our site user
 - 1.16 Registered users shall be able to sell, buy or rent property
 - 1.17 Registered users shall be able to send messages to other users
 - 1.18 Registered users shall be able to post listings
 - 1.19 Registered users shall be able to reset their username or password
 - 1.20 Registered users shall have all personal sensitive data saved on our servers encrypted
 - 1.21 Admin users shall have all functionality of a registered user
 - 1.22 Admin shall be required to approve all posts
 - 1.23 Admin shall ban suspicious users
 - 1.24 Admin shall block suspicious posts

2. Priority 2 (Desired)

- 2.1 Registered users shall have a watchlist of favorite properties
- 2.2 Registered users shall have the ability to leave a rating after doing business
- 2.3 Registered users shall be able to write reviews
- 2.4 Registered users shall have a transaction history on profile
- 2.5 Unregistered users shall be able to share postings with friends
- 2.6 Unregistered users shall be able to compare homes qualities
- 2.7 Unregistered users shall be able to filter by animal
- 2.8 Unregistered users shall be able to filter by spoken language
- 2.9 Unregistered users shall be able to determine transportation availability

3. Priority 3 (Opportunistic)

- 3.1 Unregistered users shall be able to utilize an in-home viewer
- Unregistered users shall be able to expand the animal filter specifying animal type and size
- 3.3 Unregistered users shall be able to determine local activities around property

List of Main Data Items and Entities

5. Registration record

- Permissions ID [1, 2, or 3] (permissions of registration classified as follows):

Administrator (1)

- Attributes: First Name, Last Name, Email, Password

SFSU User (2)

- Attributes: First Name, Last Name, Email (must contain '@sfsu.edu'), Password

Registered User (3)

- Attributes: First Name, Last Name, Email, Password

6. Rental listing

- Attributes: Address, Description, Pictures, Price, Unique ID of listing user, CATEGORY:(apt, room, house), TYPE: (sell/rent) Approved by Admin (Y/N)

7. Messages

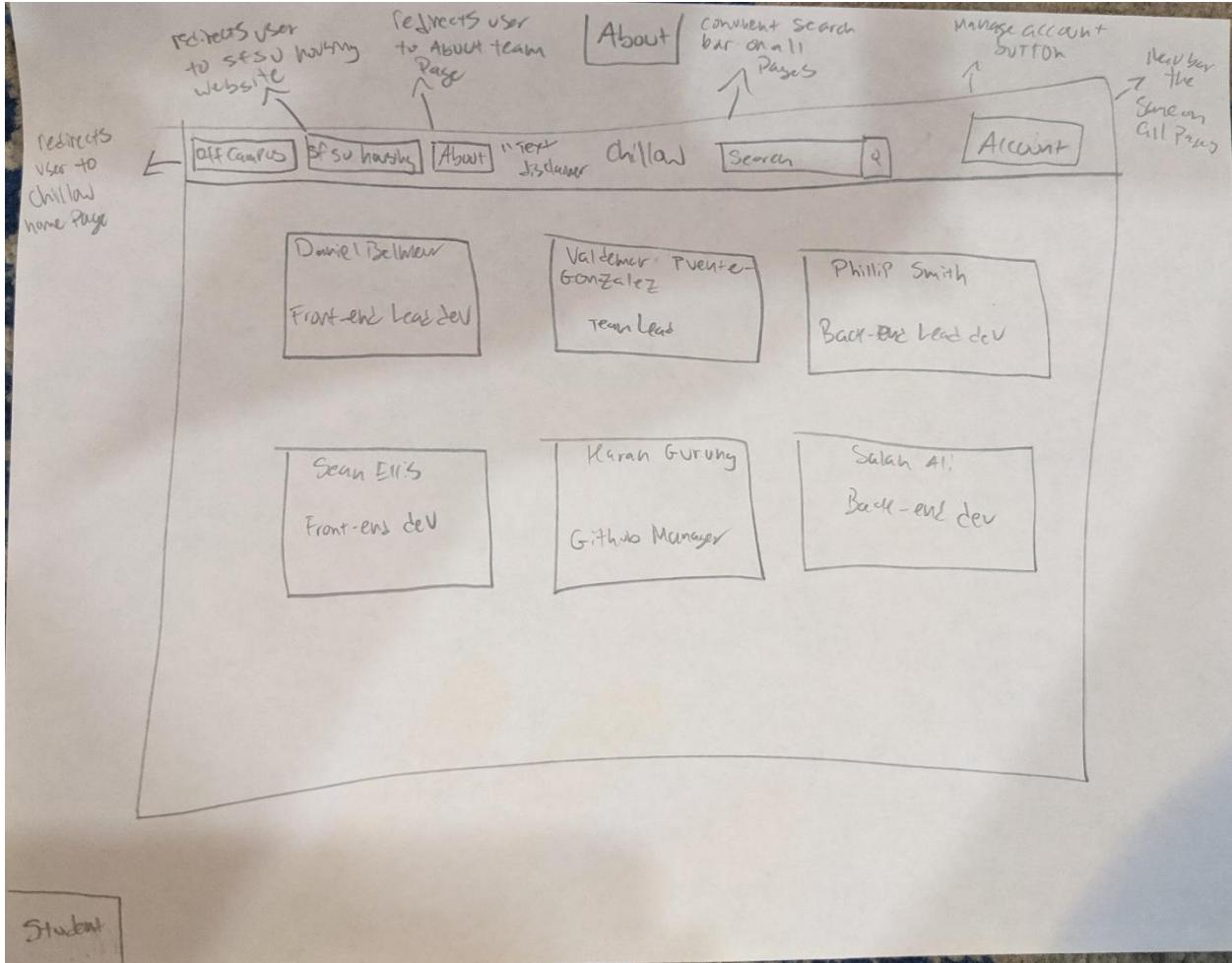
- User ID of sender (must be student or faculty), User ID of recipient (listing user), Message Content, Date/Time Stamp, ID of listings

8. Login Queue

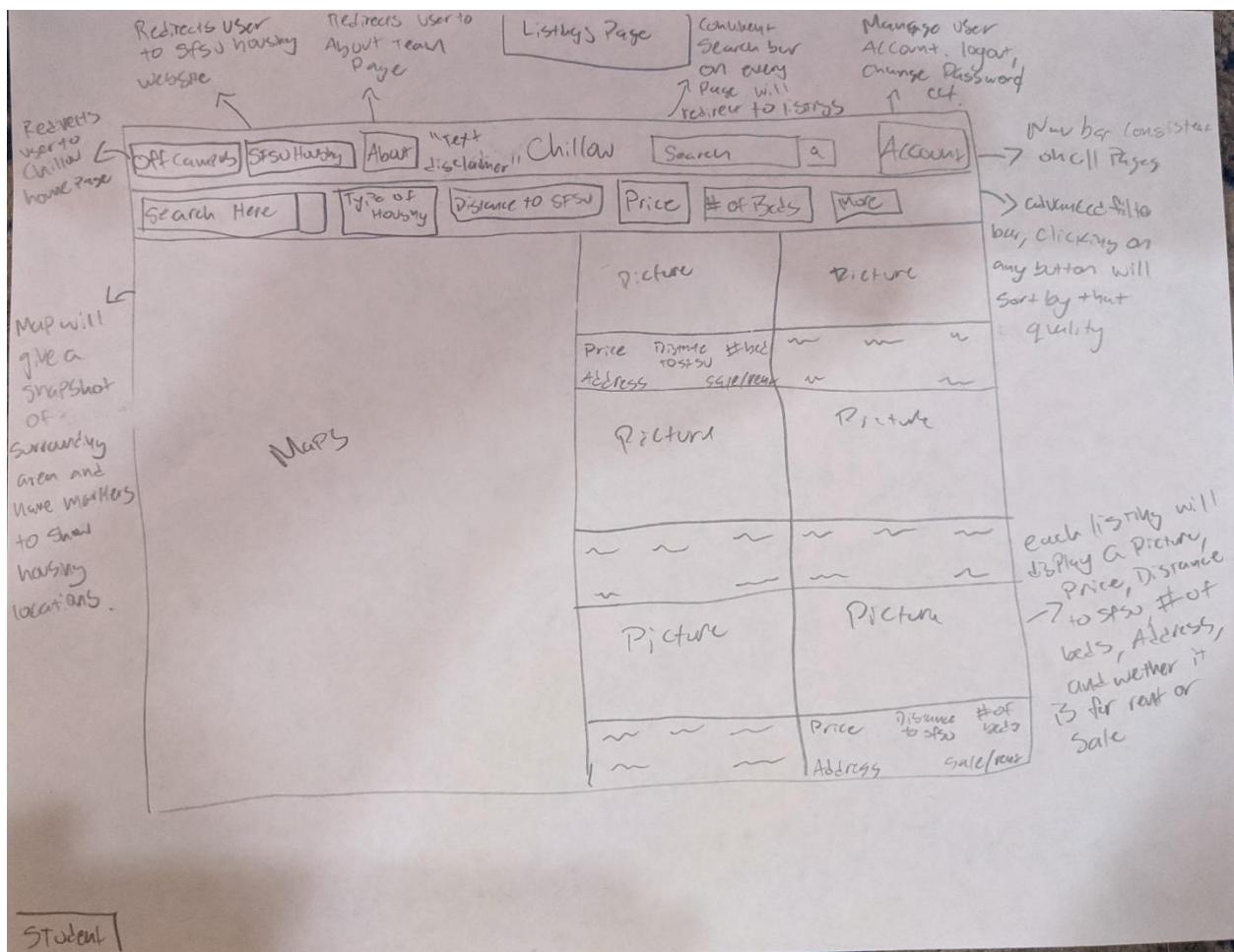
- List of unique user IDs of users logged in (capped at 50)

UI Mockups and Storyboards

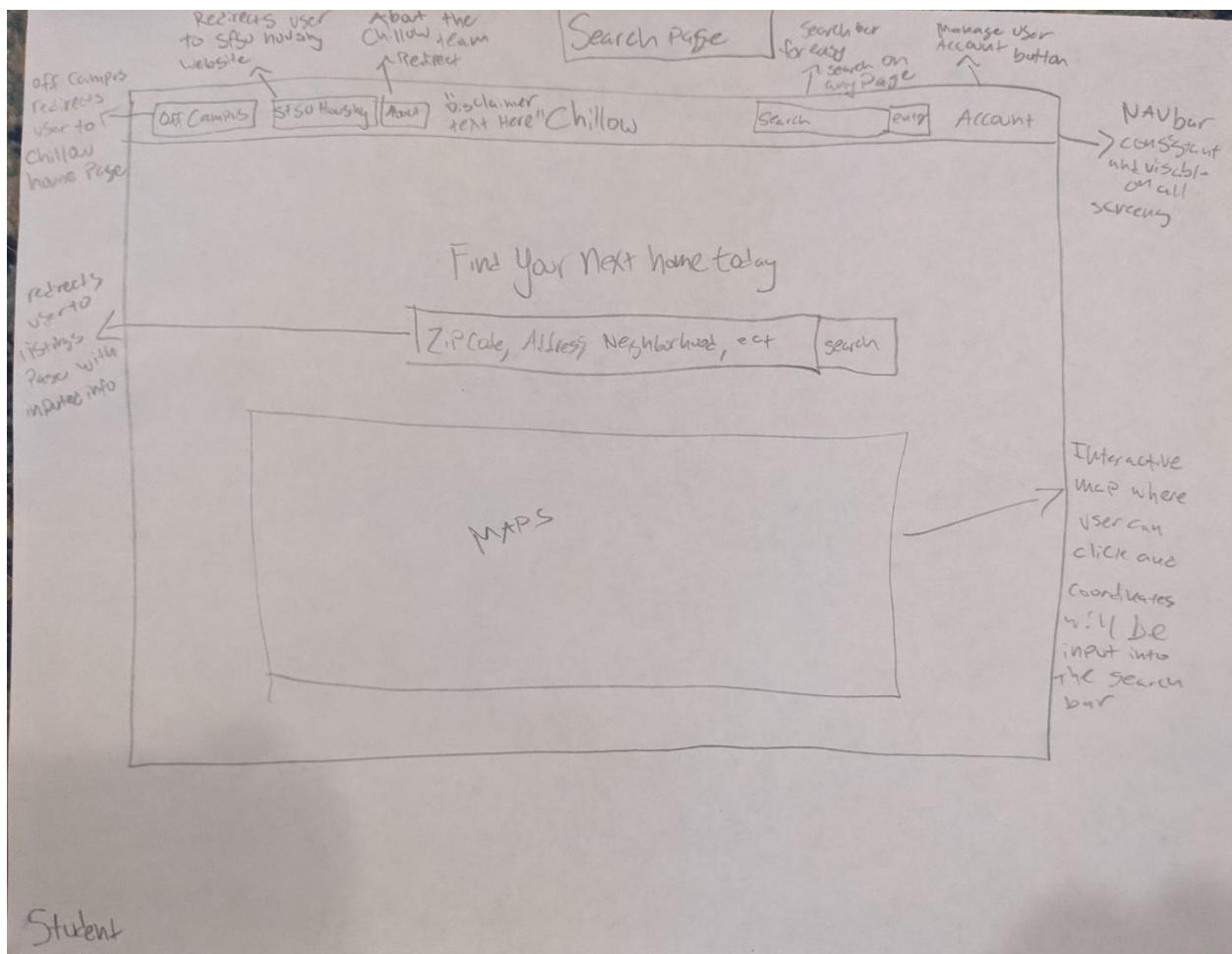
1. Student



This is the about page as it looks from the student view

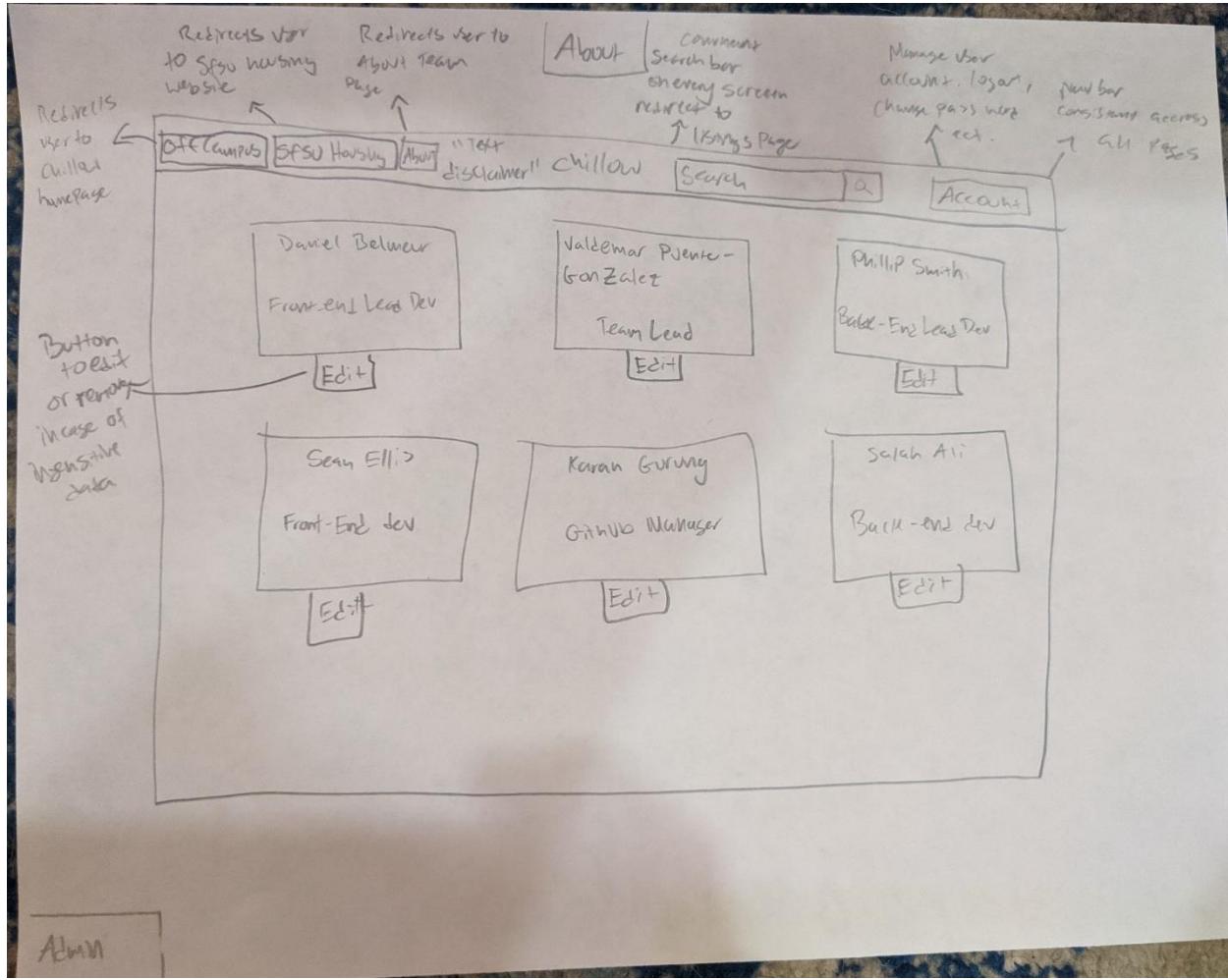


This is the listings page in student view

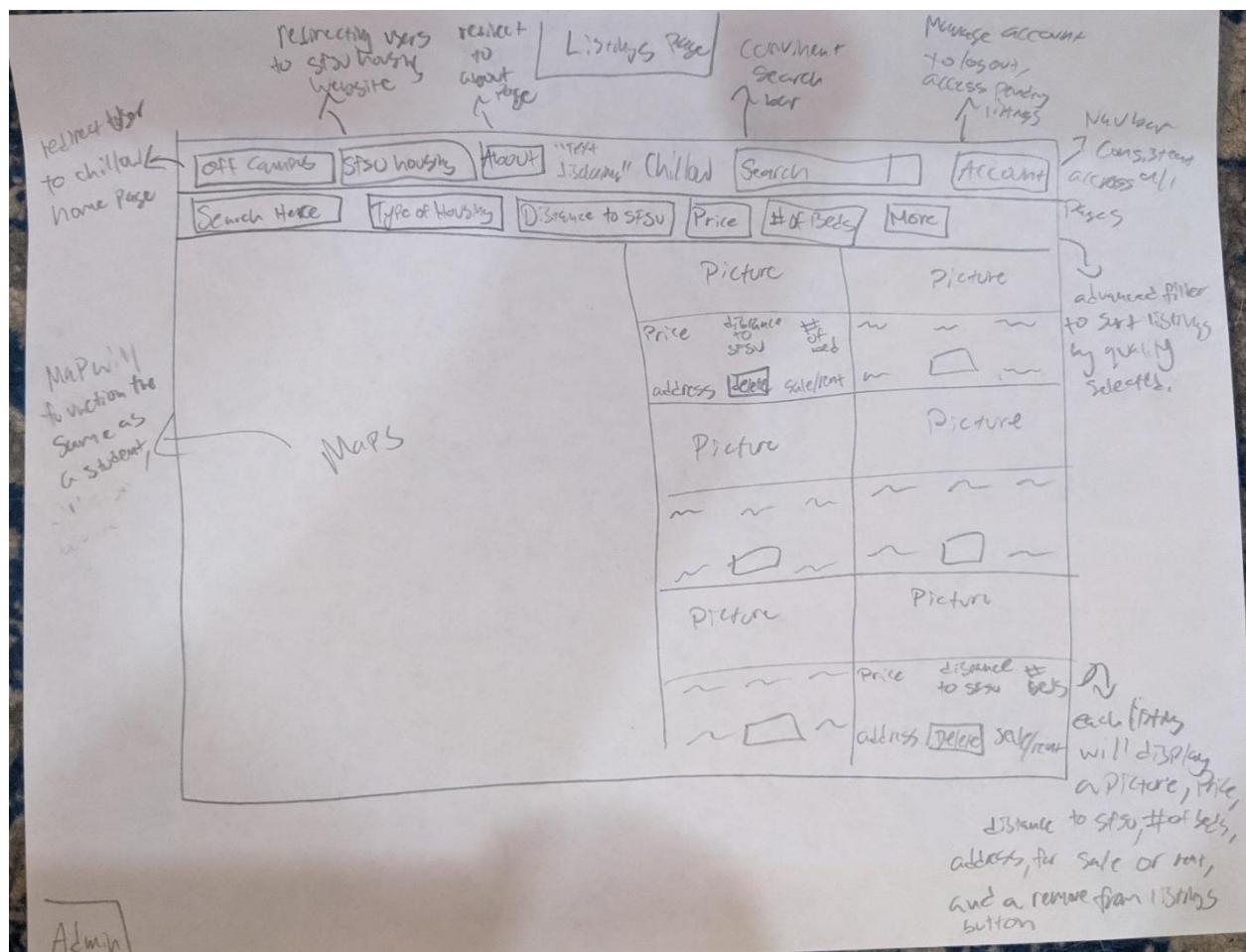


This is the home page in student view

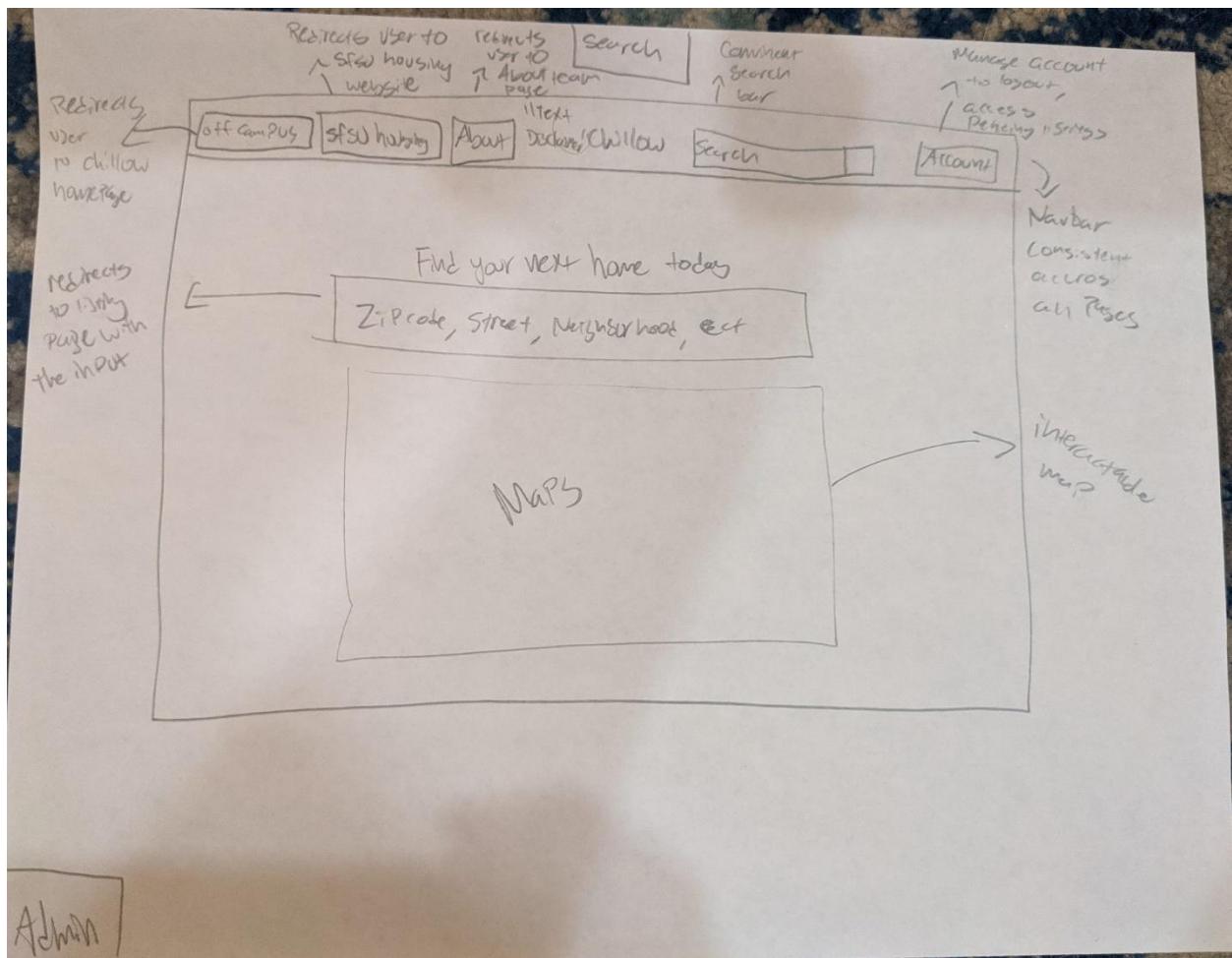
2. Admin



This is the about page in Admin view

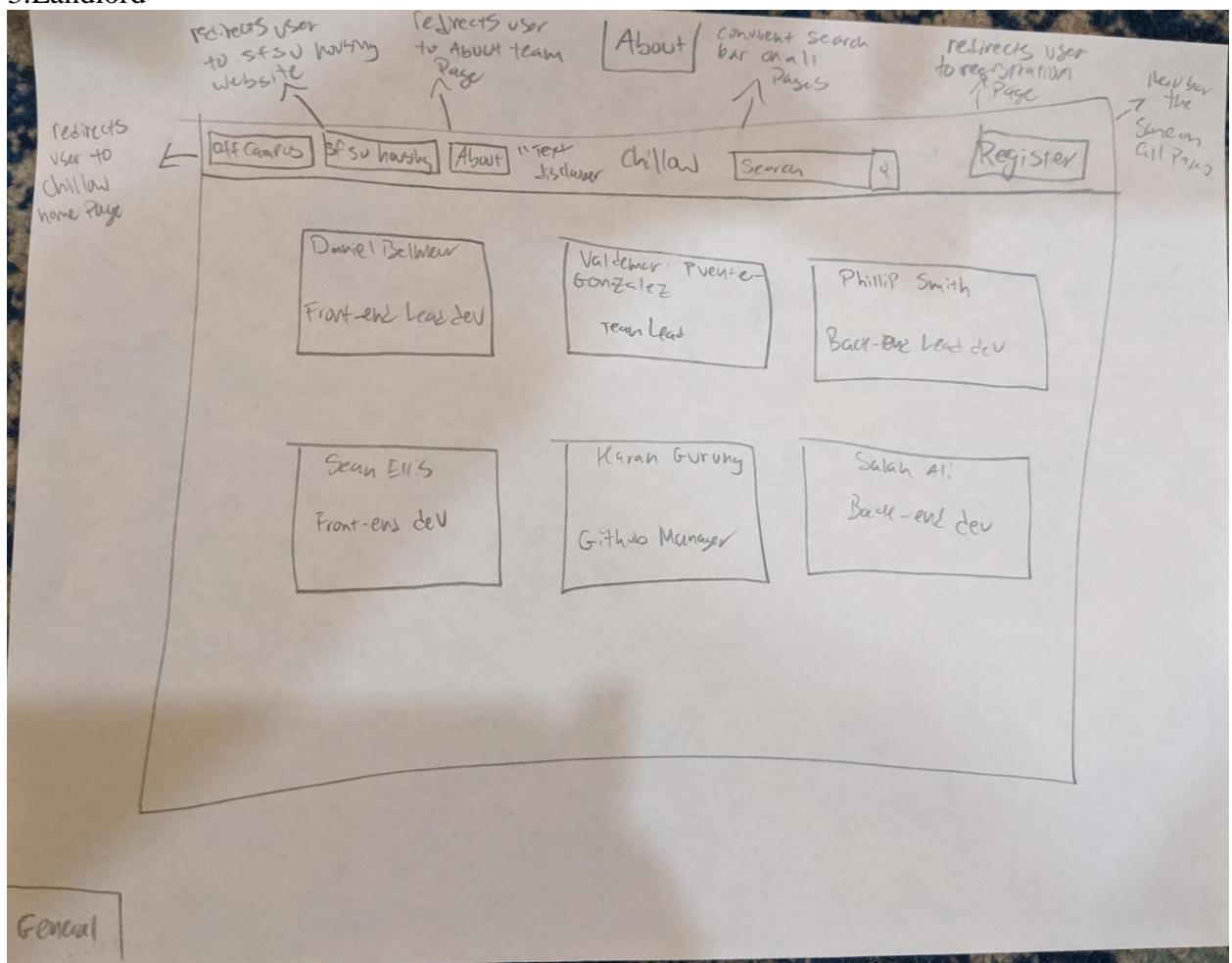


This is the listings page in Admin view

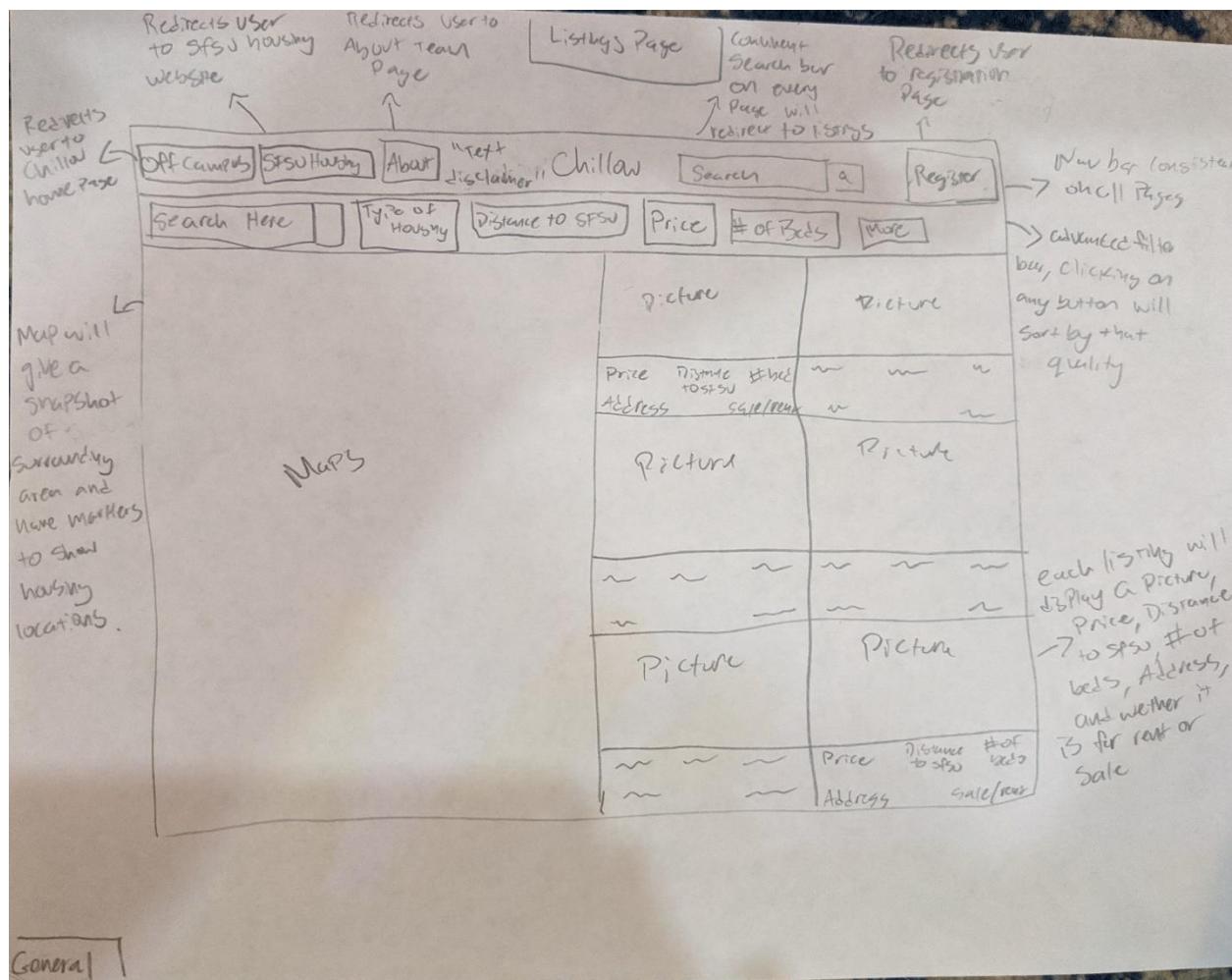


This is the home page in Admin view.

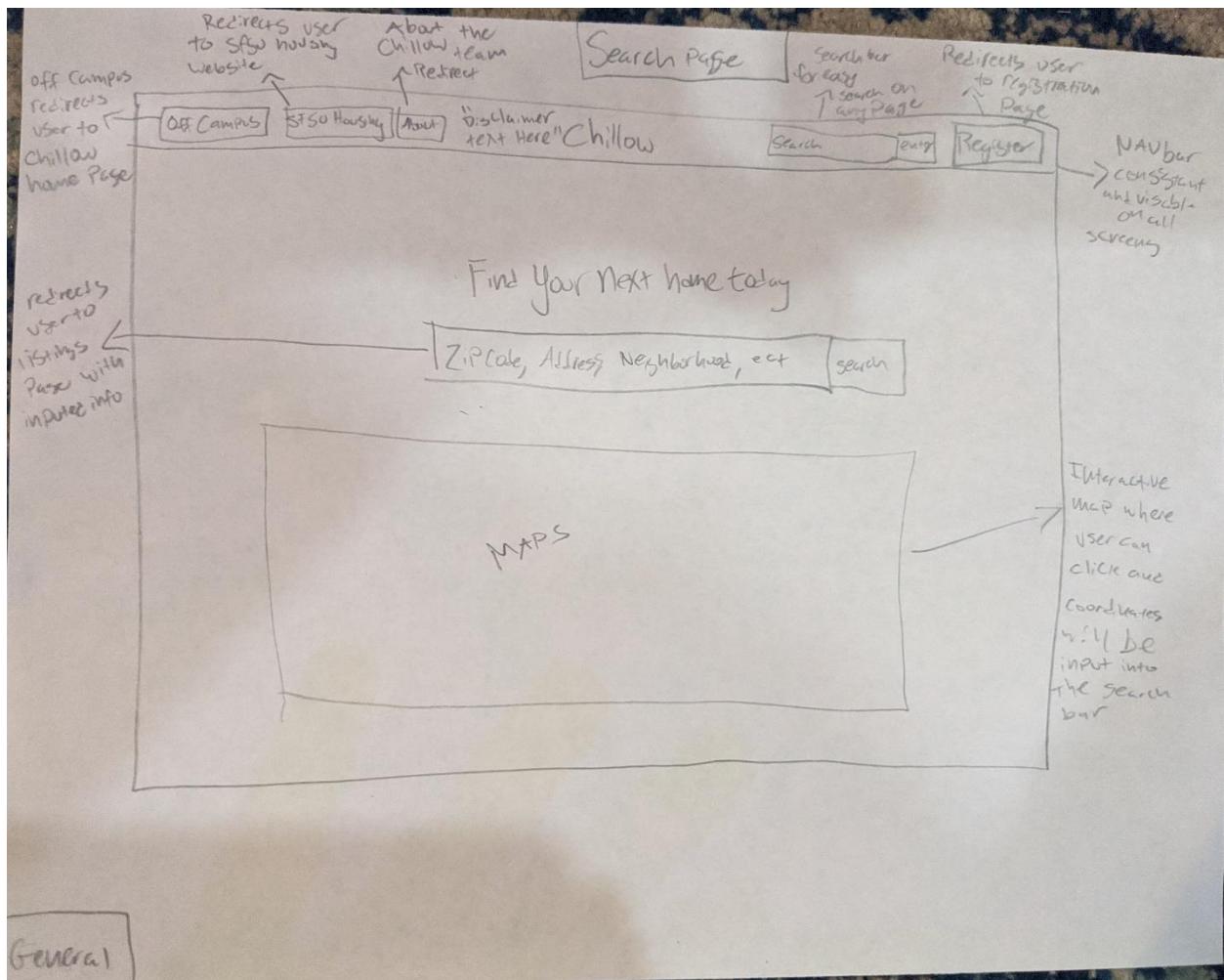
3. Landlord



This is the about page as seen by Landlord

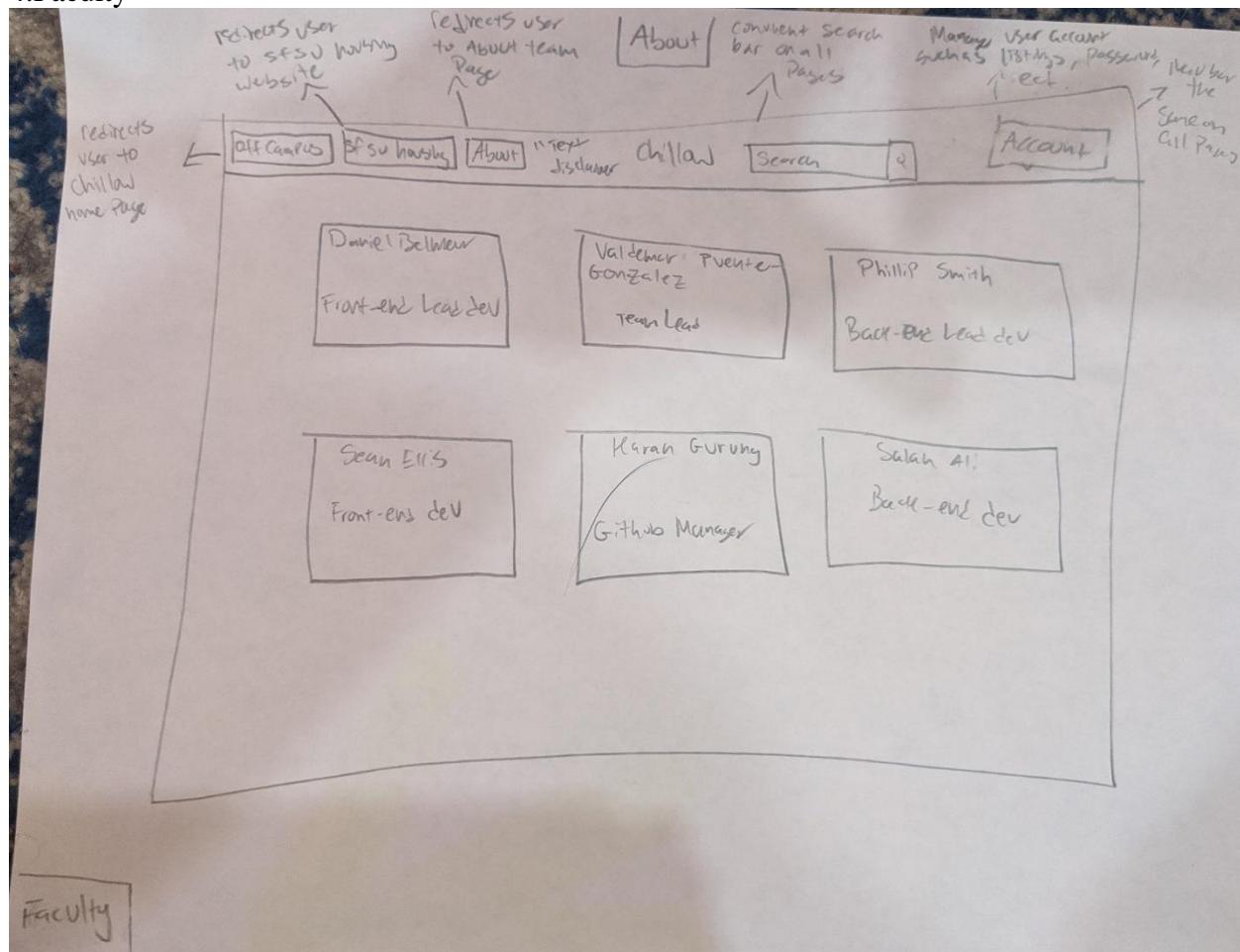


This is the listings page as seen by Landlord

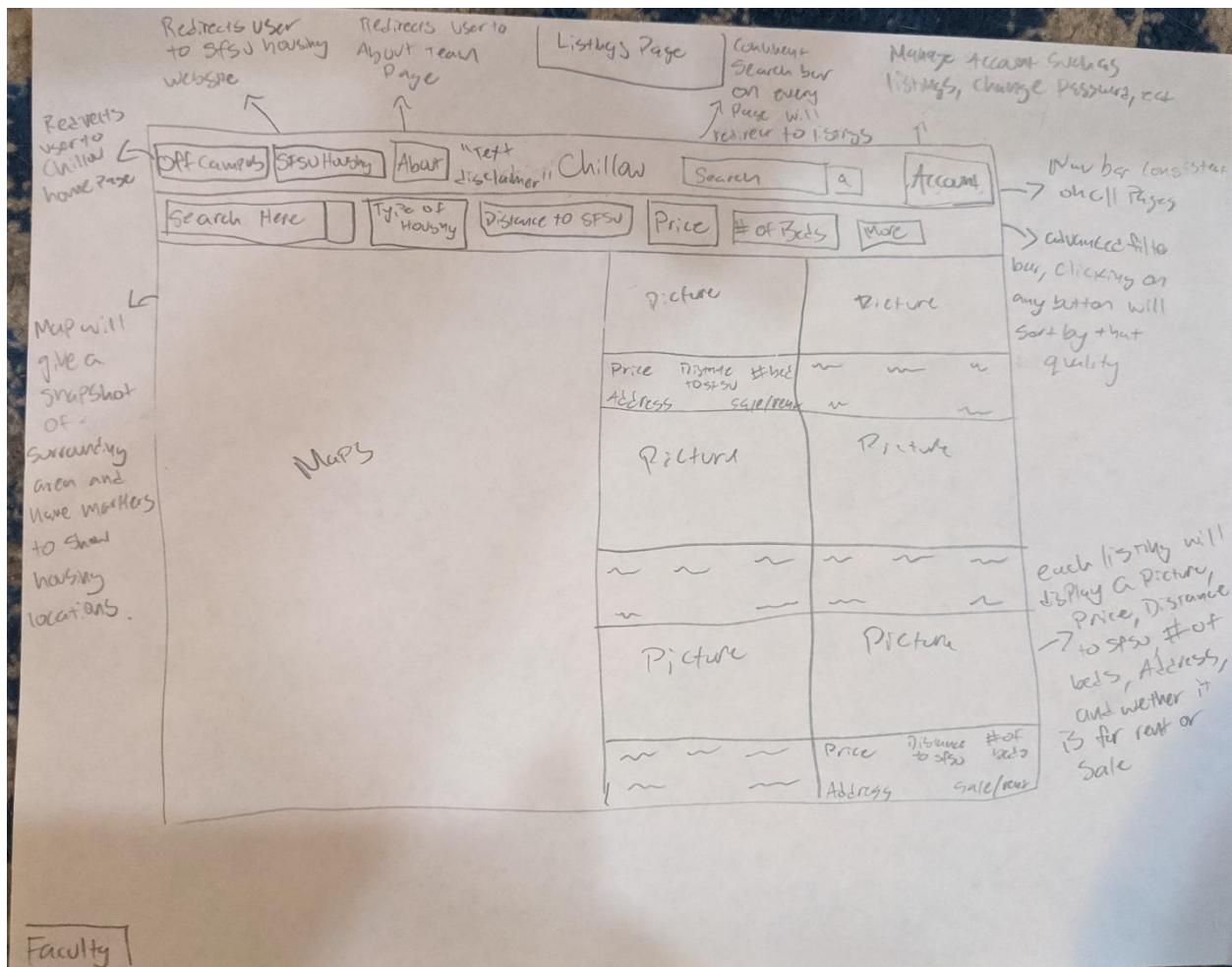


This is the homepage as seen by Landlord

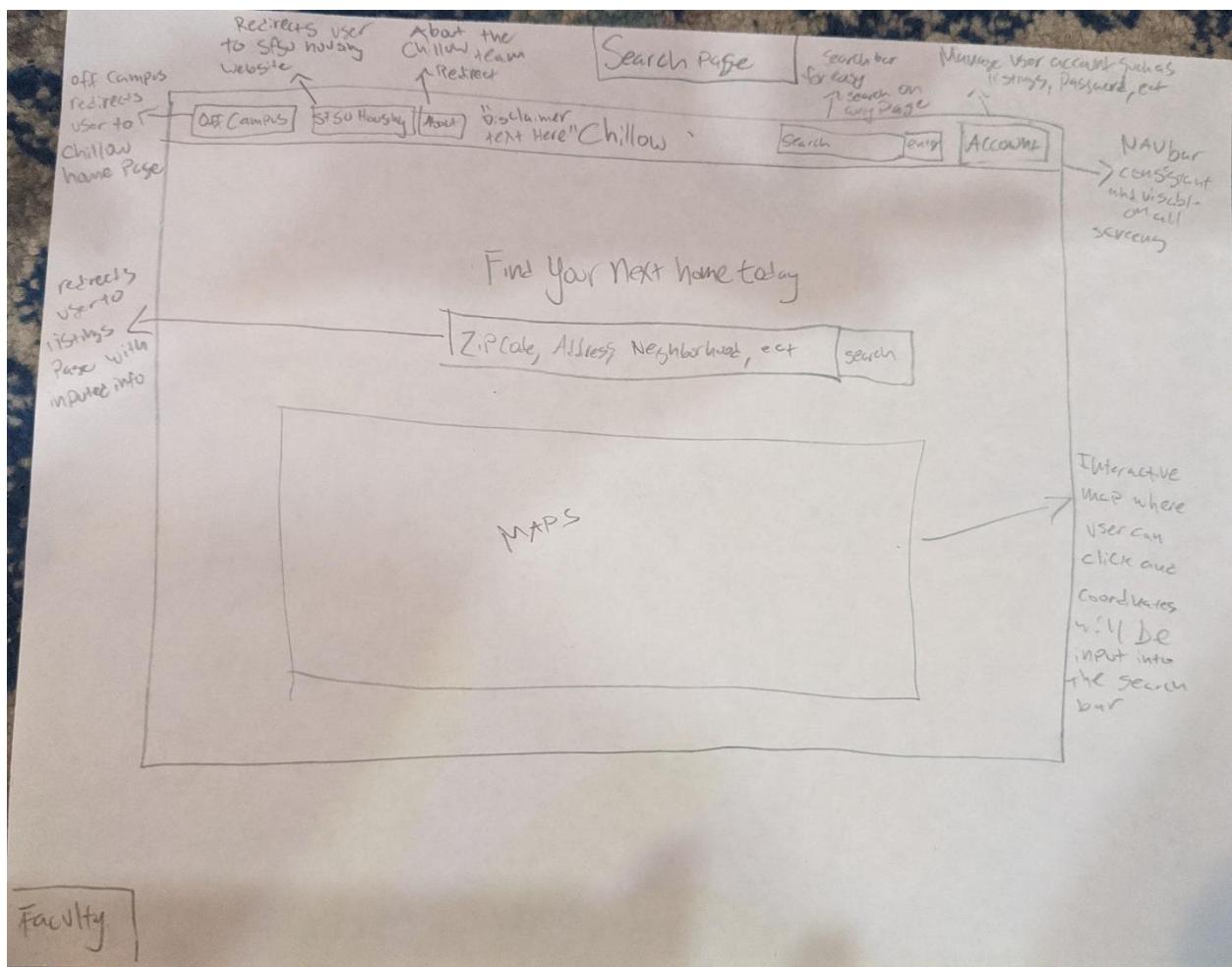
4. Faculty



This is the about page as seen by Faculty Member



This is the listings as seen by Faculty Member



This is the homepage as seen by Faculty Member

HIGH Level Architecture, Database, Organization

DB Organization:

Our database consists of the following schema:

- listings
 - listing_id
 - lister_uid
 - street_addr
 - city
 - zipcode
 - num_beds
 - num_baths
 - square_ft
 - parking
 - pets
 - description
- messages
 - msg_id
 - sender_id
 - recipient_id
 - msg_text
- users
 - uid
 - first_name
 - last_name
 - email
 - password
 - sfsu_verified

Media Storage:

For our media storage we are using an S3 bucket. This is a AWS cloud platform that allows us to create a storage location off of our git branches and work via the cloud

Search/Filter Architecture and Implementation:

The search algorithm we use utilizes the built in %LIKE operator in SQL to search through the element such as street address, city, and zip code. Then it returns all matches of each instance.

APIs:

In our APIs we are working on a Restful API using MySQL wrapped in Sequelize. The RESTful API will allow us to define the constraints that we will implement in creating the architecture of our webservice.

Project Key Risks

Skills Risks:

With most of us coming from diverse backgrounds of programming. Our skill levels vary with each programming language we know.

To help this I have assigned a advanced level programmer to our less experienced programmers. This way there is the Mentor Mentee relationship and they can grow from learning and teaching one and other in fields they may feel more comfortable in.

Schedule Risks:

As some of us have other classes, work, and commitments this poses a problem to the normal workflow environment of a real software engineering company.

Ways to combat this is our group chat and Trello to assign tasks and ensure that they are being completed in a timely manner.

Technical Issues:

As students we are moving into unknown territories of coding and we may want to accomplish things in our program that may be out of our technical skill level.

Ways to solve this issue is to find programs and codes that have a lot of support. This is key so when we get stuck on something technical, we can find the answer to a problem that someone may have had before.

Legal/Content Risks:

There may come the issue of paying for content that we want on our site. This is something our team will try to avoid at all costs.

If this becomes an issue we will look or ask for an alternative method to include on our webpage.

Another issue is that we must put together listings on our page which requires addresses and photos and there is the risk of using real address and photos. This can become problematic as our site is a housing site and a housing site without photos to show in the listing is as good as garbage.

Project Management

With the setup of my team it was very easy to assign them to their specific tasks. The assignments for Milestone 2 went down the line. The front-end team and I are tasked with doing the documentation and mockup storyboards. The back-end team and git master were tasked with the creation of the DB entries, vertical prototype, and media storage. Going forward this will be the way the team will be split with any team that may finish its part able to help the other teams at that team leader's discretion. By doing it this way it helps ensure that not too many people are helping if it is unnecessary.

For team organization we went with Trello as a place to broadcast all the tasks without the fear of them getting lost in a thread like chat messenger. This makes it easier to assign tasks to a team and then divide them up by the individuals in the team.

Milestone 3

Milestone 3 Review Summary and Plans – CSC 648-848 Summer 2020 Team 6 Team 6

Review Date: 29 July 2020 30 July 2020

Team Members:

Valdemar Puente-Gonzalez (Team Lead)

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Daniel Belmeur (Front-End Lead)

Sean Ellis

Philip Smith (Back-End Lead)

Salah Ali

Karan Gurung (Git Master)

Summary of Feedback and Tasks to Do

After displaying our beta stage website, we received generally positive feedback. The changes recommended from the site ranged from minor to medium changes. With our home page it was recommended that we modify the text surrounding the search bar in the middle of the screen. It was also recommended that if we wished to keep the search bar centered on the home page where it currently remained to create 2 CSS, one for the home page and the other for the nav bar. This choice would be ours to make but having the search on the nav bar was emphasized. Other feedback mentioned the overall feel of the homepage felt empty. There was nothing to indicate what was being sold or done on the site. To fix this problem it was recommended to add recently posted or rented listings to give users coming to the site a better feel of what is in store.

On our listing page the positive reviews continued with comments about the layout and the number of available listing already available. There were good comments of the way that clicking a listing would create a pop up that would keep you on the listing page was a well-executed plan. But for each listing having the listing include a contact seller without having to click into the listing was another recommended task. This was also extended to changing the color of the “for sale” text from red to another color of our choosing. Continuing changes would be in the look of the search bar. The fix was to create a search bar like that used by Amazon. While the team created some great amenities a lot of them were unnecessary in the final delivery. The fix was to remove the amenities and focus on the search filter of distance to campus. This was given the highest priority to implement.

The final reviewed sector was the database and GitHub. While the database was praised for its cleanliness and clarity of each subject. The GitHub needed some changes in the comments. This

will be a fix for the Git Master and myself to better control the comments and code being pushed to the team GitHub page.

List of Tasks for Final Delivery

- Complete the Distance from SF State
- Move the disclaimer to the top of the nav bar
- Modify the text of the search box on the homepage
 - Or remodel the entire homepage
- Add a contact button on each posted listing
- Remove the unnecessary amenities
- Change the color of the “For Sale” text
- Remove the “Search Off Campus” link
- Finish the login/registration link
- Complete the messaging text field
 - Ensure it prefills: the date, listing address, and username
- Remodel the search box
- Complete post listing form
- Make sure to include disclaimer after posting a listing that says “May take up to 24hrs to approve”
- Clean up the GitHub

List of Final Product P1 Functions

- Users shall be able to browse homes on our marketplace
- Users shall be able to search and browse by categories
- Users shall be able to filter by price
- Users shall be able to filter by address
- Users shall be able to filter by zip code
- Users shall be able to filter by numbers of bedrooms
- Users shall be able to filter by number of bathrooms
- Users shall be able to filter by square footage
- Users shall be able to filter by type of view
- Users shall be able to filter by type of parking
- Users shall be able to see rental listing information
- Users shall be able to register for an account
- SF State Students/Faculty shall be able to send messages to landlords
- Registered users have all the functionality of a non-registered user
- Registered users shall be able to login to their account

- Registered users shall be able to post listings
- Registered users shall be able to reset their username or password
- Registered users shall have all personal sensitive data save on our servers encrypted
- Admin shall be required to approve all posts
- Admin shall be able to ban suspicious user
- Admin shall be able to block suspicious post

Milestone 4

SW Engineering CSC648/848 Summer 2020 Chillow Team 6

Team Members:

Valdemar Puente-Gonzalez (Team Lead)
vpuentegonzalez@mail.sfsu.edu
Daniel Belmeur (Front-End Lead)
Sean Ellis
Philip Smith (Back-End Lead)
Salah Ali
Karan Gurung (Git Master)

Milestone 4
3 August 2020

Revisions:
5 August 2020

Product Summary

Chillow

Final P1 Functions:

- Users shall be able to browse homes on our marketplace
- Users shall be able to search and browse by categories (Pets, Distance from Campus, etc)
- Users shall be able to filter by price
- Users shall be able to filter by address
- Users shall be able to filter by zip code
- Users shall be able to filter by numbers of bedrooms
- Users shall be able to filter by number of bathrooms
- Users shall be able to filter by square footage
- Users shall be able to filter by type of view (City, Waterfront View, Suburb, etc)
- Users shall be able to filter by type of parking
- Users shall be able to see rental listing information
- Users shall be able to register for an account
- SF State students/faculty shall be able to send messages to landlords
- Registered users have all the functionality of a non-registered user
- Registered users shall be able to login to their account
- Registered users shall be able to post listings
- Registered users shall be able to reset their username or password
- Registered users shall have all personal sensitive data save on our servers encrypted
- Admin shall be required to approve all posts
- Admin shall be able to ban suspicious user
- Admin shall be able to block suspicious post

<http://chillo-env.eba-btvmjin2.us-west-1.elasticbeanstalk.com/>

Usability Test Plan

Test Objectives:

For our usability test we are testing the search function. We chose the search function because of the filters that have been created. Each filter in itself is a specific feature, in which we have confidence in their reliability but wish to confirm this. This will be accomplished through a series of simple instructions that describe to the user what do. Each test will assess the efficiency of the search function through user inputs.

Test Background and Setup:

The setup for the test will be simple single room setup with a working computer or laptop connected to the internet. There will be an observer present to evaluate and problem solve any technical issue.

The starting point for the test will be to receive a set of task and descriptions. The user will then follow the descriptions to the best of their knowledge.

This is the URL to the website that will be tested. <http://chillo-env.eba-btvmjin2.us-west-1.elasticbeanstalk.com/>. Here the intent is to test the functionality of the search function. This will be measure by the effectiveness of the search and its filters. Each filter provides is own search functionality without the need to enter in text. The text input of the search function should return results related to the entered text. The results of the test will be measured by a Likert Test.

Usability Task Description:

1. Navigate to the listings page. Type in the search field “San Francisco”.
2. Navigate to the listings page Click on the more function and type “10” in the distance filter.
3. Navigate to the listings page. Click on the max amount field and type in “3000”

Here we want to test effectiveness by the completion rate of the task.

Second would be by how easily the description are to follow.

Lastly, we will measure it by the search results.

The efficiency will be measured by the time to complete the tasks.

How many clicks it takes to complete the task.

Lastly, the number of pages one must navigate to complete the task.

Likert Scale Questions:

- I found the instructions easy to follow (check one)
____ Yes ____ No
- I found the site easy to navigate (check one)
____ Strongly disagree ____ Disagree
____ Neither agree or disagree
____ Agree ____ Strongly agree
- I found search function easy to use (check one)
____ Strongly disagree ____ Disagree
____ Neither agree or disagree
____ Agree ____ Strongly agree

QA Test Plan

Test Objectives:

For our usability test we are testing the search function. We chose the search function because of the filters that have been created. Each filter in itself is a specific feature, in which we have confidence in their reliability but wish to confirm this. This will be accomplished through a series

of simple instructions that describe to the user what do. Each test will assess the efficiency of the search function through user inputs.

HW and SW Setup:

Hardware setup will include a laptop or PC with internet access. This system may use which ever preferred browser they would want to use (e.g. Chrome, IE, Firefox, more). The set up will also include the use of a single room with monitors readily available to help if any technical issues should arise. Finally, they will be given a set of tasks to complete alongside the site URL:

<http://chillo-env.eba-btvmjin2.us-west-1.elasticbeanstalk.com/>

Feature to be Tested:

The search function

QA Test Plan:

<u>TEST#</u>	<u>TEST TITLE</u>	<u>TEST DESCRIPTION</u>	<u>TEST INPUT</u>	<u>EXPECTED CORRECT OUTPUT</u>	<u>TEST RESULTS (Pass/Fail)</u>
1	Text Test	Test % like. In search for name in field	Type “San Francisco” Into the search field	Return 3 results, each with “San Francisco” in the name field	1. PASS 2. PASS
2	Distance Test	Test the distance from the school using the distance filter	Type in “10” into the distance filter	Returns 2 results, that are within 10 miles	1. PASS 2. PASS
3	Price Test	Test % like. In the search for numbers in field	Type in “3000” in the max price field	Returns 2 results, that are listed under 3000	1. PASS 2. PASS

Code Review

From: Phillip Anthony Smith <psmith4@mail.sfsu.edu>
Sent: Monday, August 3, 2020 10:55 PM
To: Valdemar Puente-Gonzalez <vpuentegonzalez@mail.sfsu.edu>
Subject: Re: Code Review

The search algorithm is written well and organized. There is a header that explains the feature and describes what the module accomplishes. There are good inline comments on blocks that need explanation and I would suggest adding more within the '/search' route since the function block is very long and could be difficult to follow for others. Another suggestion I would make is to ensure tab consistency with the rest of the project which is 2 space length for javascript files typically. The search is a pivotal feature for the application and it is clear from the complexity and care put into the code that good work has been put into it with only minor stylistic improvements to be made. Lastly, to lighten the load, let's make sure we are removing any unused code where we can and shrink the module for best readability and conciseness.

- Phillip Smith
-

From: Valdemar Puente-Gonzalez <vpuentegonzalez@mail.sfsu.edu>
Sent: Monday, August 3, 2020 10:43 PM
To: Phillip Anthony Smith <psmith4@mail.sfsu.edu>
Subject: Code Review

Hey Phillip,

I have included some code for you to review. This is code of our search algorithm and would really appreciate your timely feed back. Please follow the guidance below on how to do it.

Code Review:

- a) By this time you should have chosen a coding style. In the report say what coding style you chose.
1. Chose the code (substantial portion of it) related to the feature you used for QA and usability test. One team member should submit code to other team member(s) for peer review.
2. Peer review should be performed by other group member(s) (1 review is OK).
3. Peer review is to be done by e-mail and comments are to be included in the code
4. What to submit? Submit the e-mail containing review or screen shot of the peer

review and commented code

Important: It is critical that code reviews are friendly and helpful, intended to help and education, and not to criticize. It is strongly suggested that you use peer review in the development of the whole system. Reviewers should also check for at least minimal code header and in-line comments and flag this as a problem if this is not adequate

Note: peer review must include checking for basic header and in-line comments

Thank you,
Valdemar

Self-Check: Security

Major Assets: -

- User information
- Messaging access
- Passwords
- Listings data

Major Threats: -

- Unauthorized dashboard access
- Unauthorized database access
- Unauthorized message access
- Sending unauthorized messages
- Inappropriate listing data appearing on page

Protection Plan: -

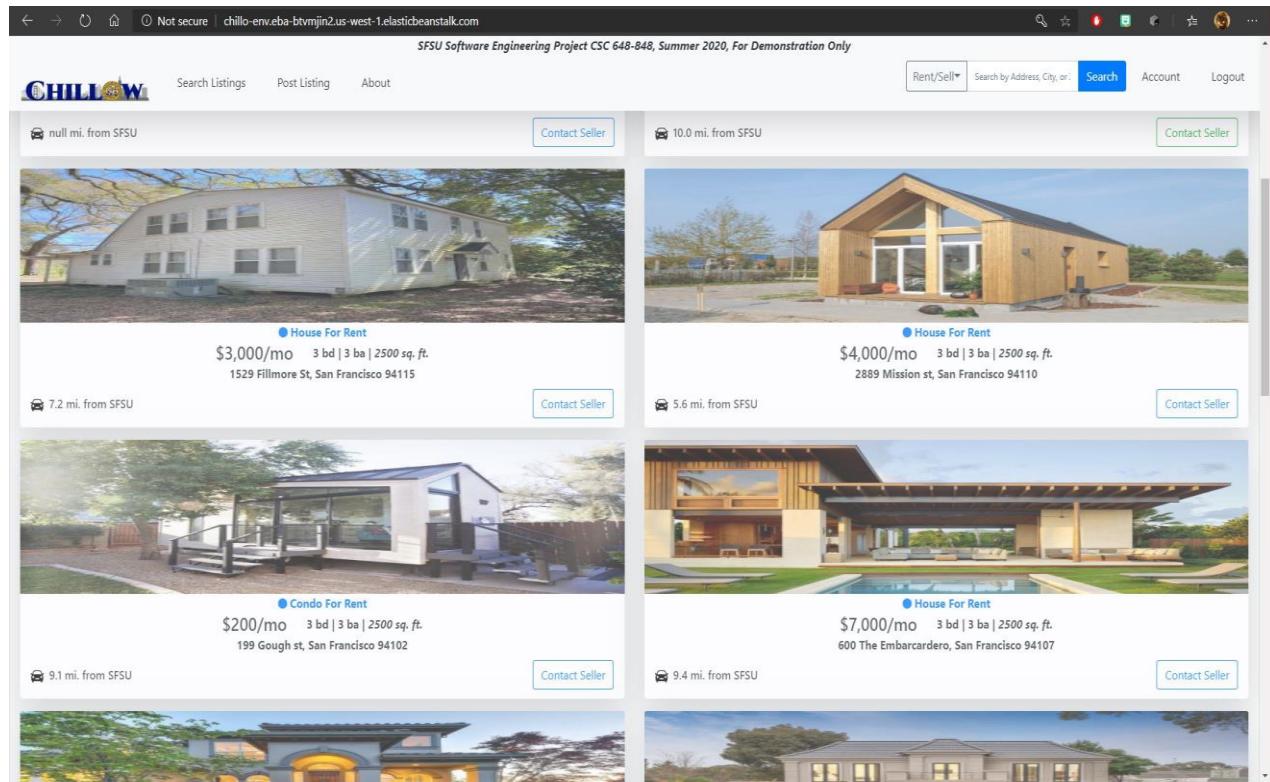
- User information cannot be accessed through site functions unless authentication is established. Routes and API functions are protected by passport authentication middleware.
- Form fields are validated and limited as appropriate. emails must be formatted as standard email structure. Only emails containing “@mail.sfsu.edu” can gain verified status to access messaging listers. Passwords must be 8 characters.
- Passwords are hashed when sent over http and before entering the database. No plaintext passwords will be stored.
- All listings must be approved by an administrator before being available to be viewed by users
- All listings, filing systems with images will be protected through an admin block in the database

Self-Check: Adherence of Non-functional Specs

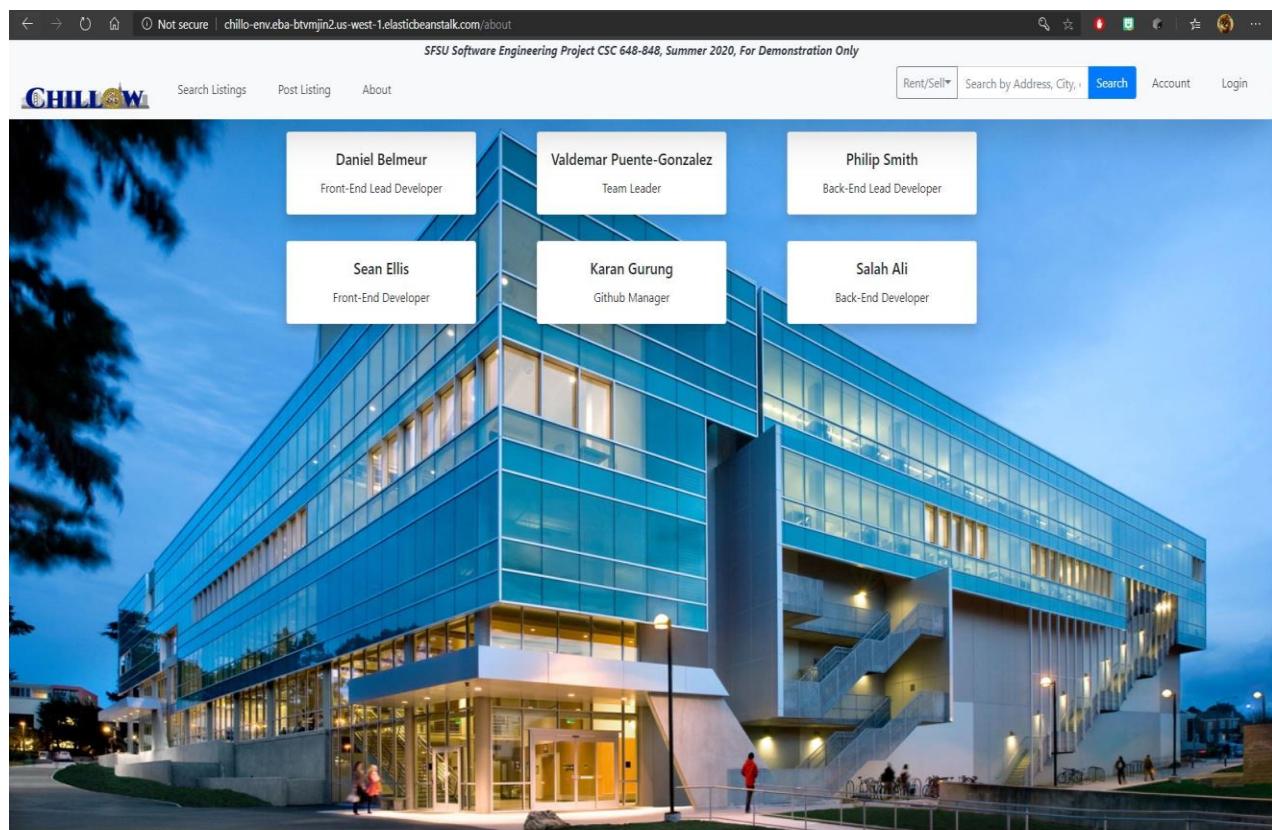
1. Application shall be developed, tested and deployed using tools and servers approved by Class CTO and as agree in M) (some may be provided in the class, some may be chosen by the student team but all tools and servers have to be approved by class CTO) - DONE
2. Application shall be optimized for standard desktop/laptop browsers e.g. must render correctly on the two latest versions of two major browsers - DONE
3. Selected application functions must render well on mobile devices - DONE
4. Data shall be stored in the team's chosen database technology on the team's deployment server - DONE
5. No more than 50 concurrent users shall be accessing the application at any time – ON TRACK
6. Privacy of users shall be protected, and all privacy policies will be appropriately communicated to the users - DONE
7. The language used shall be English (no localization needed) - DONE
8. Application shall be very easy to use and intuitive - DONE
9. Google analytics shall be used - DONE
10. No e-mail clients shall be allowed. Interested users can only message to seller's vis in-site messaging. One round of messaging (from user to seller) is enough for this application – ON TRACK
11. Pay functionality, if any (e.g. paying for goods and services) shall not be implemented nor simulated in UI - DONE
12. Site security: basic best practices shall be applied (as covered in the class) for main data items - DONE
13. Media formats shall be standard as used in the market today - DONE
14. Modern SE processes and practices shall be used as specified in the class, including collaborative and continuous SW development - DONE
15. The website shall prominently display the following exact text on all pages “SFSU Software Engineering Project CSC 648-848, Summer 2020. For Demonstration Only” at

the top of the WWW page (Important so as to not confuse this with a real application) –
DONE

Product Screen Shots



Chillow Homepage



This is the websites about page, clicking on the ink will display each team members about me profile.

← → ⌂ Not secure | chillo-env.eba-btvrnjz2.us-west-1.elasticbeanstalk.com/profile/valdemar-puente-gonzalez

SFSU Software Engineering Project CSC 648-848, Summer 2020, For Demonstration Only

CHILLOW Search Listings Post Listing About Rent/Sell Search by Address, City, ... Account Login



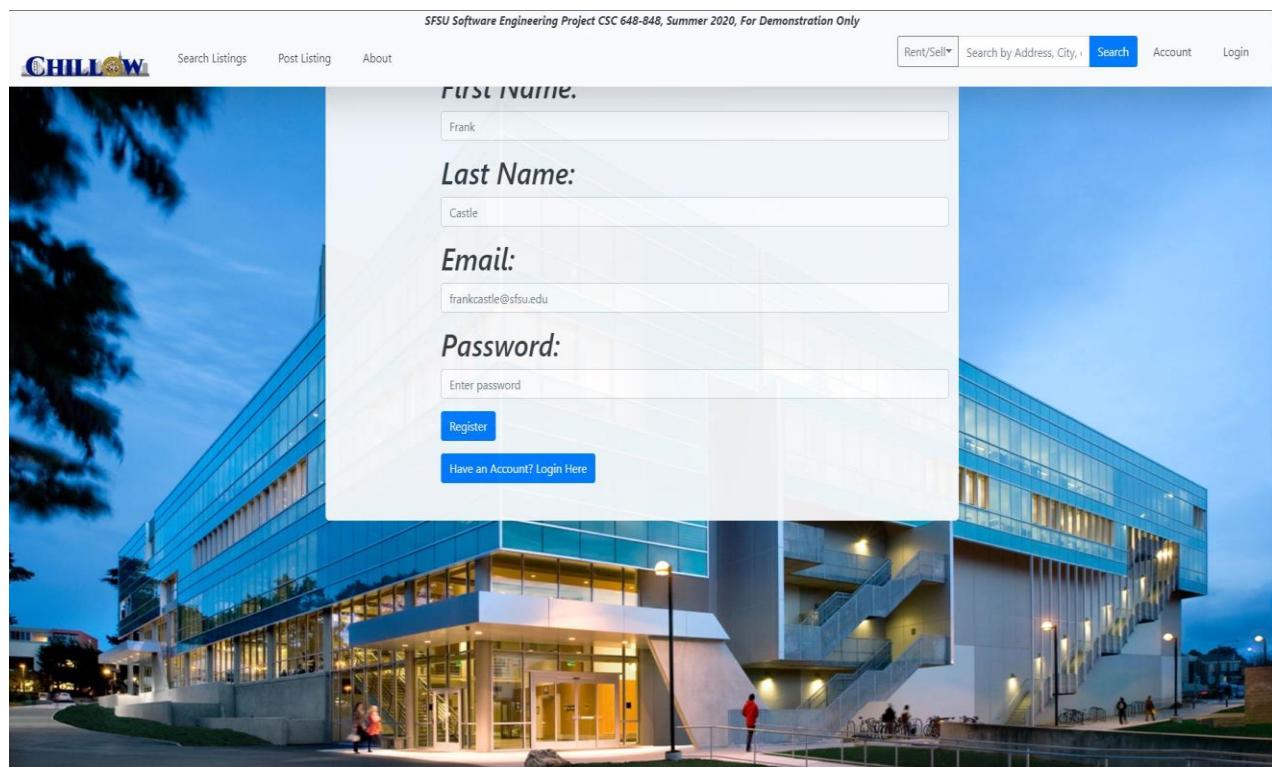
I am Valdemar Puente-González and currently a senior at San Francisco State University working towards my bachelor's in computer science. My road towards achieving my degree did not start early. After High School I joined the Army helped in combating the war on terrorism. Doing tours to both Iraq and Afghanistan. It was there I learned valuable life skills that I still use to this day. After my time in the service I began my road towards higher education. Starting at City College of San Francisco where I balanced both work and study. Until I transferred to State College doing the same and building up my skills in programming and building a network of friends. When not working or studying for classes I enjoy gaming with friends only, going to the gym, and volunteering at local cat rescues.

Valdemar Puente-Gonzalez
Team Lead

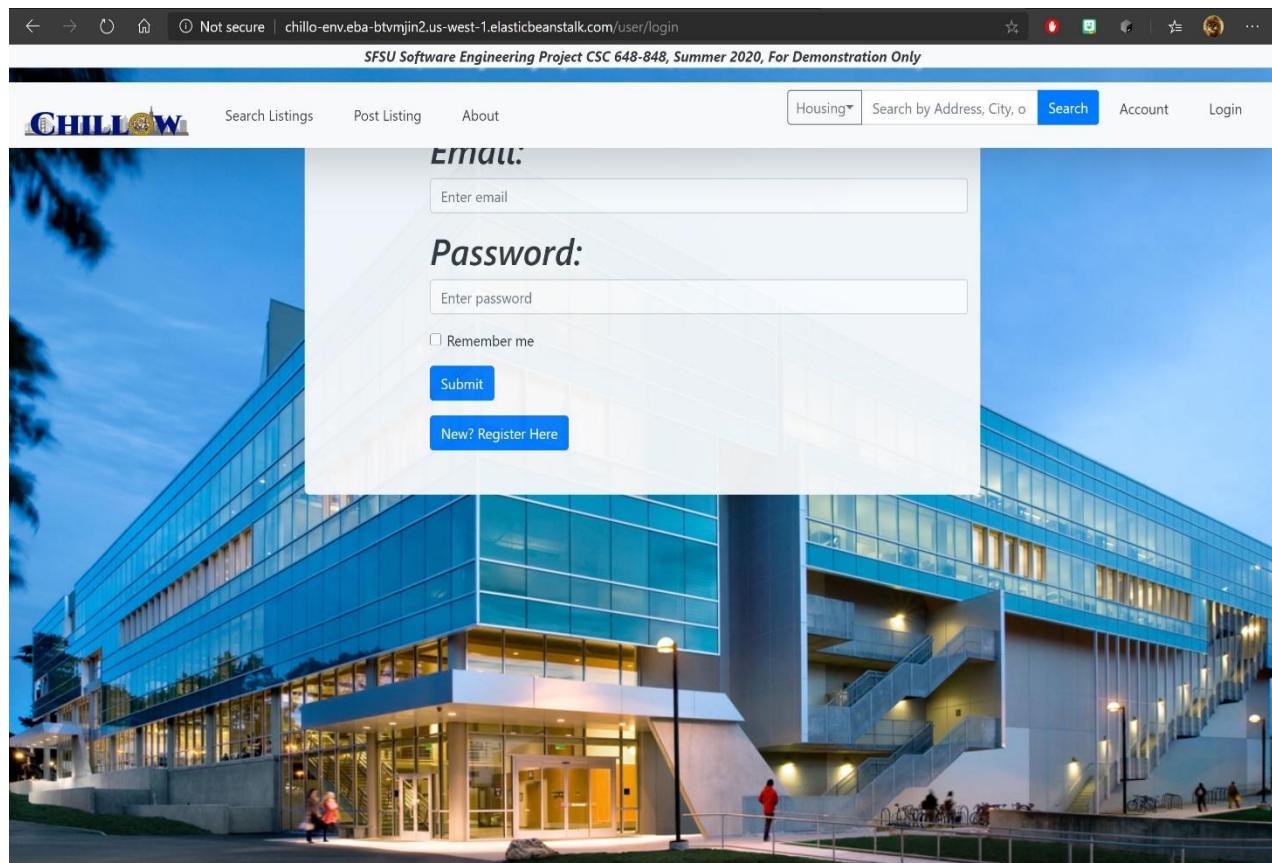
[Back To Team](#)



This is the view of the teams about me page.



Here is the Registration page view.

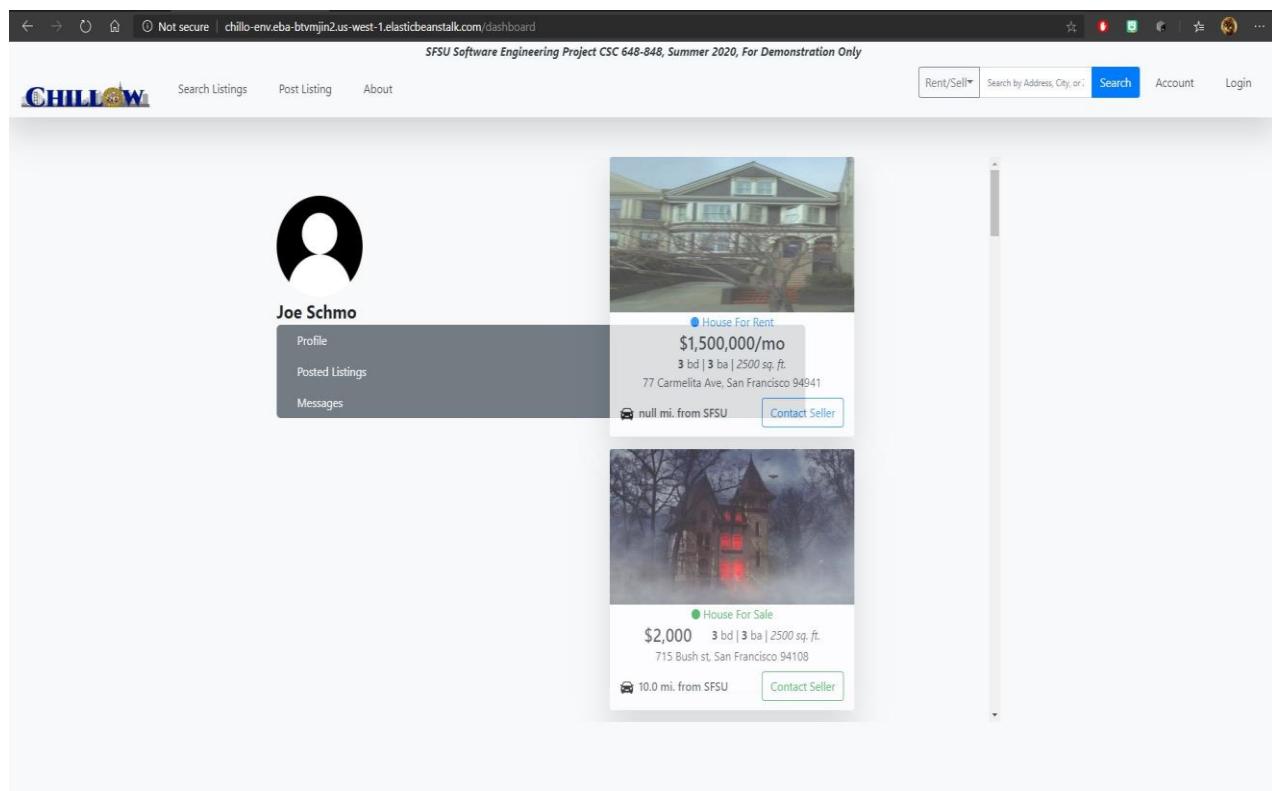


This is the log in page

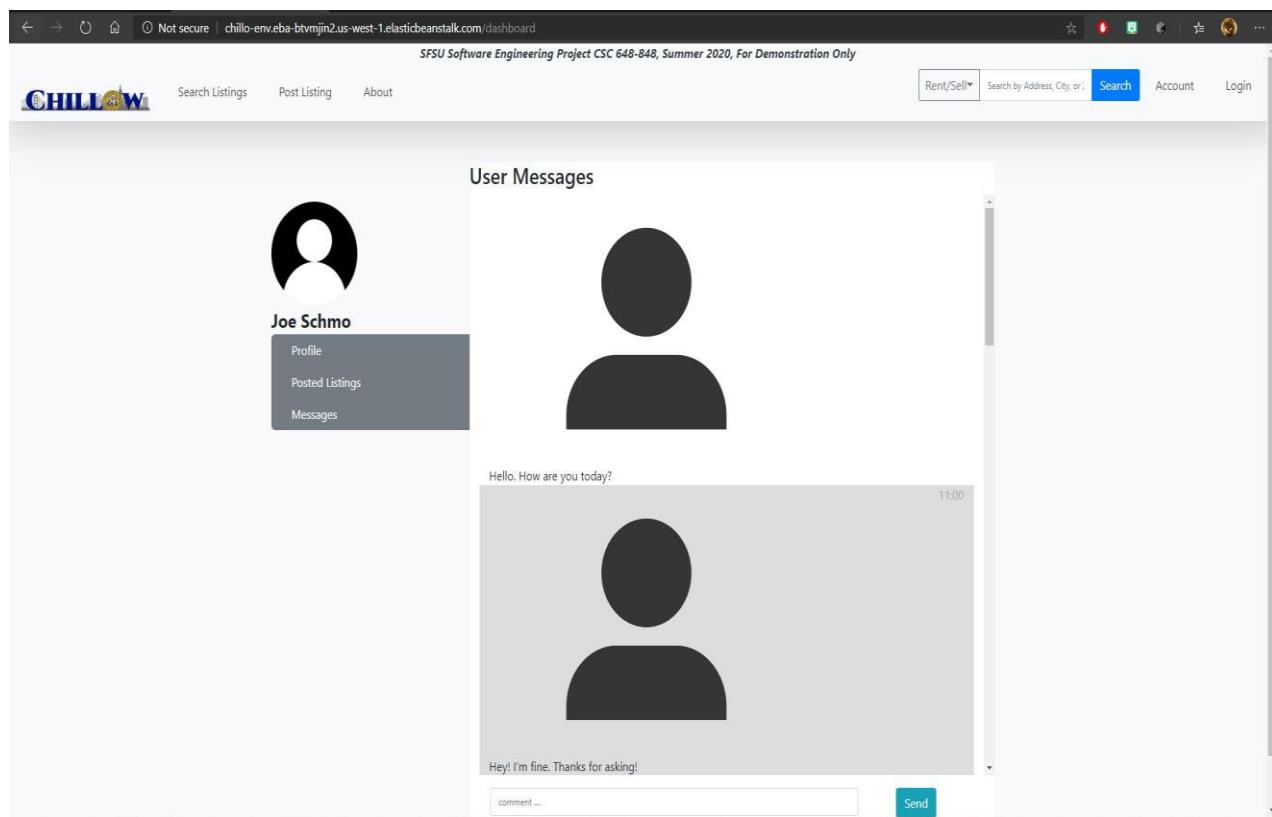
The screenshot shows a web browser window with the following details:

- Address Bar:** Not secure | chillo-env.eba-btvmjn2.us-west-1.elasticbeanstalk.com/dashboard
- Title Bar:** SFSU Software Engineering Project CSC 648-848, Summer 2020, For Demonstration Only
- Header:** Search Listings, Post Listing, About, Rent/Sell, Search, Account, Login
- Left Sidebar (User Profile):**
 - Profile picture placeholder.
 - Joe Schmo** (highlighted in grey)
 - Profile
 - Posted Listings
 - Messages
- User Info Section:**
 - Profile**
 - Name: Joe Schmo
 - Date of Birth: 12/31/2000
 - Gender: Superposition
 - Country of Residence: United States
 - Time Zone: (UTC-7:00)America/Los Angeles
 - E-mail Address (input field)

This is the view of the user dashboard.



The user dashboard view of posted listings.



The messaging system within the user dashboard.

← → ⌂ Not secure | chillo-env.eba-btvmjn2.us-west-1.elasticbeanstalk.com/listings

SFSU Software Engineering Project CSC 648-848, Summer 2020, For Demonstration Only

CHILLO Search Listings Post Listing About Rent/Sell Search by Address, City, or... Search Account Login

Search Address, City or Zipcode More Sale/Rent 1+ bd / 1+ ba Min Price: Any Max Price: Any Home Type

Image	Type	Price	Beds	Baths	Address	Distance from SFSU	Contact Seller
	House For Rent	\$3,000/mo	3 bd	3 ba	1529 Fillmore St, San Francisco 94115	7.2 mi. from SFSU	<input type="button" value="Contact Seller"/>
	House For Rent	\$4,000/mo	3 bd	3 ba	2889 Mission st, San Francisco 94110	5.6 mi. from SFSU	<input type="button" value="Contact Seller"/>
	Condo For Rent	\$200/mo	3 bd	3 ba	199 Gough st, San Francisco 94102	9.1 mi. from SFSU	<input type="button" value="Contact Seller"/>
	House For Rent	\$7,000/mo	3 bd	3 ba	600 The Embarcadero, San Francisco 94107	9.4 mi. from SFSU	<input type="button" value="Contact Seller"/>

Map Satellite

This is the search listings page view

← → ⌂ Not secure | chillo-env.eba-btvmjn2.us-west-1.elasticbeanstalk.com/listings

SFSU Software Engineering Project CSC 648-848, Summer 2020, For Demonstration Only

CHILLOW Search Listings Post Listing About Rent/Sell Search by Address, City, or... Search Account Login

The screenshot shows a web browser displaying a real estate listing. The top navigation bar includes links for 'Search Listings', 'Post Listing', 'About', 'Rent/Sell', 'Search by Address, City, or...', 'Search', 'Account', and 'Login'. The main content area features a large image of a modern, A-frame wooden house with a glass door and a small porch. To the left of the main image are two smaller thumbnail images of other houses. On the right side, there is a 'Contact Seller' button and a detailed listing table. The listing table includes the following information:

House For Rent	
\$4,000	3 bd 3 ba 2500 sq. ft.
2889 Mission st, San Francisco 94110	
5.6 mi. from SFSU	
Parking Spots	1
Pets	1
Description	tiny church model
Location/Views	
Amenities Included	

Below the listing is a map of the San Francisco Bay Area, showing the location of the property relative to SFSU and surrounding neighborhoods like Emeryville, Oakland, and Alameda. The map includes zoom controls and a legend.

This is the listings pop up to view more details about any listing.

← → ⌂ ⌂ Not secure | chillo-env.eba-btvmjn2.us-west-1.elasticbeanstalk.com/listings

SFSU Software Engineering Project CSC 648-848, Summer 2020, For Demonstration Only

CHILLOW Search Listings Post Listing About Rent/Sell Search by Address, City, or... Search Account Login

Search Address, City or Zipcode More▼ Sale/Rent▼ 1+ bd /

Contact Listing
1529 Fillmore St, San Francisco 94115

Send a message to the owner of this Listing, and we'll create a new Message Board where you can communicate directly. Find any new and previous messages in your Account section.

Message
Start a conversation with the Listing Owner.

Send Message Request

By submitting this Message Request you agree to Chillo's Terms of Use & Privacy Policy. Chillo is not responsible for any personal inquiries between the Landlord and Renter. Chillo is only responsible for protecting the identify and information between the two parties. Message/data rates may apply.

Map data ©2020 Google. Terms of Use

House For Rent
\$3,000/mo 3 bd | 3 ba | 2500 sq. ft.
1529 Fillmore St, San Francisco 94115
7.2 mi. from SFSU

House For Rent
\$4,000/mo 3 bd | 3 ba | 2500 sq. ft.
2889 Mission st, San Francisco 94110
5.6 mi. from SFSU

Condo For Rent
\$200/mo 3 bd | 3 ba | 2500 sq. ft.
199 Gough st, San Francisco 94102
9.1 mi. from SFSU

House For Rent
\$7,000/mo 3 bd | 3 ba | 2500 sq. ft.
600 The Embarcadero, San Francisco 94107
9.4 mi. from SFSU

Google

This is the contact seller pop up.

Database Organization

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

uid	first_name	last_name	email	password	sfsu_verified	permission	createdAt
6	Frank	Castle	frankcastle@sfsu.edu	\$2b\$10\$CHduNp3K.w2DiQIKNu9UBu7mBcceF...	1	1	2020-08-07
7	test	test	tester@mail.sfsu.edu	\$2b\$10\$hpLBnxrIMApERH0WPQoNeApIQe7t...	1	1	2020-08-07
8	Randy	Moss	randymoss@mail.sfsu.edu	\$2b\$10\$NyuaLbvqkEtsfavBSHgGZz81O.Zjgj...	1	1	2020-08-07
9	Frank2	Castle2	punisher@mail.sfsu.edu	\$2b\$10\$esJ2TYBmKGX6UDIhooYkuuW0h1v...	1	1	2020-08-07
10	Joe	Shmuckatelli	joe@sfsu.edu	\$2b\$10\$3Q7/5W5tyKld84mlBqnPuchVYjmPU...	1	1	2020-08-07
11	Joe	Schmo	SierraBravo@gmail.com	\$2b\$10\$JTwpc6IL26aQAsasFvg9emtYoseBqf...	0	1	2020-08-07
12	Sean	Ellis	scellia13@gmail.com	\$2b\$10\$2W/KiIm201VXXeUeX3Q3XOE9Cdy...	0	1	2020-08-07
13	karan	gurung	caran4@gmail.com	\$2b\$10\$W23eUYg4Jda7Lf7UgXQ60mPZW0...	0	1	2020-08-07
HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL

Object Info Session

Table: photos

Columns:

idphotos	int(11) AI PK
uid	int(11)
image_url	varchar(200)
listing_id	int(11)
main_photo	int(11)
createdAt	datetime
updatedAt	datetime

Action Output

Time	Action	Response	Duration / Fetch Time
14:26:26	SELECT * FROM chillo_db.listings LIMIT 0, 1000	16 row(s) returned	0.019 sec / 0.000054...
14:28:10	SELECT * FROM chillo_db.photos LIMIT 0, 1000	25 row(s) returned	0.017 sec / 0.000021...
14:28:22	SELECT * FROM chillo_db.users LIMIT 0, 1000	8 row(s) returned	0.023 sec / 0.000018...

Query Completed

Here's the view of our photos in the database.

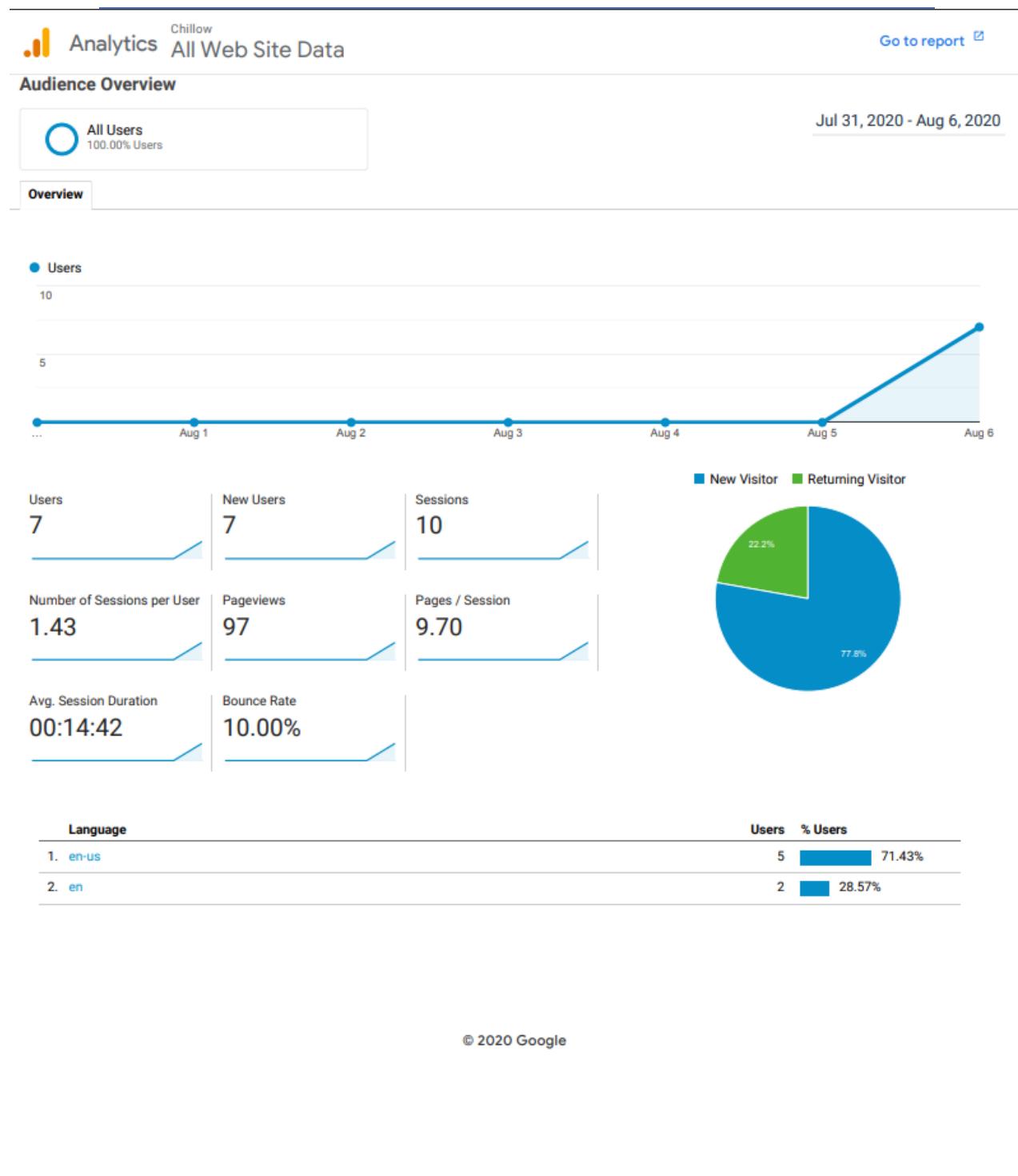
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

This view shows the listings held within our database.

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

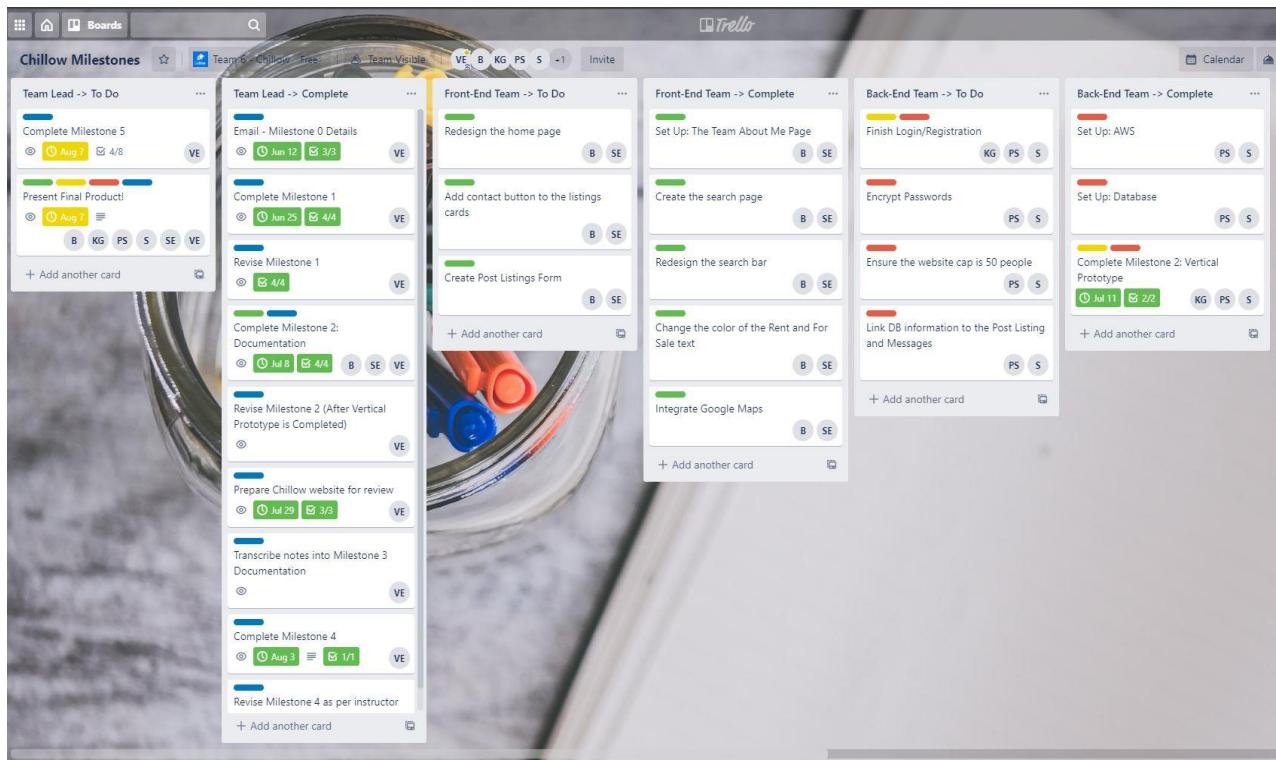
Here are the photos routed through AWS S3 and the information stored within our database

Google Analytics

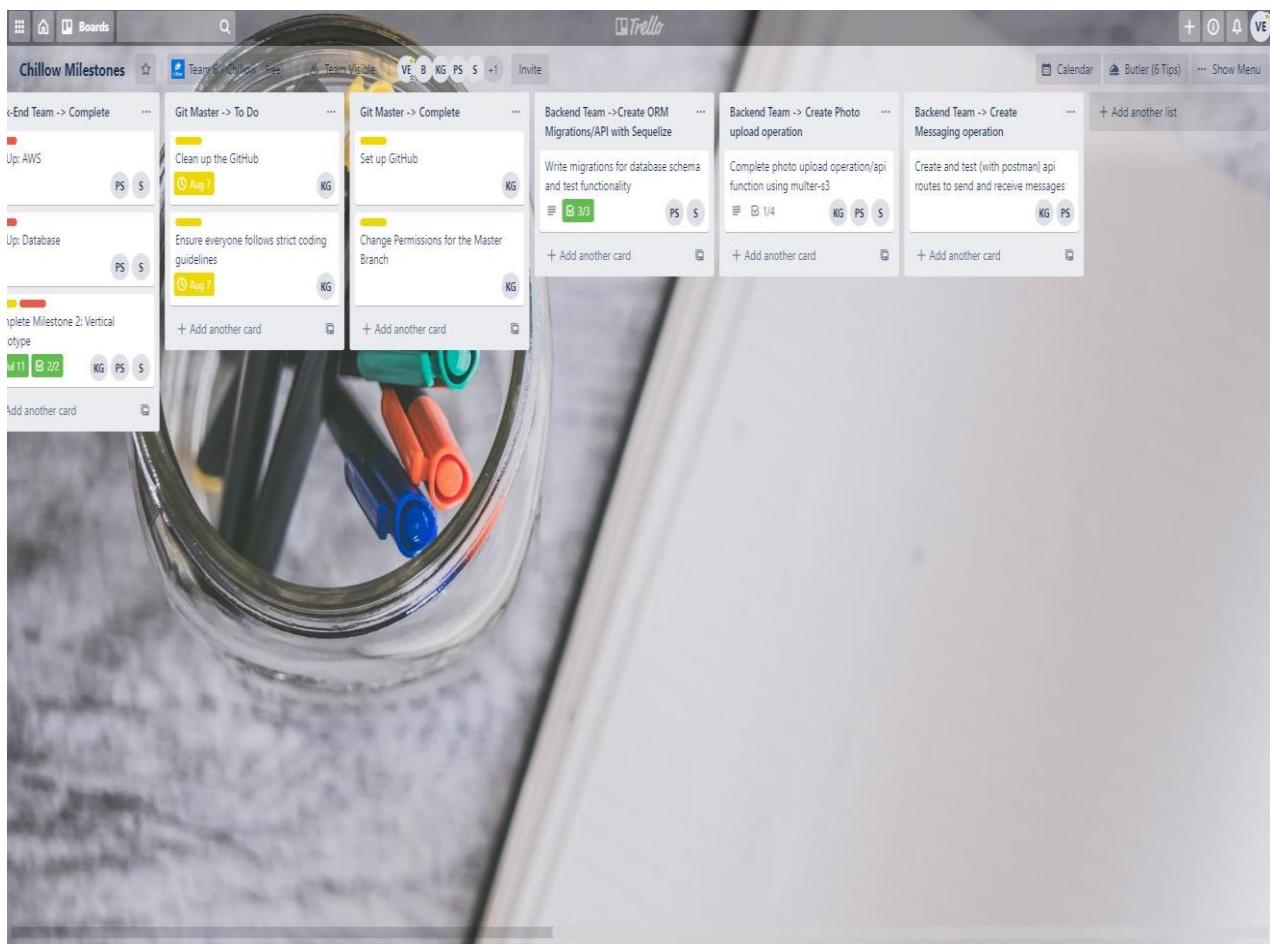


Audience overview of our site through Google Analytics.

Project Management



The first page of the team Trello. Tasks are assigned by Team and color coordinated for simplicity to find task assignments.



Second half of the team Trello. Git Master and some of the early tasks.

Team Member Self-Assessment and Contributions

From: Salah Najeeb Ali <Sali8@mail.sfsu.edu>

Sent: Friday, August 7, 2020 8:51 PM

To: Daniel Belmeur <belmeurrr@gmail.com>; Valdemar Puente-Gonzalez

<vpuentegonzalez@mail.sfsu.edu>

Cc: Daniel Scott Belmeur <dbelmeur@mail.sfsu.edu>; Phillip Anthony Smith <psmith4@mail.sfsu.edu>;

Karan Gurung <kgurung1@mail.sfsu.edu>; Salah Najeeb Ali <sali8@mail.sfsu.edu>

Subject: RE: Self Assessment and Contributions

In this team, my role was backend developer. I have contributed to this team by helping create routes for login and registration. Also, I helped with documentation and managing databases.

My number of commits to the GitHub branch is 5.

The main challenges that I have faced during this project was time management because it was very hard for me to manage my time out of the class and meet with my teammates. As well as, communicating and working together throughout zoom because it was my first time doing it and it was a little bit harder for me. One of the main challenges I faced was to keep contributing and manage my time after a sad family crisis.

One main thing I would like to do better with the things I learned from this project is to organize and try to manage my time. Also, try to contribute and learn more. This group is likely the most hardworking and energetic group that I have ever worked with. I hope in the future that I will have the opportunity to work with this group again. I really appreciate all the hard work of this team is done. From the bottom of my heart I wish all my team members best of luck and hope they have a bright future.

Salah Ali

From: Karan Gurung <kgurung1@mail.sfsu.edu>

Sent: Friday, August 7, 2020 10:02 AM

To: Daniel Belmeur <belmeurrr@gmail.com>; Valdemar Puente-Gonzalez

<vpuentegonzalez@mail.sfsu.edu>

Cc: Daniel Scott Belmeur <dbelmeur@mail.sfsu.edu>; Phillip Anthony Smith <psmith4@mail.sfsu.edu>;

Karan Gurung <kgurung1@mail.sfsu.edu>; Salah Najeeb Ali <sali8@mail.sfsu.edu>

Subject: RE: Self Assessment and Contributions

In team chillow, I was assigned a role of git master to manage and organize the git repository. My role was to thoroughly check the github commits made by backend and frontend team. If changes be required, I would let the team members know about it and make appropriate changes. Admin role in our git repository was assigned to me and the leader. We would review the merge pull request and make comments before accepting it. Multiple branches were created as per the need

and before pushing to the master, testing and debugging was done in other secondary branches and then merged to the submaster. If everything was fine and running, it would be merged in master branch with approval of all teammates. This way master branch was protected from having any conflict issues. I also helped backend team to set up message model, thanks to the help provided by backend lead Philip as he explained me in detail about all the requirements.

My number of commits in development branch is 14.

The challenge I would say is time management as well. When you have a lot of time, then you tend to do nothing. This way the habit of procrastinating built up and I kept piling up the work to finish just before the due date. In future projects, I would not want to keep things to do at last moment.

One main thing, I would like to do better with the things I learned from this project is to be more proactive in organizing things so that it would not slow down the actual project. I would also like to have more active role in future projects, so that I could contribute and learn more. This team is probably the most hardworking and passionate team that I have ever been part of. All my best wishes and regards to my fellow teammates for their future endeavors.

From: Sean Ellis <sellis4@mail.sfsu.edu>
Sent: Friday, August 7, 2020 3:56 AM
To: Daniel Belmeur <belmeurrr@gmail.com>; Valdemar Puente-Gonzalez <vpuentegonzalez@mail.sfsu.edu>
Cc: Daniel Scott Belmeur <dbelmeur@mail.sfsu.edu>; Phillip Anthony Smith <psmith4@mail.sfsu.edu>; Karan Gurung <kgurung1@mail.sfsu.edu>; Salah Najeeb Ali <sali8@mail.sfsu.edu>
Subject: RE: Self Assessment and Contributions

This project was very fun and challenging! I wish I could have contributed more to helping Valdemar with the planning and organization process to better understand deadlines. However, my main contributions were all Front-End Development. The main areas I focused on were element positioning, color schemes, layout designs and form creation. My main focus area ended up being the 'Listing' Page where the Search Results were displayed. I also enjoyed creating pop-up overlays such as the 'Contact Seller' pop-up, and the Post Listing pop-up. Other than those things, I helped create the Sequelize query code to successfully pull and retrieve data from the database (I didn't have anything to do with setting up and creating Sequelize for the team, just using it).

My number of commits to the development branch was 71.

The main challenges that I experienced on this project was not properly communicating with my Team Leads on which branches to use, and when to create a sub-branch for a new portion of the website. I could have done way better asking my GitMaster and Leaders to make sure I am operating in the proper branch before creating all my code. There were a few times where we could have minimized merge conflicts if I didn't have code changed in many different files. Any challenge for me was not understanding some of the other Back-End implementation that pertains to what I was working on in the Front-End. I felt bad because I didn't want to slow down the Back-End Team's progress by making them sit there and give me a full tutorial on what they were doing.

Lastly, when I go through a similar situation in the future, I want to have a longer and more efficient planning stage process. This will allow me to better understand everyone's responsibilities and priorities. I feel like we all had a great understanding on how to communicate and handle our Chain of Command, but I should have been more involved and paying attention to the planning stage. I appreciate all the hard work that this team has done and they definitely have set me up for success for my future projects!

Sean Ellis, Front-End Developer

From: [Daniel Belmeur](#)

Sent: Friday, August 7, 2020 3:07 AM

To: [Valdemar Puente-Gonzalez](#)

Cc: [Daniel Scott Belmeur](#); [Phillip Anthony Smith](#); [Sean Ellis](#); [Karan Gurung](#); [Salah Najeeb Ali](#)

Subject: Re: Self Assessment and Contributions

Contributions

- search/home page
- navbar functionality
- dashboard
- user message screen
- refactoring of duplicate code
- coordination of frontend team

I have contributed 84 commits to the development branch at the time of writing this email

Im sure my answer will be similar to everybody elses, this year has been an outlier to say the least and shelter in place and Covid have given classes an extra bit of stress and difficulty to it. Having my work schedule change around from my normal routine and keeping myself in check with my spare time while being constrained to my home. I feel very lucky having taken this class with the group that i got to work with as I feel like everybody was able to bring their own contributions into the equation making the development process more bearable with the situation we were all dealt with.

The main thing that i believe i could have made a big improvement on was spreading the work time wise. I would go through days of lots of work and then take some days off which worked for a little while but began to burn myself out which in turn probably made my output less than desirable towards the end of the project, i was very lucky to have a talented team to support each other and help in any teachable moments. I hope in the future the opportunity comes up where I am able to work with this team again.

Daniel Belmeur

From: Phillip Anthony Smith <psmith4@mail.sfsu.edu>
Sent: Friday, August 6, 2020 11:04 AM
To: Daniel Belmeur <belmeurrr@gmail.com>; Valdemar Puente-Gonzalez <vpuentegonzalez@mail.sfsu.edu>
Cc: Daniel Scott Belmeur <dbelmeur@mail.sfsu.edu>; Phillip Anthony Smith <psmith4@mail.sfsu.edu>; Karan Gurung <kgurung1@mail.sfsu.edu>; Salah Najeeb Ali <sali8@mail.sfsu.edu>
Subject: RE: Self Assessment and Contributions

As the backend team lead, I have contributed several functional and structural pieces of the project. I built and configured the AWS hosting server, the AWS relational database hosting service, and created a code pipeline the automatically builds and launches our code when the master branch is updated through GitHub actions. I have also designed and built the API for CRUD operations with our database to deliver data to our front end as well as the authentication system and data upload functionality with my backend group members. I have also been available for the whole team to troubleshoot many issues we've come across and have taken on extra work where possible.

My total contributions to the development branch are 42 (submaster branch).

One of the challenges with this project has been the shortened time to complete the project which has increased the urgency and stress of work. This added to the current quarantine conditions has made it difficult to focus on development. I have not had much opportunity to get outside and decompress from schoolwork. That being said, being on this team with the cohesiveness and fun we have has made it much easier to complete work.

If I could do one thing better, I think I would try and create more concise planning for features we want to implement and adhere to them a bit more strictly in terms of foundation features versus ones that are build on top of those foundations. For example, preemptively building our simple CRUD functions in the API first before adding complex uses for them. This would be more efficient than building functions on a rushed basis where they can be built ineffectively.

On Wed, Aug 5, 2020 at 12:06 AM Valdemar Puente-Gonzalez <vpuentegonzalez@mail.sfsu.edu> wrote:
Hello Team 6 (Chillow),

I know that we are at the final hour and the end is in sight. It has been a true honor to have everyone of you on this team. Everyone of you has played an amazing role and has grown with experience. Seeing the work that everyone has done brings me confidence that you will do well in the real world. Allow me to give you all a formal thank you. I couldn't have done this without you.

Below I have outlined a self assessment questionnaire. Please fill it out in the email and reply all so that all the team members can see your contributions.

- a. Your contributions to the team project and teamwork (technical and any other) in no more than half a page – list item format is OK.
- b. Number of submissions you've made to the GitHub team Dev. Branch
- c. One brief paragraph on main challenges he/she encountered in team project
- d. One brief paragraph on what would he/she do better next time based on what was learned in the class about SE management and processes

The length for the above should be $\frac{3}{4}$ of a page max for each of you.

Allow me to go first.

Thinks that I have contributed to the team is being the team leader. But being the team leader is more than that, it involves me motivating and pushing the team to accomplish the tasks at hand. I have also contributed heavily to all the documentation while keeping myself open to code when necessary. All I ask is that you assign me the task you need help with, and I will complete it. This is something I will continue to do until this project is complete. Another part is being the mediator between the professor and yourself. As well as relaying messages between you, the professor, and other teams.

My number of commits to the development branch has been 11.

One of my main challenges for this project has been time management. Shelter in place has made it so that everything is centralized to our homes. That of course means you get all the distractions of the home. In our project I found it difficult at times to manage this team, the team I was assigned to be the lead of in another class, and finally mentoring computer science minor. I felt as though I was stretching myself thin this summer session, but I always prioritized this team first. I made a commitment to lead this team to create something amazing. So, to try and regain time I would sacrifice sleep not only to keep up with everything you as a team have done but so I could be ready to help at a moments notice.

If I could do something better the next time based on what I have learned I would manage the direction a lot better. I felt that I gave good direction when I handed out tasks and asked for group consensus. But then I also felt that when the time of delivery came, I fell short in another direction. The project and the work we did was amazing but often the constructive reviews made it feel as though I made the team do

unnecessary work that had to get scrapped. So, for the next time I will ask for more clarity and guidance when creating a project of this scale or greater.

Valdemar, Team Lead