



# **SW Engineering CSC648/848 Fall 2021**

RUMI

Section 02 Team 01

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## **Milestone 5**

(December 7, 2021)

<https://18.190.48.206>



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## 1 Product Summary

According to an ACS Data study, the city of San Francisco is home to the highest percentage of 18-39 year olds living with roommates. At 28%, the number of young adults living with roommates in the San Francisco Bay Area exceeds that of any other city in the United States. Previously, searching for an apartment to rent or finding a compatible roommate would take countless hours browsing social media housing groups and unorganized forms online. The city of San Francisco and the larger surrounding Bay Area has long called for a reliable solution.

This is why our team has built RUMI - the new age digital housing solution providing a seamless transition into life in the Bay Area. RUMI is a web-based application helping students and young professionals alike find rooms and rent apartments around the San Francisco Bay Area. With RUMI, roommates no longer need to copy/paste their listing specifications countless times in online groups, discussion forums, and insecure sites online. With RUMI, users can enjoy a uniquely designed experience, while making use of plenty of useful features on the platform such as the following:

### → Features:

#### 1. Guest Users

- 1.1. A guest user shall be able to see the available rooms and roommates on the website.
- 1.2. A guest user shall be able to search any room and roommate available on the website.
- 1.3. A guest user shall be able to view other users' profiles.
- 1.4. A guest user shall be able to sign up and make a new account.

#### 2. Account

- 2.1. A guest user shall be able to make a new account.
- 2.2. An account shall have a unique id for each user.
- 2.3. An account shall require a username, which must pass the conditions of starting with a character (a-z or A-Z) and having the length of at least 3 characters.
- 2.4. An account shall require a valid email.
- 2.5. An account shall require a password, which must pass the conditions of having the length be at least 8 characters long and

must contain at least 1 upper case letter and 1 number and 1 of the following special character ( / \* - + ! @ # \$ ^ & ).

- 2.6. An account shall require the age of the user.
- 2.7. An account registration shall require the user to accept the Terms of Service and Privacy Rules of the website.

### **3. Registered User**

- 3.1. A registered user shall be able to login to the website.
- 3.2. A registered user shall be able to see the available rooms and roommates on the website.
- 3.3. A registered user shall be able to search any room and roommate available on the website.
- 3.4. A registered user shall be able to create posts.
- 3.5. A registered user shall be able to delete their posted post.
- 3.6. A registered user shall be able to comment on the posts by other users.
- 3.7. A registered user shall be able to update their profile.
- 3.8. A registered user shall be able to see other users' profiles.
- 3.9. A registered user shall be able to share a room to various social media platforms.
- 3.10. A registered user shall be able to save any room, which later can be seen in their profile dashboard.
- 3.11. A registered user shall be able to set a preferred search for finding a room (location, price, amenities etc) and roommates (majors, school, smoker?, pets?, language, same interest, hobbies etc).
- 3.12. A registered user shall be able to see suggested posts.
- 3.13. A registered user shall be able to receive notifications from the admin.

### **4. Profile**

- 4.1. All registered users shall have a profile.
- 4.2. A profile shall contain an about me and information about the user it belongs to.
- 4.3. A profile shall contain a profile picture of the user.
- 4.4. A profile shall contain all the posts posted by the user.
- 4.5. A profile shall contain all the comments posted by the user.

- 
- 4.6. A logged in profile shall contain all the favorited posts saved by the user.
  - 4.7. A profile can be edited by the relevant user.

## 5. Posts

- 5.1. A Post shall be posted only by a registered user.
- 5.2. A Post shall be posted by a user looking for a room.
- 5.3. A Post shall be posted by a user who wants to rent a room.
- 5.4. A Post shall contain a photo, a caption or a description.
- 5.5. A post shall have a post creation date.
- 5.6. A post shall have a location map for reference.
- 5.7. A post shall be deleted by the user who posted it.

## 6. Comments

- 6.1. Comments shall be posted by registered users on posts.
- 6.2. Comments shall contain a comment made on the post and the name of the user who made the comment.
- 6.3. Comments shall have a creation date.
- 6.4. Comments shall be deleted by the user who posted it in their respective profile dashboard.

## 7. Chat

- 7.1. Messages shall be sent from a registered user to another registered user.
- 7.2. Messages shall be replied to.

## 8. Search

- 8.1. Guest users shall be able to search any post on the website
- 8.2. Registered users shall be able to search any post on the website.
- 8.3. Search shall be filtered to suit the preferability of the user who is searching.
- 8.4. Search shall update the contents of the website as the search terms are entered.

## 9. Admin User

- 9.1. An admin shall remove any users from the website.
- 9.2. An admin shall be able to delete posts.
- 9.3. An admin shall be able to delete comments.
- 9.4. An admin shall be able to send a notification to all users.

→ Live: <https://18.190.48.206>

## 2 Milestone Documents

→ Milestone 1 Document

- ◆ Link to [M1](#)
- ◆ Feedback:

 Henry Villar <jvillar@mail.sfsu.edu> Sep 25, 2021, 8:56 PM ☆ ↶ ⋮

to Alex, knakulan2001@gmail.com, yueyue0401@gmail.com, anmol145@gmail.com, hthoch189@gmail.com, josh.miranda2018@gmail.com, me ▾

**T1 M1 Feedback**

**CEO/CTO Feedback**  
The executive summary looks great, nicely put to bring investors. We like the very thoughtful list of use cases. That will bring confidence to our customer. Well done. Not sure why the high-level architecture was not included, but please add it as soon as you can. In general, nice job putting together this document. Please contact us if any further question.

**Instructor Feedback**  
Overall Objective of Milestone 1 [Need improvement, On-track, Above Expectations]: **On track** with missing architecture and some improvement needed

ID	Item	Criteria	Feedback
01	Expected size of this document	About 7-10 pages	Good (13).
02	Title Page	Format and Structure <ul style="list-style-type: none"> <li>• SW Engineering CSC648/848 Fall 2021”</li> <li>• Section Number</li> <li>• Team number</li> <li>• Names of students and roles</li> <li>• M1</li> <li>• History table (revision)</li> </ul>	Good.
03	Executive Summary	~1 page. Whv we should fund this project?	GREAT. Great data points to highlight the need of this application. Just to clarify, when you mention 150,000 as the addressable market, are you referring to users or thousands of dollars? In business the market is measured in \$\$\$.



04	Personas and main Use Cases	About 1/3 of a page per persona 4-5 <u>main use cases</u> . Descriptive title and number to each use case	Good. Pretty good understanding of your personas and use cases.  Chad (transfer student) Melanie (graduate student) Axel (international student) John (professional)  • Student looking for a room • Student looking for another student to share a room with • Networking • Professional looking to share rent
05	List of main data items and entities	Name, meaning, usage, etc.	Good initial data items identification. You will need to add <u>data type</u> for each item (string, integer, etc.) in future milestone
06	Initial list of functional requirements	High level functions you plan to develop	Great. 48 requirements. Big list that you would need to prioritize in M2. In general a great thoughtful list to start with.
07	List of non-functional requirements	Performance, expected load, security requirements, storage, availability, fault tolerance	Good. 28 total. <u>It seems that all are new and the 14, presented in the project documentation are missing. You need to considered all of them besides your 28 new ones.</u>
08	Competitive analysis	3-4 competitive products	Good. <u>You should add references to your sources.</u>
09	High-level system architecture and technologies used	Itemized list of all main SW components	The <u>HL architecture</u> is missing.
10	Team and roles	List student names	Good
11	Checklist	Answers to the items	Good

**Next Steps:** Understand the feedback, talk to your team and decide what needs to be added to M1 and then freeze the document and move to work on M2.

~Prof. Villar

## → Milestone 2 Document

- ◆ Link to [M2](#)
- ◆ Feedback:

Henry Villar <hvillar@mail.sfsu.edu>  
to Jasmine, Cheng-Yu, nkarthikyan@mail.sfsu.edu, Joshua, annmrburmy145@mail.sfsu.edu, me <

**T1 M2 & VP Feedback**

CEO/CTO Feedback  
Good job in the documentation and all the details regarding prioritizing and documenting the design of your user interface, it looks good, great effort. Regarding the VP, we were expecting a more 'ready' prototype, and it seems that at this point **this team is getting behind** of what is needed for the product to have as expected features and capabilities. Make sure you work on your implementation to catch up.

Instructor Feedback  
Overall Objective of Milestone 2 [Need Improvement, On Track, Above Expectations]: Doc On track, VP is behind....

Specific Feedback:

ID	Criteria	Feedback
00	Expected size of this document	About 20-25 pages 34 pages
01	Functional Requirements - prioritized	Expand or repeat functional requirements from milestone 1 into Milestone 2 with reference numbers (1 - must have, 2 - desired, 3 - opportunity). <b>On Track.</b> Good. Design for user priority. I like 8 categories, and in total 43. They are a lot... Good for this milestone. Eventually this will need to be re-prioritize since all the P1 are implemented.
02	UI Mockups and Storyboards (high level only)	All major use cases from M1. Format is very flexible, good. Good designs. Make sure the titles and variable names are in easy to understand English and consistent with data definitions. Media storage, API's if any, algorithm and SW tools.
03	High level Architecture, Database Organization	<b>On Track.</b> Good.
04	High Level UML Diagrams	<b>On Track.</b> Class diagrams, and Component and deployment.
05	Key risks for your project at this time	<b>On Track.</b> Good job identifying the risks and describing solutions that you are implementing. Try for these risks not to become issues.
06	Project management	No more than half a page, how many tasks transition from M2 to M3 and future tasks. Must start using Trello or similar tools for task management. <b>On Track.</b> Good.
07	Vertical Prototype (VP)	Working prototype in production. Search capabilities [1] Text field and [2] filter/category use cases  <b>Text:</b> Timing is off, display and displaying. Not ready for the search button. <b>SEARCH button</b> <b>Filters:</b> No filters selected. Prototype not working, and not sure why Los Angeles is an option. Read the requirements (it is the SF Bay Area)

Next Steps: Review this feedback with your team, incorporate those critical items to your document and freeze it. Start working on your M3, besides the vertical prototype baseline functionality this Milestone is expected to have more requirements implemented.  
~Prof. Villar

## → Milestone 3 Document

- ◆ Link to [M3](#)
- ◆ Feedback:

### Team 1 M3 Feedback

Last week, we conducted a demo of our app. We need to implement messaging, comments on posts, and maps. We discussed how we needed to work on account functionalities and fixing issues with the post search when no items meet the filter criteria. Our biggest bug with accounts was cookies sending cookies from backend to the front end. To solve this we figured out that HTTPS was required to send cookies to a different url since our product runs using 2 urls; therefore, HTTP cannot be used for our app. We also discussed that when we try to filter posts and no results return and the application crashes. To solve this issue, we had to switch our data mapping protocol on the frontend from checking if data exists to working with the data provided by the backend.

## → Milestone 4 Document

- ◆ Link to [M4](#)
- ◆ Feedback:

 Henry Villar <jvillar@mail.sfsu.edu> Nov 14, 2021, 8:33 PM ☆ ↗ ⋮  
to Alex, Jasmine, yueyue0401@gmail.com, Cheng-Yu, Nakulan, Joshua, me, anmolburmy145@gmail.com ▾  
CSC648/848 M4 T1 Feedback

**CEO/CTO M4 Feedback**  
RUMI, you have demonstrated a great understanding of what the customer is looking for. Great progress and application. I am happy to see all the testing and QA plans. Please finalize details for the final demonstration and delivery.

**Instructor M4 Feedback**  
Overall Objective of Milestone 4 [Need improvement, On track, Above Expectations]: **On Track**

**Specific M4 Feedback:**

ID	Item	Criteria	Feedback
01	Objectives Achieved?	1. To make final commitment for functions to be delivered 2. To check that all required non-functional specs are satisfied or on track 3. To practice formal usability test plan development 4. To practice formal QA 5. To practice code review 6. Ensure basic practices of secure SE are applied 7. Ensure effective teamwork 8. Ensure software development is effective	<b>On Track.</b> Overall a good document.



			<b>On Track.</b>
02	Document delivered (PDF)	<p>1. Product summary (~1/2 p)</p> <p>2. Usability test plan (~2 p)</p> <p>3. QA test plan (~2 p)</p> <p>4. Code Review (~2 p)</p> <p>5. Self-check on best practices for security (~1/2 p)</p> <p>6. Self-check: Adherence to original Non-functional specs</p> <p>~7 pages</p>	<ul style="list-style-type: none"> <li>Good Summary. <b>44</b> itemized list, list of first priorities and <b>9</b> special functions</li> <li>Good selection and plan for the UT: <b>Post function</b>, good tasks and Likert Subjective Test.</li> <li><b>QA testing</b> focus is the SEARCH functionality, good decision selecting. The test plan table looks good.</li> <li><b>Code peer-Review</b> screenshots are okay, but not sure that the green comments were part of the review. <b>Findings needed to be better displayed and described</b> in this section.</li> <li>Good <b>security</b> approach.</li> <li>Most of the Non-functional Specifications should be done by now. 10 are done and 4 on-track. <b>Those On-Track status should add a comment about when they will be done or plans.</b></li> </ul>

**Next Steps for M4:** Review this feedback with your team, incorporate to your document and freeze it. Finalize all the functionality and integration, you are on track. Be ready for M5 and finish strong.  
~Prof. Villar

### 3 Product Screenshots

→ Home Page

SFSU Software Engineering Project CSC 648-848, Fall 2021. For Demonstration Only

Home      About       RUMI      Create      

Welcome Home.

Introducing a new way to find Rooms and Roommates around San Francisco Bay Area.

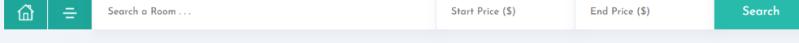
[Find a Room](#)      [Find a Roommate](#)

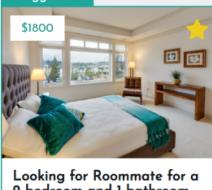
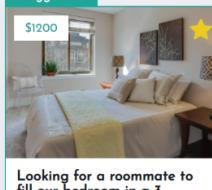
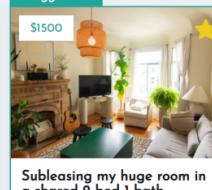
The screenshot shows a modern living room interior with a grey sofa, a wooden coffee table, and a framed beach scene painting on the wall. The RUMI app interface includes a navigation bar with 'Home' and 'About' links, a logo, and a 'Create' button. The main content area features a 'Welcome Home.' message and a description of the service. Below this are two prominent call-to-action buttons: 'Find a Room' and 'Find a Roommate'.

## → Room Listings

SFSU Software Engineering Project CSC 448-848, Fall 2021. For Demonstration Only

Home    About     Create    



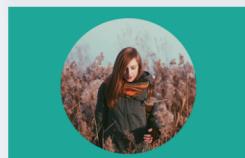
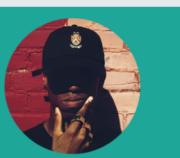
Suggested			
 \$1800 Looking for Roommate for a 2 bedroom and 1 bathroom... Apartment has great lighting, with skylights in kitchen and bathroom... Mon Dec 06 2021	 \$1200 Looking for a roommate to fill our bedroom in a 3... This room is the biggest one in the apartment with 2 windows that get... Mon Dec 06 2021	 \$1500 Subleasing my huge room in a shared 2 bed 1 bath... Shared washer & dryer and shared kitchen. Looking for a male tenant... Mon Dec 06 2021	 \$900 Invisible House Joshua Tree - Skyscraper with Pool Quite simply, Invisible House is the most spectacular house in Joshua... Sun Dec 05 2021
 \$1600 Looking for someone to share this 2 bedroom apartment... The apartment definitely has the old Victorian apartment charms, and... Mon Dec 06 2021	 \$900 One large furnished/unfurnished... Very safe. Professional weekly cleaning service. Prefer a female... Mon Dec 06 2021	 \$1800 Looking for Roommate for a 2 bedroom and 1 bathroom... Apartment has great lighting, with skylights in kitchen and bathroom... Mon Dec 06 2021	 \$1200 Looking for a roommate to fill our bedroom in a 3 bedroom... This room is the biggest one in the apartment with 2 windows that get... Mon Dec 06 2021
 \$2500 Bright large room with hard wood floors available... Terrific location, 6 minutes away from the BART station and access to... Mon Dec 06 2021	 \$1500 Subleasing my huge room in a shared 2 bed 1 bath... Shared washer & dryer and shared kitchen. Looking for a male tenant... Mon Dec 06 2021	 \$775 Room available in Oakland! The room available is a shared-bedroom. Large enough to fit two... Mon Dec 06 2021	 \$800 Room available only to females! I am Renting a room for one person only in my apartment. Amenities... Mon Dec 06 2021
 \$1050 Private room with shared bathroom. Large room with a beautiful view. Easy to commute, and friendly... Mon Dec 06 2021	 \$2500 Two Bed And Two Bath Apartment For Rent! Newly built 2 bedroom house in Daly City. Will be furnishing the home as... Mon Dec 06 2021	 \$900 Invisible House Joshua Tree - Skyscraper with Pool Quite simply, Invisible House is the most spectacular house in Joshua... Sun Dec 05 2021	 \$800 Glass cottage with Hot tub "Blár" Welcome to Glass cottages Iceland. We are located on a lava desert in... Sun Dec 05 2021
 \$1000 JTHAVN Joshua Tree Remote Desert Bubble Stargazing Unique desert bubble is located in a private 30 acres lot! 13 miles from... Sun Dec 05 2021			

## → Roommate Listings

SFSU Software Engineering Project CSC 648-848, Fall 2021. For Demonstration Only

Home    About     Create    

  Search a Roommate ... Select School Select Major 

 <b>Luke Terzza</b> Looking to sign a lease starting Jan 1st while I go to...  	 <b>Tedd Danilyak</b> I'm 24 year old single male looking for a room. Don't...  	 <b>Brendan Pirson</b> I'm a third year university student studying computer...  	 <b>Rosa Marlen</b> Hello! I am a new student at SJSU looking for an...  	 <b>Danny Macbane</b> Student at SFSU and I'm in my last semester. In need of...  
 <b>Tina Grangier</b> My girlfriend and I are looking for one or two roommates. I...  	 <b>Brad Feenan</b> Looking for male students who are looking for a room...  	 <b>Tonic Gley</b> Looking for a roommate who is responsible, fun, and easy...  	 <b>Allie Coughlin</b> Rooms available for female students only!  	 <b>Roy Kebbell</b> Looking for a cheap place to rent. Very easy to live with...  
 <b>Minnie Fancy</b> Finding a roommate to team up with who's easy going... 	 <b>Chelsey Bootheer</b> Looking for affordable room or apartment renting! I pay...  	 <b>Glenn Nell</b> I'm a working professional looking for a nice, clean and...  	 <b>admin</b> Feel free to contact if you have any questions about o...  	 <b>rumi2</b> I am normal user.  
 <b>rumi1</b> I am a normal user.  				

## → Room Details Page

SFSU Software Engineering Project CSC 646-848, Fall 2021, For Demonstration Only

Home    About     Create    



**@Brendan Pirson** Mon Dec 06 2021  
- Is this available?

**@Tonie Gley** Mon Dec 06 2021  
- is the furniture included?

Comment Here... ▶

**One large furnished/unfurnished bedroom in a 3 bedrooms flat first floor.**  
Very safe. Professional weekly cleaning service. prefer a female student, or a female with a job to share this flat with two other female students.

Starting from \$900

Posted by: Allie Coughlin  
Posted on: Mon Dec 06 2021



**Offer**



## → Roommate Details Page

SFSU Software Engineering Project CSC 648-848, Fall 2021. For Demonstration Only

Home    About     Create    



**Allie Coughlin**

Rooms available for female students only!

- Goes to [SJSU](#).
- Is a [Smoker](#).

[Contact](#)

---

Allie Coughlin's

[Posts](#) [Comments](#)

2 result found



**\$1600**

**Looking for someone to share this 2 bedroom apartment...**

The apartment definitely has the old Victorian apartment charms, and...

Mon Dec 06 2021



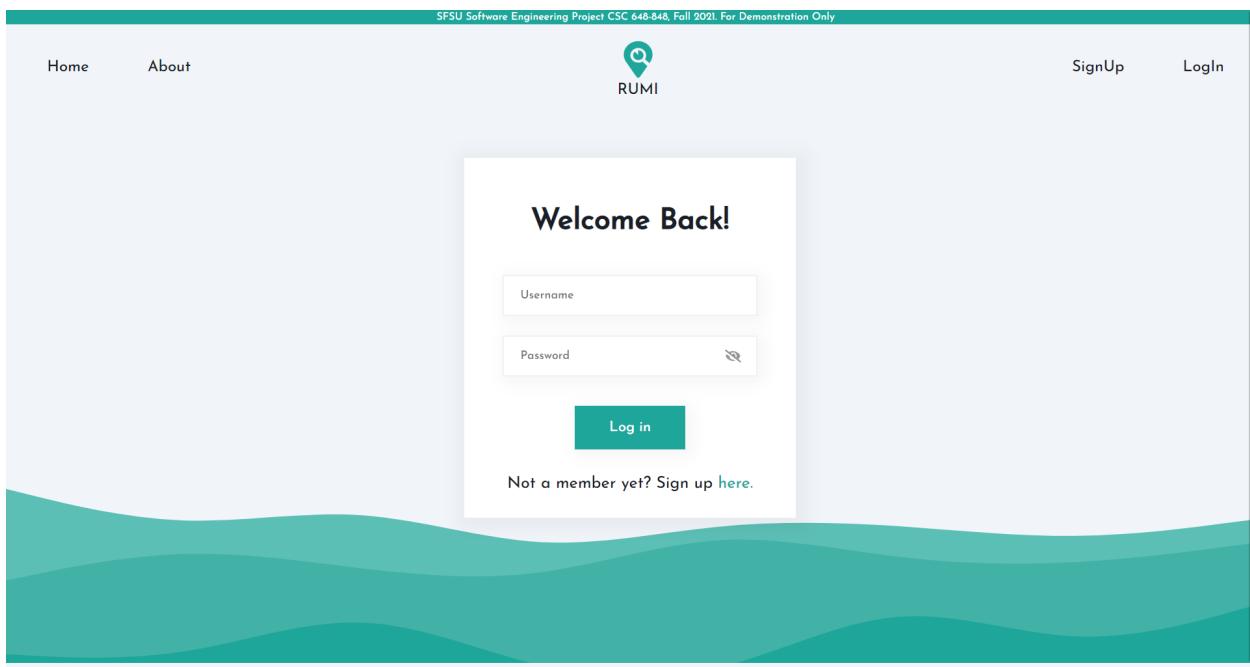
**\$900**

**One large furnished/unfurnished...**

Very safe. Professional weekly cleaning service. prefer a female...

Mon Dec 06 2021

→ Login Page



→ Registration Page

The screenshot shows the RUMI registration page. At the top, there is a navigation bar with links for Home, About, a logo for RUMI (a green circle with a white 'Q'), and buttons for SignUp and Login. Below the navigation bar is a large white form box with the title "Join Us!" in bold. The form contains four input fields: "Enter Your Username", "Enter Your Email", "Enter Password" (with a visibility toggle icon), and "Confirm Password" (with a visibility toggle icon). Below these fields is a checkbox followed by text: "I accept I am 13+ years of age and I have read and accept the [TOS](#) and [Privacy Rules](#)". A "Continue ▶" button is located below the checkbox. At the bottom of the form, there is a link: "Already have an account? Login [here](#)". The background of the page features a teal and white wavy pattern.

## → Create Post

SFSU Software Engineering Project CSC 646-848, Fall 2021. For Demonstration Only

Home    About     Create    

### Post

Enter a Caption

Enter a Description

Enter Price(\$)    Select a Location ▾

Upload Image

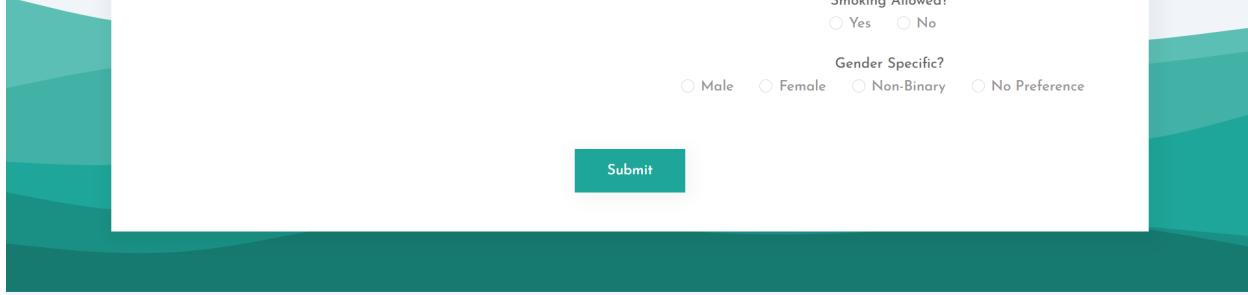
Parking Available?  
 Yes    No

Pets Allowed?  
 Yes    No

Smoking Allowed?  
 Yes    No

Gender Specific?  
 Male    Female    Non-Binary    No Preference

Submit



## → User Profile Dashboard

SFSU Software Engineering Project CSC 648-848, Fall 2021. For Demonstration Only

Home    About    Create 





Luke Terzza

Looking to sign a lease starting Jan 1st while I go to school and work part time. I have lived in Tahoe City, Ca for the past year and a half working in Real Estate and property management. I enjoy mountain biking, skiing, skateboarding, reading, and soccer.

- Goes to [SJSU](#).
- Has a [Pet](#).

[Edit Your Details](#)

Luke Terzza's

Posts    Comments    Favorites

0 result found

## → Chat

SFSU Software Engineering Project CSC 648-848, Fall 2021. For Demonstration Only

Home    About    Create 

 admin@rumi.com     rmarlenlv@weibo.com     rumi2@rumi.com     rumi3@gmail.com

 is the room available?

i can offer 1000 a month instead of 1200

Type your message.. 

## 4 Screenshots of Key DB Tables

→ User

Table Name: user

Charset/Collation: Default Charset Default Collation

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
id	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
username	CHAR(36)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
password	CHAR(36)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
last_name	CHAR(255)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
first_name	CHAR(255)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
email	CHAR(255)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
phone	VARCHAR(45)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
description	TEXT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
gender	CHAR(1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
birthday	DATETIME	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
school	CHAR(255)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
major	CHAR(255)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
smoker	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
pets	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
language	VARCHAR(255)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
interests	VARCHAR(255)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
hobbies	VARCHAR(255)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
created_date	DATETIME	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CURRENT_TIMESTAMP
deleted	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
deleted_date	DATETIME	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
admin	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
activated	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

id	username	password	last_name	first_name	email	phone	description	gender	birthday	school	major	smoker	pets	language	interests	hobbies	created_date	deleted	deleted_date	admin	activated
1	rumi1	password	NULL	NULL	rumi1@rumi...	NULL	I am a normal u...	N	NULL	SFSU	30	1	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
2	rumi2	password	NULL	NULL	rumi2@rumi...	NULL	I am normal user	F	NULL	SFSU	31	1	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
3	admin	password	NULL	NULL	admin@rumi...	NULL	Feel free to con...	NULL	2021-1...	SFSU	10	1	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
4	Glenn Nell	123451Q	NULL	NULL	gnell9@click...	NULL	I'm a working pr...	M	NULL	SJSU	11	0	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
5	Chelsey Bo...	123451Q	NULL	NULL	cboother7@1...	NULL	Looking for affo...	F	NULL	Harvard	16	0	0	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
6	Minnine Fancy	123451Q	NULL	NULL	mfnancy17@g...	NULL	Finding a room...	F	NULL	SFSU	13	0	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
7	Rob Salack	123451Q	NULL	NULL	rsalack22@o...	NULL	I'm moving to th...	F	NULL	SFSU	12	1	1	NULL	NULL	NULL	2021-12-06...	1	NULL	NULL	1
8	Roy Kebbell	123451Q	NULL	NULL	rkebbell29@...	NULL	Looking for a c...	M	NULL	Harvard	18	1	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
9	Allie Coughlin	123451Q	NULL	NULL	acoughlin2p...	NULL	Rooms availabl...	F	NULL	SJSU	9	1	0	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
10	Torrie Gley	123451Q	NULL	NULL	tgley2k@ge...	NULL	Looking for a ro...	N	NULL	SFSU	10	0	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
11	Brad Feenan	123451Q	NULL	NULL	bfeenan2f@...	NULL	Looking for mal...	M	NULL	SJSU	10	1	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
12	Tina Grangier	123451Q	NULL	NULL	tgrangier2l@...	NULL	My girlfriend an...	N	NULL	SFSU	12	1	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
13	Danny Mac...	123451Q	NULL	NULL	dmacbarne...	NULL	Student at SFS...	M	NULL	SFSU	17	1	0	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
14	Rosa Marlen	123451Q	NULL	NULL	rmarlen1v@...	NULL	Hello! I am a ne...	F	NULL	SJSU	16	0	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
15	Brendan Pir...	123451Q	NULL	NULL	bpinson1w@i...	NULL	I'm a third year...	M	NULL	Harvard	12	1	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
16	Tedd Danilayak	123451Q	NULL	NULL	tdanilayak21@...	NULL	I'm 24 year old...	M	NULL	Harvard	9	1	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
17	Luke Terzza	123451Q	NULL	NULL	lterzza2l@po...	NULL	Looking to sign...	M	NULL	SJSU	12	0	1	NULL	NULL	NULL	2021-12-06...	0	NULL	NULL	1
18	demo testing	123451Q	NULL	NULL	demo@test.c...	NULL	Hey there. I'm...	M	NULL	SJSU	10	0	1	NULL	NULL	NULL	2021-12-07...	1	NULL	NULL	1
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

in	activated	photo	thumbnail
1	NULL	NULL	NULL
1	NULL	NULL	NULL
1	NULL	NULL	NULL
1	da9ac5eb08f185cf7d790158a728b91105...	thumbnail-da9ac5eb08f185cf7d790158a7...	thumbnail-da9ac5eb08f185cf7d790158a7...
1	07ce815401a8d9c2f2f81b1906949ffe7c...	thumbnail-07ce815401a8d9c2f2f81b190...	thumbnail-07ce815401a8d9c2f2f81b190...
1	bbc9b14fb0765e79c9aa0a06f156d6156...	thumbnail-bbc9b14fb0765e79c9aa0a06f...	thumbnail-bbc9b14fb0765e79c9aa0a06f...
1	881fea12c5b0905fb1af3c3f7a3b4dbd4...	thumbnail-881fea12c5b0905fb1af3c3f7a...	thumbnail-881fea12c5b0905fb1af3c3f7a...
1	6187f6cb7ddd8f25aa679d40b44ac6415...	thumbnail-6187f6cb7ddd8f25aa679d40b...	thumbnail-6187f6cb7ddd8f25aa679d40b...
1	a2f0fb5e341c0dac9db5e25689c3fd42e1...	thumbnail-a2f0fb5e341c0dac9db5e2568...	thumbnail-a2f0fb5e341c0dac9db5e2568...
1	ff5e1eb41eb3c0dc0c5bf39e81e283b99e...	thumbnail-ff5e1eb41eb3c0dc0c5bf39e8...	thumbnail-ff5e1eb41eb3c0dc0c5bf39e8...
1	0e2358506695e43a8d1d88d36c04e8bc...	thumbnail-0e2358506695e43a8d1d88d...	thumbnail-0e2358506695e43a8d1d88d...
1	5f2452538b28ae3b81ea77ff0fa1b594a2...	thumbnail-5f2452538b28ae3b81ea77ff0...	thumbnail-5f2452538b28ae3b81ea77ff0...
1	b29aea8020538e27911fb3940584b924...	thumbnail-b29aea8020538e27911fb394...	thumbnail-b29aea8020538e27911fb394...
1	b7e669d48eae0d0ad747c251b2504dd...	thumbnail-b7e669d48eae0d0ad747c25...	thumbnail-b7e669d48eae0d0ad747c25...
1	35201586f271b225f24f3e1148c9f08d8...	thumbnail-35201586f271b225f24f3e11...	thumbnail-35201586f271b225f24f3e11...
1	f9b203b4c21184b34679a2d865a3fff9be...	thumbnail-f9b203b4c21184b34679a2d8...	thumbnail-f9b203b4c21184b34679a2d8...
1	5fc8651ed170c3f3c57ec1d1427a50a9...	thumbnail-5fc8651ed170c3f3c57ec1d14...	thumbnail-5fc8651ed170c3f3c57ec1d14...
1	811a3513758e25a3b9d531e0b7885ed1...	thumbnail-811a3513758e25a3b9d531e...	thumbnail-811a3513758e25a3b9d531e...
NULL	NULL	NULL	NULL

→ Post

## → Comment

	<b>id</b>	<b>text</b>	<b>post_id</b>	<b>creator_id</b>	<b>created_date</b>	<b>deleted</b>	<b>deleted_date</b>
▶	1	Nice View!	3	4	2021-12-06 17:43:05	0	NULL
	2	Is this still available?	4	5	2021-12-06 17:57:28	0	NULL
	3	Hil Is this available furnished?	6	12	2021-12-06 19:21:23	0	NULL
	4	Is this available?	12	15	2021-12-07 03:44:34	0	NULL
	5	really nice view!	11	15	2021-12-07 03:45:41	0	NULL
	6	Nice!	13	13	2021-12-07 03:46:50	0	NULL
	7	is this still available?	7	13	2021-12-07 03:47:08	0	NULL
	8	still available?	5	13	2021-12-07 03:47:22	0	NULL
	9	is the furniture included?	12	10	2021-12-07 03:50:13	0	NULL
	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## → Notification

Table Name: **notification**

Charset/Collation: Default Charset Default Collation

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
id	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
text	VARCHAR(2048)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
from	CHAR(255)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
from_id	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
to_id	INT	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
created_date	DATETIME	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	CURRENT_TIMESTAMP
deleted	BIT(1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL
deleted_date	DATETIME	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	NULL

	<b>id</b>	<b>text</b>	<b>from_id</b>	<b>to_id</b>	<b>post_id</b>	<b>unread</b>	<b>created_date</b>	<b>deleted</b>	<b>deleted_date</b>
▶	1	test	3	3	NULL	1	2021-12-06 07:06:00	0	NULL
	2	test	3	1	NULL	0	2021-12-06 07:06:00	0	NULL
	3	test	3	2	NULL	0	2021-12-06 07:06:00	0	NULL
	4	this is a test	3	5	NULL	1	2021-12-07 03:04:02	0	NULL
	5	this is a test	3	1	NULL	0	2021-12-07 03:04:02	0	NULL
	6	this is a test	3	4	NULL	1	2021-12-07 03:04:02	0	NULL
	7	this is a test	3	2	NULL	1	2021-12-07 03:04:02	0	NULL
	8	this is a test	3	3	NULL	1	2021-12-07 03:04:02	0	NULL
	9	this is a test	3	6	NULL	1	2021-12-07 03:04:02	0	NULL
	10	this is a test	3	9	NULL	1	2021-12-07 03:04:02	0	NULL
	11	this is a test	3	8	NULL	1	2021-12-07 03:04:02	0	NULL
	12	this is a test	3	10	NULL	0	2021-12-07 03:04:02	0	NULL

→ List

Table Name: list

Charset/Collation: Default Charset Default Collation

Comments:

Column Name	Datatype	PK	NN	UQ	B	UN	ZF	AI	G	Default/Expression
id	INT	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
category	CHAR(32)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
value	CHAR(255)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

	id	category	value
▶	1	location	Daly City
	2	location	San Francisco
	3	location	South San Francisco
	4	location	Berkeley
	5	location	Oakland
	6	location	Alameda
	7	location	San Mateo
	8	location	San Leandro
	9	major	Accounting
	10	major	Computer Science
	11	major	Finance
	12	major	Business Manage...
	13	major	Biology
	14	major	Economics
	15	major	Chinese
	16	major	English
	17	major	Law
	18	major	Physical Science
	NULL	NULL	NULL

→ Chat (Firebase DB)

chats > rmarlen1v@wei...

csc648rumi	chats	rmarlen1v@weibo.com:rumi1@rumi.com
------------	-------	------------------------------------

+ Start collection + Add document + Start collection + Add field

chats >

+ Add document

messages

0 message: "Sup" sender: "rumi1@rumi.com"

1 message: "Is the roiom available?" sender: "rumi1@rumi.com" timestamp: 1638846866980

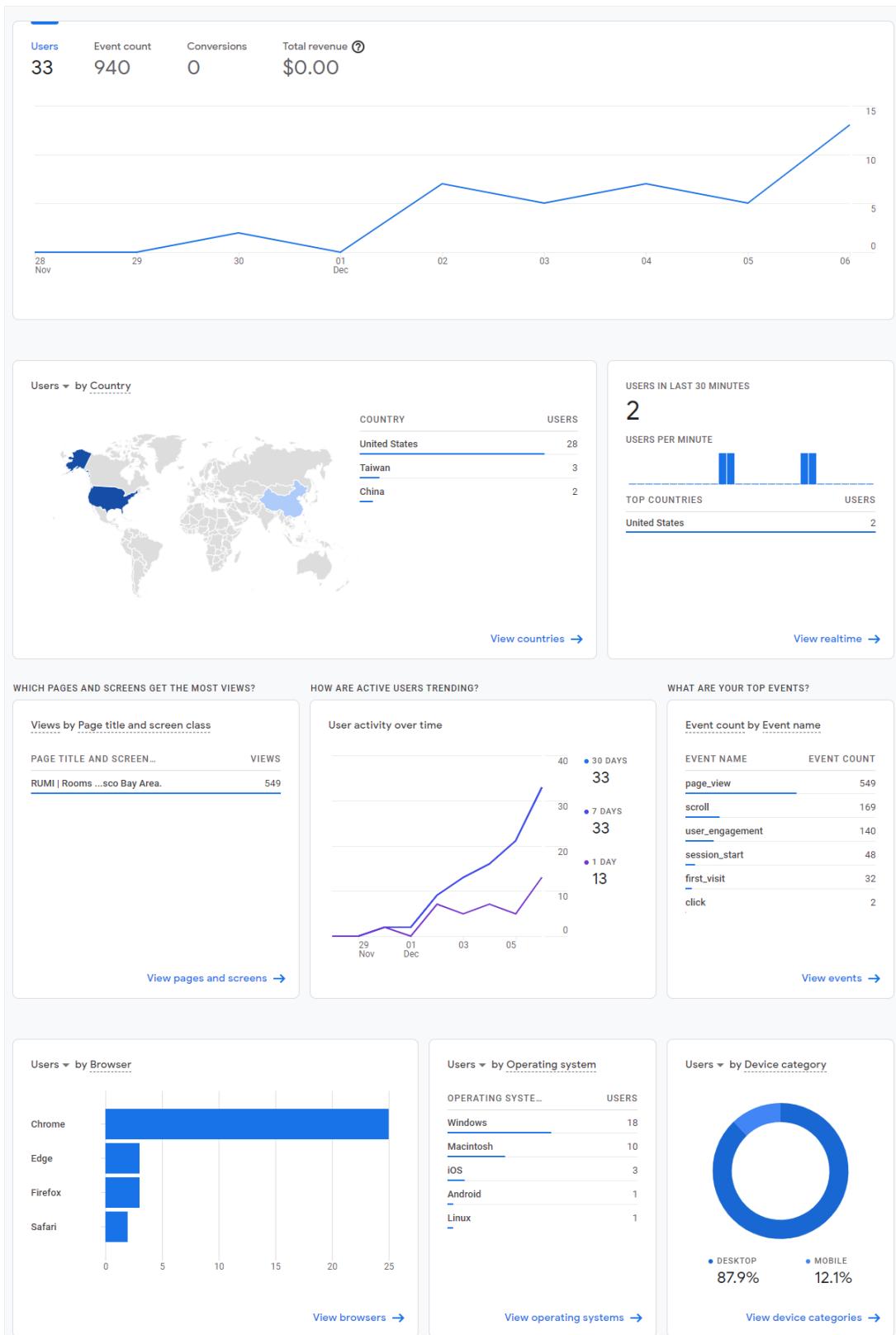
2 message: "I can offer 1000 a month instead of 1200" sender: "rumi1@rumi.com" timestamp: 1638846885624 receiverHasRead: true

users

0 "rumi1@rumi.com"

1 "rmarlen1v@weibo.com"

## 5 Google Analytics Plot for Our WWW site



## 6 Screenshots of Our Task Management System



Projects / CSC 648-02: Rumi Web Development Project

### RUMI board

TO DO 1 ISSUE

Currently, users are not able to delete their account if say choose to do so on our website. This functionality is not required, but good to implement.

RUMI-25 = AS

+ Create issue

IN PROGRESS 2 ISSUES

Users email is exposed when trying to contact other users via the post, which poses a security concern. We may need to prevent this through reworking firebase (optional)

RUMI-26 P = AS

Adding more filters to posts, giving users more tools at their disposal in terms of looking for the right fit room or roommate.

RUMI-27

DONE 13 ISSUES ✓ +

Complete chat interface for user to user chatting, which would allow registered users to chat with other registered users via either chat option in dashboard or through contact button on room/roommate posts.

RUMI-14 ✓ = AS

Ensure proper toastify notifications implemented.

RUMI-15 ✓ = AS

Backend SQL queries must be constantly updated and fixed by backend team members.

RUMI-17 ✓ = AS

TO DO 1 ISSUE

IN PROGRESS 2 ISSUES

DONE 13 ISSUES ✓

WebPage must have aesthetically pleasing CSS uniform across all pages.

RUMI-19 ✓ = AS

Implement NavBar with different functionality depending on if the user is a registered or unregistered user.

RUMI-10 ✓ = AS

Complete user registration form complete with character checks, unique email and password checks, and user preferences and profile picture uploading.

RUMI-11 ✓ = AS

TO DO 1 ISSUE	IN PROGRESS 2 ISSUES	DONE 13 ISSUES ✓
		<p>Complete user login form, which includes correct username and password checks as well as redirection to home page for registered users.</p> <p><input checked="" type="checkbox"/> RUMI-13      ✓ = AS</p>
		<p>Posts must be accessible to all users and have varying filters as well as automated suggestions (unique to registered users). Only registered users can accept or contact posters/other users.</p> <p><input checked="" type="checkbox"/> RUMI-21      ✓ = AS</p>
		<p>Complete AWS hosting of databases and website, allowing for more efficient local testing.</p>

TO DO 1 ISSUE	IN PROGRESS 2 ISSUES	DONE 13 ISSUES ✓
		<p>AWS server must be constantly maintained and updated to reflect most recent changes on GitHub</p> <p><input checked="" type="checkbox"/> RUMI-18      ✓ = AS</p>
		<p>Migrate codebase to make use of firebase for real-time user syncing (allowing for live chats and multi-user accessibility to webpage).</p> <p><input checked="" type="checkbox"/> RUMI-16      ✓ = AS</p>
		<p>Maps must be implemented such that all room posts will automatically contain a map of the generalized location of said room.</p>



TO DO 1 ISSUE	IN PROGRESS 2 ISSUES	DONE 13 ISSUES ✓
		<p>Maps must be implemented such that all room posts will automatically contain a map of the generalized location of said room.</p> <p><input checked="" type="checkbox"/> RUMI-23 ✓ = AS</p> <p>All registered users must be able to edit their own posts and comments.</p> <p><input checked="" type="checkbox"/> RUMI-24 ✓ = AS</p> <p><a href="#">See all Done issues</a></p>

## 7 Team Member Contributions

### → Rasul Imanov Contributions

 **Rasul Imanov**  
Team RUMI - Rasul Imanov Contributions  
To: Cheng-Yu Chuang, Nakulan Karthikeyan, Jasmine Kilani, Joshua Nathaniel Miranda, Anmol Burmy, Alexander Timothy Shirazi

✉️ Inbox - Exchange December 5, 2021 at 10:51 AM Hide

Hey Team,

As part of the Backend team, here is a list of all the contributions that I made:

- Created API for comments
  - Users are able to create a comment
  - Users are able to delete a comment
  - Front End is able to search for a specific comment by comment id, comment text, comment posted by a user id
- Added latitude/longitude support to existing Posts API
  - Users are able to add their location for map support
  - Front End is able to get coordinates and display location on map
- Added DELETE method for Users API
  - Frontend is able to delete users
- Added profile picture support for Users API
  - Users are able to add profile picture with thumbnail generated while registering
- Created API for favorites
  - Users are able to save a room to favorites
  - Users are able to unsave (DELETE) a room
  - Front End is able to retrieve a room saved by saved id, post id, and photo saved by specific user id

Best Regards,  
Rasul

### → Anmol Burmy Contributions

 **Anmol Burmy**  
Team RUMI - Anmol Burmy Contributions  
To: Alexander Timothy Shirazi, Jasmine Kilani, Nakulan Karthikeyan, Rasul Imanov, Joshua Nathaniel Miranda, Cheng-Yu Chuang

✉️ Inbox - Exchange 1:20 PM

Hey Team,

As the Front-end team Lead, here is a list of all the contributions that I made:

- Designed and maintained all the User Interface of the website.
- Optimized the user experience.
- Maintained brand consistency throughout the design.
- Worked with the backend team to connect frontend to the backend.
- Made chat functionality using firebase database.
- Added toast notifications for better user experience.
- Added validation to all the forms in the frontend.
- Assisted backend team with coding and troubleshooting.
- Created cascading style sheets (CSS) that are consistent across all browsers and platforms.
- Ensured web design is optimized for smartphones.
- Prepared the web application for demo purposes.
- Optimized all pages for maximum speed and scalability.
- Fixed bugs and testing for usability.

Best Regards,  
Anmol Burmy

## → Cheng-Yu (Alan) Chuang Contributions

**莊正煜**  
Team RUMI - Cheng-Yu (Alan) Chuang Contributions  
To: aredjaian@mail.sfsu.edu, Jasmine Kilani, Nakulan Karthikeyan, Rasul Imanov, Joshua Nathaniel Miranda, Anmol Burmy

Hi team,

As the Back-end team lead, here is a list of all the contributions that I made:

- Built back-end infrastructure
- Designed table structure for database
- Refactored Back-end code
- Reviewed Back-end code and make sure every api work properly
- Setup/Managed AWS, setup SWAP for AWS to fix out of memory problem
- Setup SSL
- Setup CORS
- Deployed the website
- Created shell for updating the website
- Setup cookie and session
- Created API:
  - Search/Create/Login/Logout Users
  - Search/Create/Suggest/Delete Posts
  - Get Lis
  - Download File
  - Trigger/Get Notification
- Added function for File compress
- Added Users authentication
- Setup Google Analytics
- Helped fix front-end Chat/user login bugs
- Created scripts for setting up all database (including test data)
- Extracted all url in Front-end to a single config file
- Came up all tasks and delegated jobs.

Thank you.

Best regards,  
Cheng-Yu (Alan) Chuang

## → Alex Shirazi Contributions

**AS Alexander Timothy Shirazi**  
Inbox - Exchange 2:21  
Hi  
Alex Shirazi Contributions  
To: Anmol Burmy, Jasmine Kilani, Cheng-Yu Chuang, Nakulan Karthikeyan, Joshua Nathaniel Miranda, Rasul Imanov

Hey Team,

As the Team Leader here is the list of my contributions:

- Communicated with frontend and backend team leads to narrow focuses, investigated areas of improvement, and discussed progress
- Assisted frontend and backend with debugging and implements
- Laid initial implements for the map
- Implemented Edit user

Best,  
Alex Shirazi

## → Jasmine Kilani Contributions

 **Jasmine Kilani**  
Tue 12/7/2021 8:25 AM

To: Alexander Timothy Shirazi; Anmol Burmy; Joshua Nathaniel Miranda; Nakulan Karthikeyan; Rasul Imanov; Cheng-Yu Chuang

Good Morning Team,

As GitHub master and front-end team member my contributions are

- M0: Setting up GitHub for team SW development for RUMI
- M1: Executive Summary: Description of the final product/application and its key advantages, novelty, value
- M2: Project management: Trello task distribution summary
- M4: Product summary & Itemized list of all committed functions
- Integrated Google Maps Platform APIs for the Maps JavaScript API + Places API
- Customized the initial maps implementation for conditional rendering by location using React element variables

Best,  
Jasmine

## → Nakulan Karthikeyan Contributions

 **Nakulan Karthikeyan**  
Tue 12/7/2021 3:40 PM

To: Alexander Timothy Shirazi; Anmol Burmy; Jasmine Kilani; Joshua Nathaniel Miranda; Rasul Imanov; Cheng-Yu Chuang

Good Evening Team,

As a fellow Front-end lead, here is a list of all the contributions that I made:

- Helped in designing and maintaining all the User Interfaces of the website.
- Optimized the user experience.
- Maintained brand consistency throughout the design.
- Helped implement toast notifications across forms for a better user experience.
- Added validation to Post Image and Registration forms in the frontend.
- Prepared the web application for demo purposes.
- Conducted wide-scale testing across the webpage to identify bugs/user usability issues
- Helped in debugging webpage usability testing.

While I was not able to perform as much as I should have as a front-end lead, leaving the bulk of the work to my fellow Front-end lead Anmol, I was happy to help in the limited scope that I did. Thank you all for your time, patience, and understanding.

Best Regards,  
Nakulan Karthikeyan

## → Josh Miranda Contributions

### Team RUMI - Joshua Miranda Contributions



Joshua Nathaniel Miranda <jmiranda7@mail.sfsu.edu>

4:46 PM

To: Alexander Timothy Shirazi; Anmol Burmy; Jasmine Kilani; Rasul Imanov; Cheng-Yu Chuang; Nakulan Karthikeyan

Good Evening Team,

As one of the back end team members, here is a list of all the contributions that I have made:

- M1: High-level System Architecture with MVC structure, itemized list of technologies used, team roles, and checklist
- M3: Helped keep track of feedback given from CTO in order to determine what tasks and features needed to focused on and improved
- M4: Data validation check of the back-end messaging (in Documentation)
- M5: Included screenshots of key database tables included in our project
- Added statements in models and routes that had to do with editing a user's information

I apologize for such small contributions compared to my many hardworking team members, but I hope this list helped as much as it could!

Best,  
Joshua Miranda

## → The Number of Submissions for Git

Members	The Number of Submissions
Alex Shirazi	34
Anmol Burmy	126
Cheng-Yu Chuang	118
Jasmine Kilani	31
Josh Miranda	9
Nakulan Karthikeyan	10
Rasul Imanov	26

## 8 Post Analysis

→ The result of our project demonstrated that our product had tons of effort put into it and shows our ability to work in a team. Everyone on the team did a great job with the project. Although our communication was strong and mostly consistent, it still would be considered our biggest challenge. There would be some points during the semester where communication wasn't present. This posed problems for the team because the team leads didn't know the state of an implement whether it was being implemented or not. Team leads compensated and took over some tasks by members who occasionally went MIA because the team leads wanted to ensure the project was on track to being complete by the end of the semester. So as a team, I think we all learned that more communication always helps. In group projects, there's no such thing as too much communication and it helps the entire team so others don't assume implements are not being worked on. Furthermore, it helps to make sure we are on track with the project so team leads can focus on the next important implementation. In a sense more communication leads to more organization and productivity. Next time to prevent an issue like this, I feel like it's important to allow the entire team to feel comfortable with each other. During our project, we kept communication professional and straightforward in regards to the application. We didn't stress the importance of stronger communication because we felt it wasn't needed for our project. However, knowing your team members better than acquaintances can allow the team to connect better and make it a priority in everyone's lives to communicate for the integrity of the project. For example asking for help more often, discussing a time frame for an implementation, connecting with team leads to get their opinions on progress they've made. Occasionally, life can get in the way of the project and when a team is very comfortable with each other, members can make an effort to tell the team about how some implements could be delayed as a result of life. Essentially the roots to all team projects is always going to be communication.