

# TOWN HALL

MAY 5



IN  
CONSTRUCTION  
KURDOS



# Members



Christopher Kurdoghlian  
(CEO)

Ali Mansara

Kevin Thamaswamy

Ramsey Forester

Nicolas Escobido

Garret Matsuda

# PLAN

01 VISION

02 ARCHITECTURE

03 DEVELOPMENT

04 TESTING

05 CONCLUSION

01

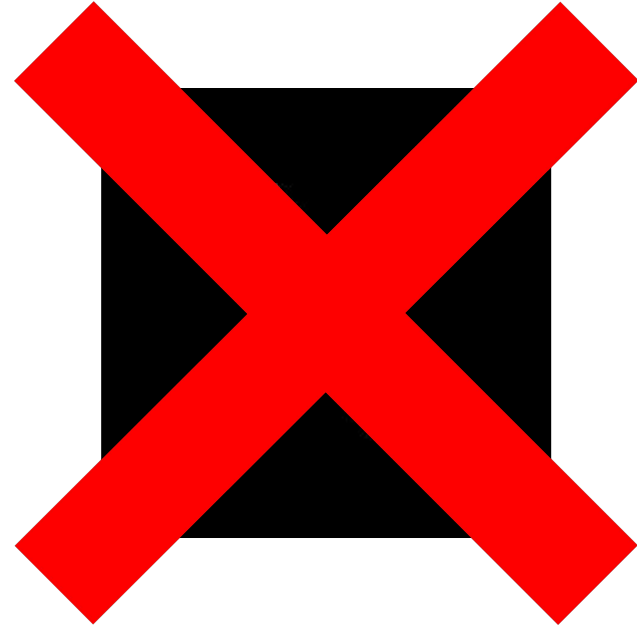


# VISION



**Quote from CEO**

“We lack a true digital town hall, that we and our communities and people exceedingly need.”





## Current Community Communication Challenges

- Unverified users, bots
- Fragmented platforms during emergencies
- No location verification for local relevance; too large
- Limited direct access to government officials
- Too large scale political
- Not officially government sponsored; local officials hard to reach



## Our Solution

- Verified users with real identities
- Verified Community joining
- Official Government platform
- Official role verification (badges)
- Emergency alert system



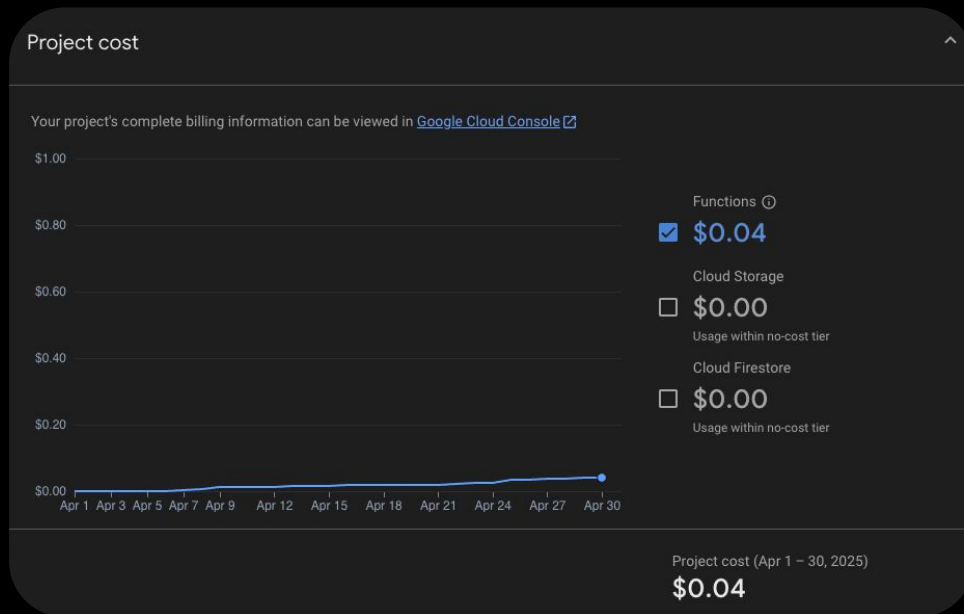
# SYSTEM ARCHITECTURE





## KEY ARCHITECTURAL POINTS

- API Endpoints for Verification functions
- Client side access with firestore rules for cost savings
- Function for dynamic pages



## FOLDERS AND PROJECT STRUCTURE

- **app/:** Next.js routes, pages, services
- **components/:**
- **functions/:**
- **lib/:** Firebase configuration
- **types/:** (interfaces)
- **Firestore rules, other config and json files**



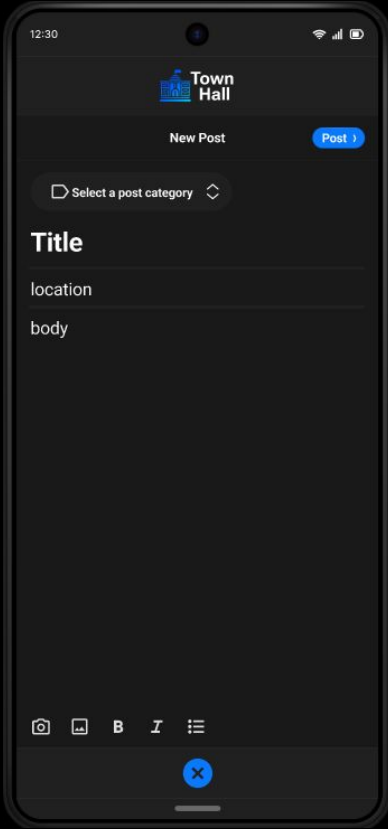
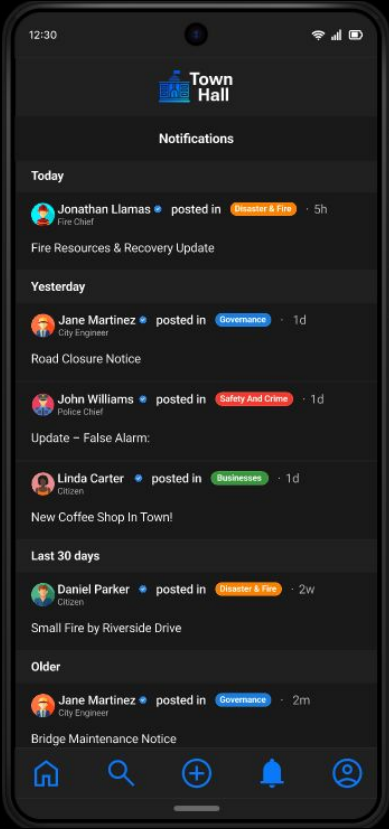
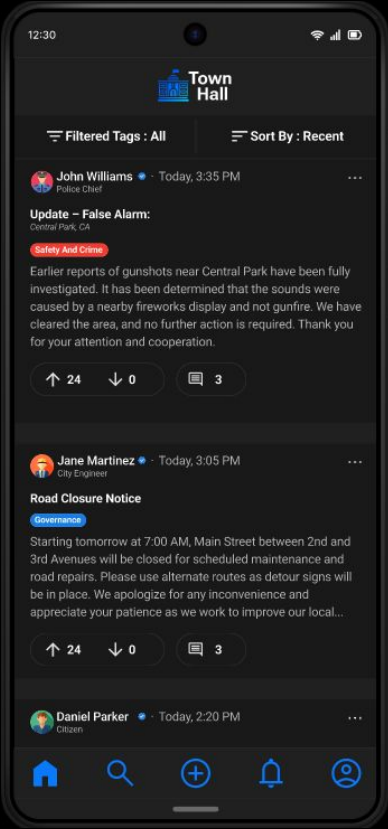
# DEVELOPMENT



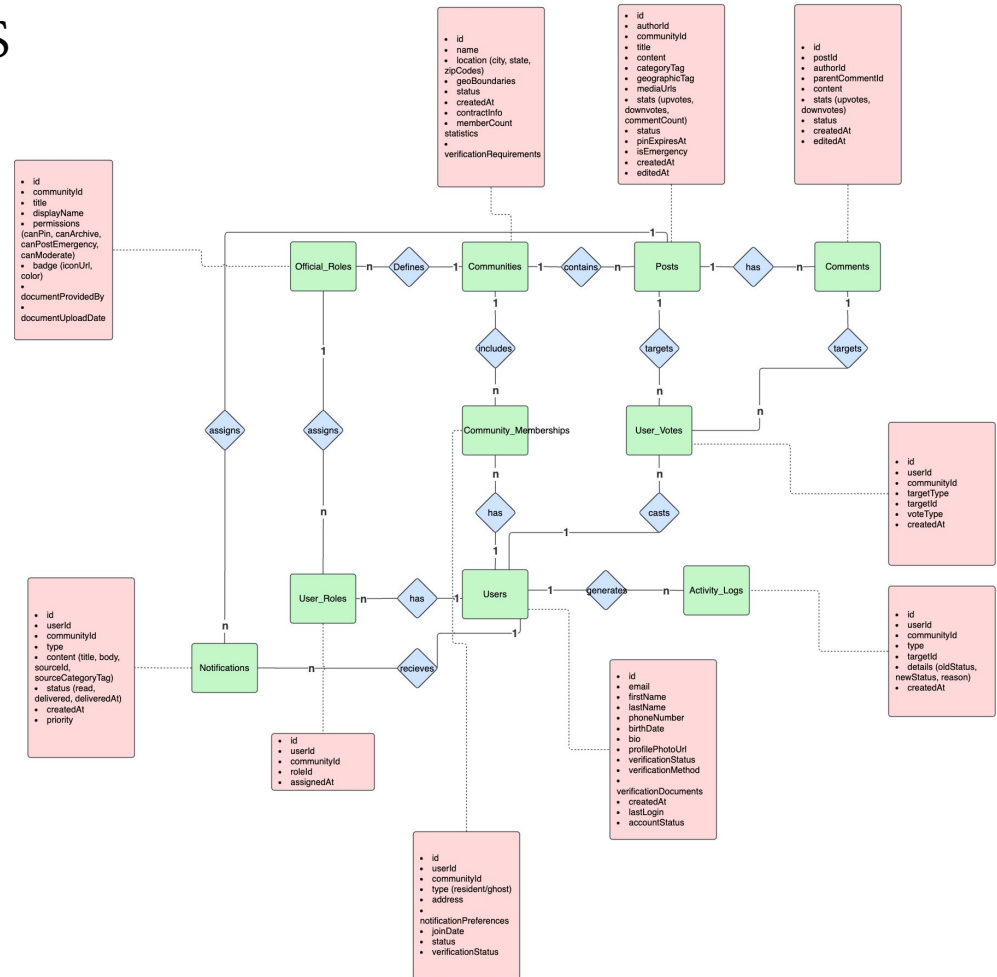
THE SRS AND FIGMA:

# DEVELOPING A PLAN AND ROUGH DRAFT

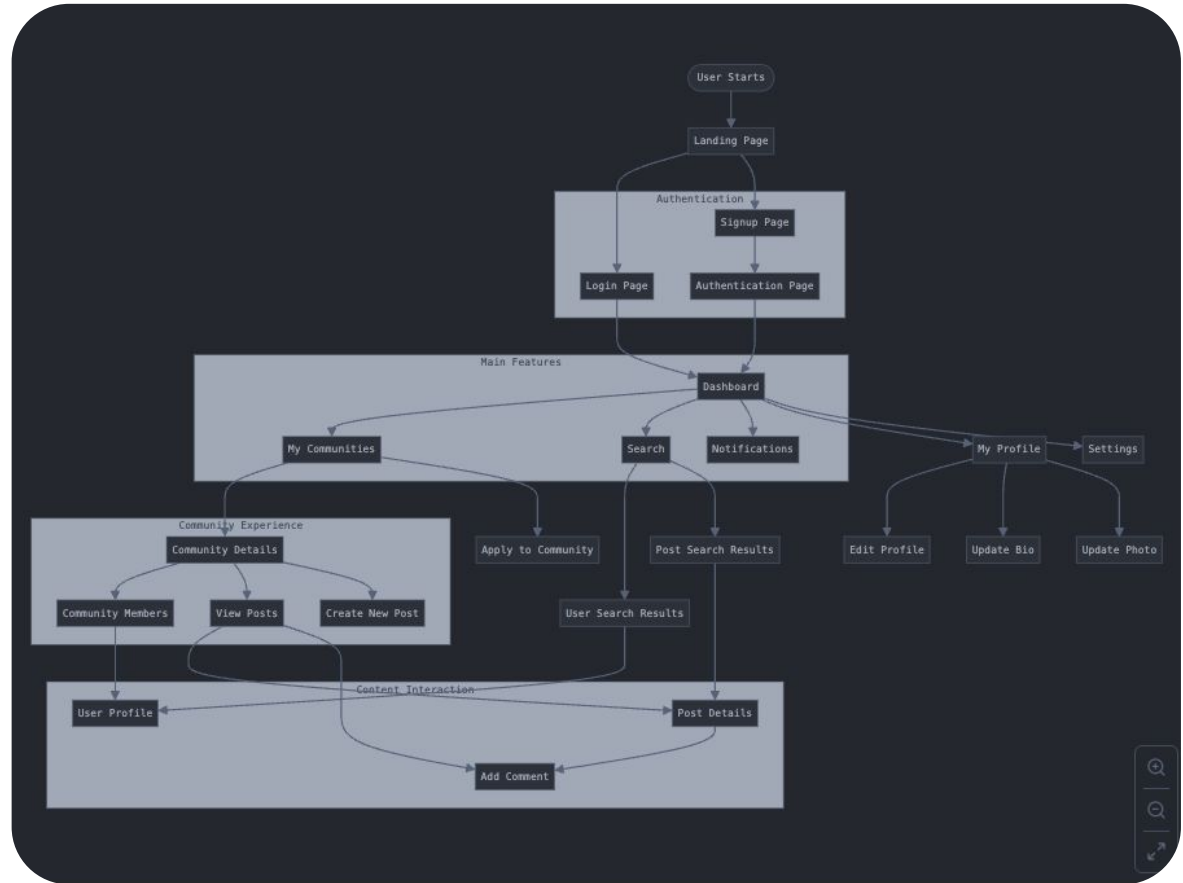
# FIGMA ROUGH DRAFT



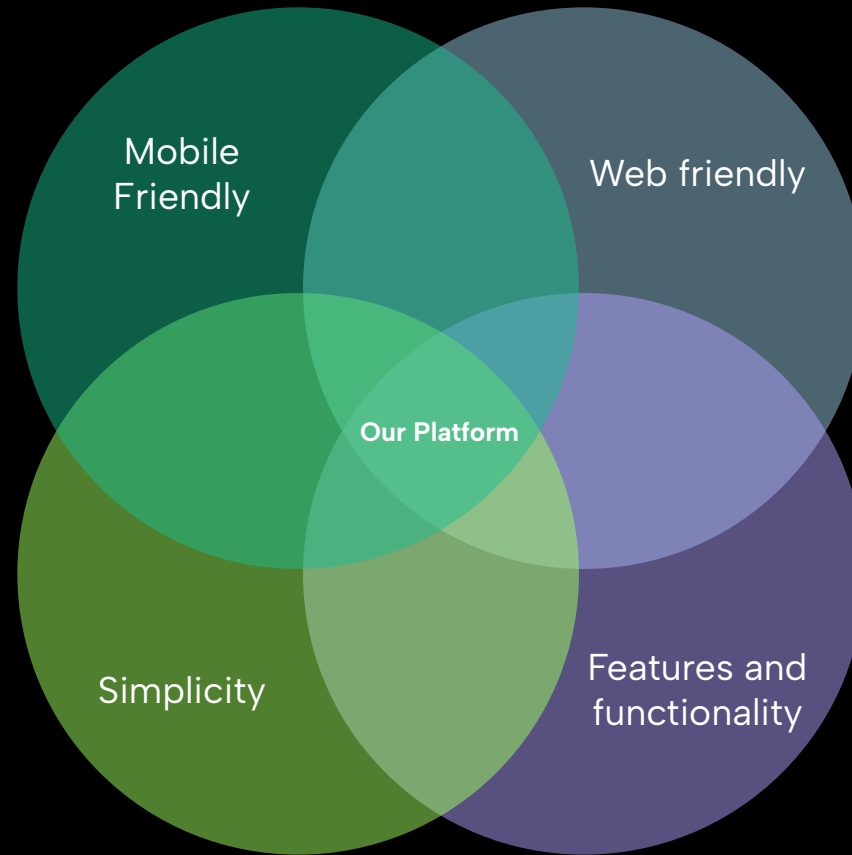
# CREATION OF DATABASE TYPES



# USER FLOW CREATION







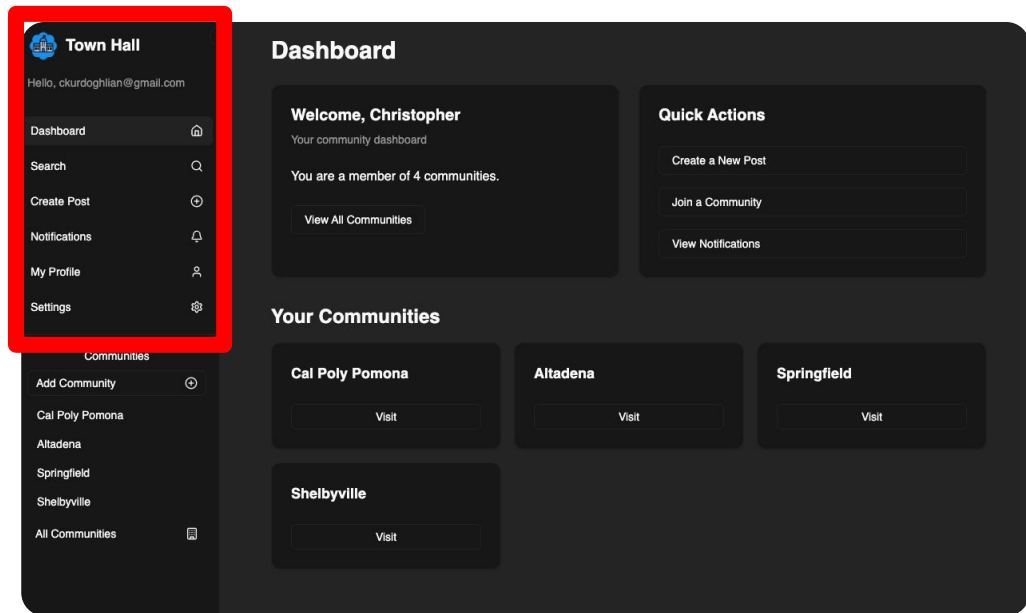
# EARLY DEVELOPMENT

- **Prioritize UI components for scalability, mobile view**
- **Dark and light theme**
- **Folder format and naming conventions**
- **Login and signup**



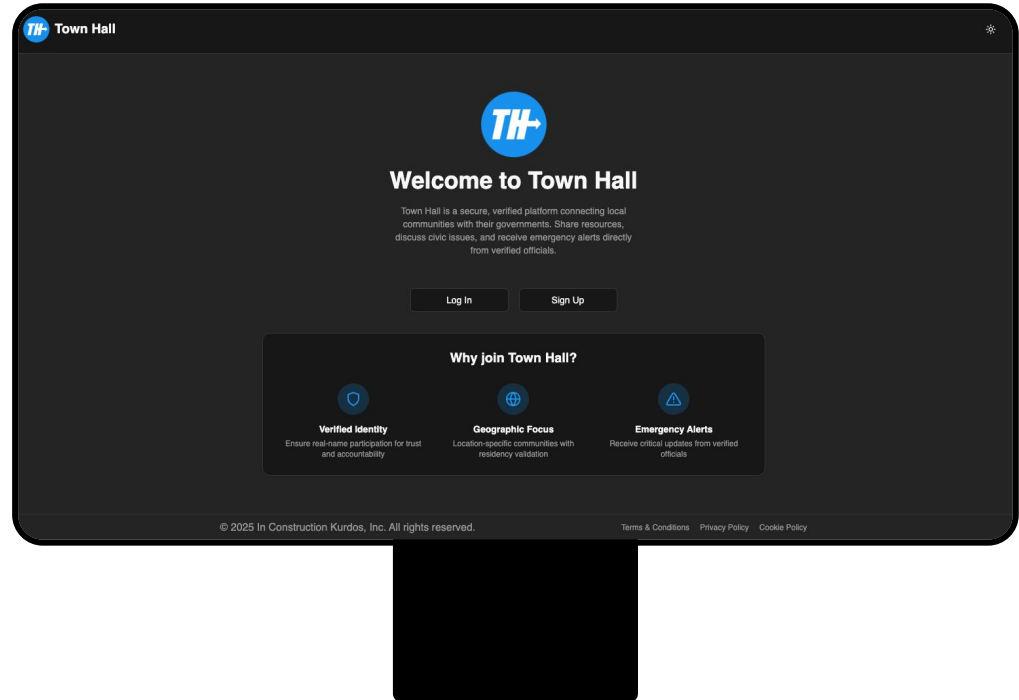
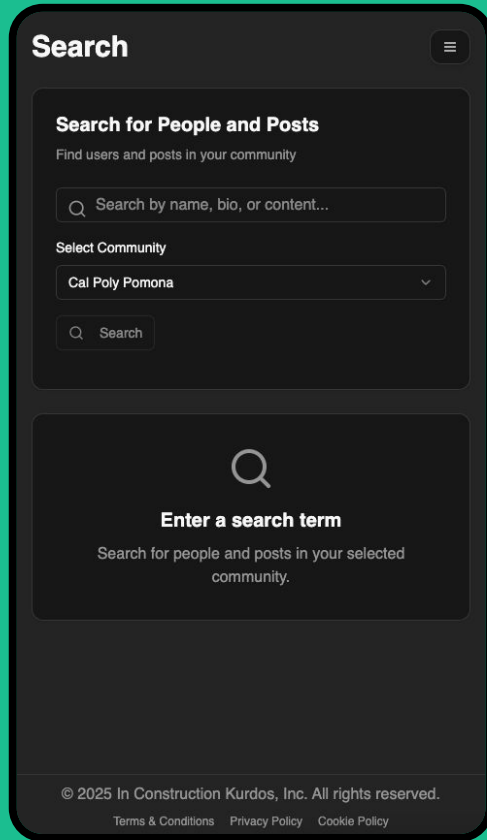
## Quote from CEO

"I have grown the trunk of the tree; now you can branch off of it and bear the fruits:"



# MORE DEVELOPMENT

- NOTIFICATIONS
- CREATE POST
- SETTINGS
- SEARCH
- MY PROFILE
- USER PROFILE PAGES
- POST PAGES AND COMMENTS
  
- ADMIN USER PLATFORM





Dashboard / Communities / New Post

Create New Post

Share your thoughts with your community

Community

Cal Poly Pomona

Post Title

Enter a descriptive title

Location (Optional)

Enter street address or location

Post Content

Write your post content here...

Category

General Discussion

Media (Optional)

Upload Images (Max 5)

Supported formats: JPG, PNG, GIF | Max size: 5MB per image

Create Community Notification

When enabled, this will send a notification to community members based on their individual notification preferences. Emergency posts will always be sent.

Cancel

Create Post

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← Back

Dashboard / Communities / Cal Poly Pomona / Post

Check out this incredible photo I took

General Discussion

CPP

Christopher Kurdoghlian

Community moderator

Apr 26, 2025, 11:58:24 AM

Truly incredible campus we have. Thank you to all the people that work to maintain this campus for us!

2

0

1

Add Your Comment

General Discussion

CPP

Posted by Christopher Kurdoghlian

Community moderator

7 days ago

Truly incredible campus we have. Thank you to all the people that work to maintain this campus for us!

2

0

1

View Details

Welcome All!

General Discussion

Posted by Christopher Kurdoghlian

Community moderator

10 days ago

So happy to see so many people join.

2

1

6

View Details

Like for kendrick

General Discussion

Posted by Garrett Masuda

Professor

10 days ago

Kendrick > Drake

3

1

2

View Details

EMERGENCY: CPP POLICE SAYS TRESSPASSER IN LOT D

Official Emergency Alerts

LOT D

Posted by Christopher Kurdoghlian

Community moderator

10 days ago



## Settings

### Account

Email: christopherkurdoghlian@gmail.com

Name: Christopher Kurdoghlian

Logout

### Community Settings

Cal Poly Pomona

### Notification Preferences

Choose which types of community updates you'd like to receive

Emergency Alerts

General Discussion

Safety & Crime

Governance

Disaster & Fire

Businesses

Resources & Recovery

Community Events

### Push Notifications

Town Hall

Hello, christopherkurdoghlian@gmail.com

Dashboard

Search

Create Post

Notifications

My Profile

Settings

Communities

Join Community

Cal Poly Pomona

Springfield

Shelbyville

My Communities

Dark Mode

Logout

Back

Dashboard / Browse Communities / Altadena Application

## Apply to Join Altadena

### About Altadena

The official page for Altadena, California. Altadena is an unincorporated area, and census-designated place in the San Gabriel Valley and the Verdugos regions of Los Angeles County, California. Directly north of Pasadena, it is located approximately 14 miles from Downtown Los Angeles.

Location

Los Angeles, CA

Members

2

### Address Information

Please provide your residential address to verify your eligibility for this community

Street Address

123 Main St

City

Los Angeles

State

CA

Zip Code

00000

Proof of Residence

Upload proof of residence

Utility bill, lease agreement, or other document showing your address

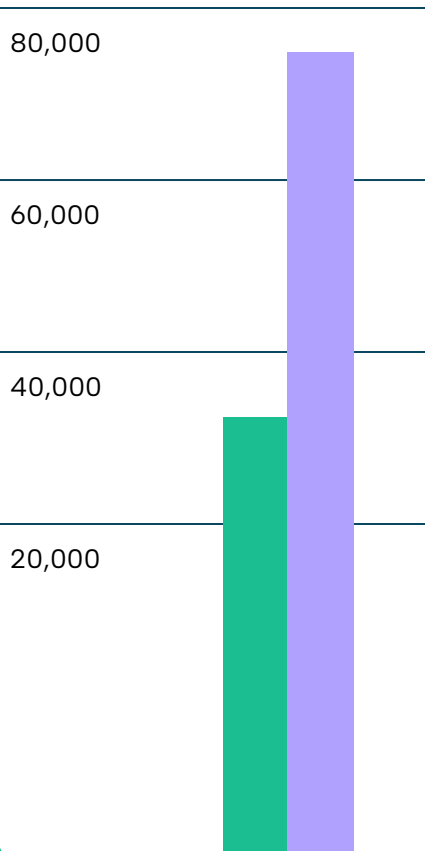
Screenshot

In Construction  
Kurdos, Inc

23



## Lines of Code



- With auto generated code
- Written by Developers

source-code-stats.txt

1 github.com/AlDanial/cloc v 2.04 T=4.35 s (51.5 files/s, 8424.3 lines/s)

2	-----				
3	Language	files	blank	comment	code
4	-----				
5	TypeScript	151	3858	3260	28174
6	JavaScript	68	44	75	680
7	CSS	5	56	15	453
8	-----				
9	SUM:	224	3958	3350	29307
0	-----				







## ATTENTION TO DETAIL, COMMUNITY, AND FUNCTION

**Trash Raccoon Bandit**

Safety & Crime Dorm Trashcans Pinned

Posted by [Ali Manasra](#)  
Member 10 days ago

The self proclaimed "Trash PANDA" is hitting our trash cans and causing a mess :{.



2

0

2

[View Details](#)


**Post Actions**

- Unpin Post
- Archive Post
- Delete Post
- View Details






# ATTENTION TO DETAIL, COMMUNITY, AND FUNCTION

**Comments (2)**



 Christopher Kurdoghlian  
Community moderator  
Apr 23, 2025, 11:01:04 PM


This is quite funny, but must be addressed asap!!!

 2  0 Reply



 Ali Manasra  
Member  
Apr 23, 2025, 11:03:17 PM

this guy gets it


 1  0 Hide Replies Reply

 Christopher Kurdoghlian  
Community moderator  
May 4, 2025, 11:01:54 AM

exactly!

 1  0 Reply

**Comment Actions**


 Delete Comment





# ATTENTION TO DETAIL, COMMUNITY, AND FUNCTION


[← Back](#)

Dashboard / Communities / Cal Poly Pomona / Members / Garrett Masuda



**Garrett Masuda**  Professor

 garrett.masuda9@gmail.com

 Member since 4/23/2025


**About**

No bio available




**Recent Posts**

**Like for kendrick**

General Discussion

 Posted by **Garrett Masuda**  
Professor 10 days ago


Kendrick > Drake

 3  1  2




[View Details](#)

**Follow my linkedin**

General Discussion

 Posted by **Garrett Masuda**  
Member 10 days ago


[www.linkedin.com/in/garrett-masuda-98b74b276](https://www.linkedin.com/in/garrett-masuda-98b74b276)

 1  0  0


[View Details](#)


[View All Posts](#)


**Community Role**

 **Professor**  
Garrett Masuda

**Permissions:**

 Can pin posts

 Can archive posts


 Can post emergencies

Role assigned: 4/26/2025

## TRANSPARENCY



# ATTENTION TO DETAIL, COMMUNITY, AND FUNCTION

 **Town Hall Admin**

Dashboard

Create Community

Manage Roles

Database

## Manage Community Roles

Select Community

Altadena

Community Roles

Add Role

User ID	Title	Full Name	Permissions	Badge	Actions
---------	-------	-----------	-------------	-------	---------


## Manage Community Roles

Select Community

Cal Poly Pomona

Community Roles

Add Role

 **Town Hall Admin**

Dashboard

Create Community

Manage Roles

Database

### Create New Community

Community Name

Enter community name

Community Description

Describe the community

City

Enter city

State

Enter state


Zip Codes (comma-separated)

90001, 90002, 90003

Create Community



# ATTENTION TO DETAIL, COMMUNITY, AND FUNCTION

 **Town Hall**

ello, ckurdoghlian@gmail.com

Dashboard

Search

Create Post

Notifications

My Profile

Settings

Communities

Join Community

Cal Poly Pomona

Altadena

Springfield

Shelbyville

My Communities

Light Mode

Logout

Community

Cal Poly Pomona

Post Title

Enter a descriptive title

Location (Optional)

Enter street address or location

Post Content

Write your post content here...

Category

Official Emergency Alerts

General Discussion

Safety & Crime

Governance

Disaster & Fire

Businesses

Resources & Recovery

Community Events

Emergency Discussion

Official Emergency Alerts

Upload Images (Max 5)

5MB per image

community members based on their individual notification preferences. Emergency posts will always be

Cancel

Create Post

Share your thoughts with your community

Community

Springfield

Post Title

Enter a descriptive title

Location (Optional)

Enter street address or location

General Discussion

Safety & Crime

Governance

Disaster & Fire

Businesses

Resources & Recovery

Community Events

Emergency Discussion

Official Emergency Alerts (Requires permission)

Governance

Media (Optional)

Upload Images (Max 5)

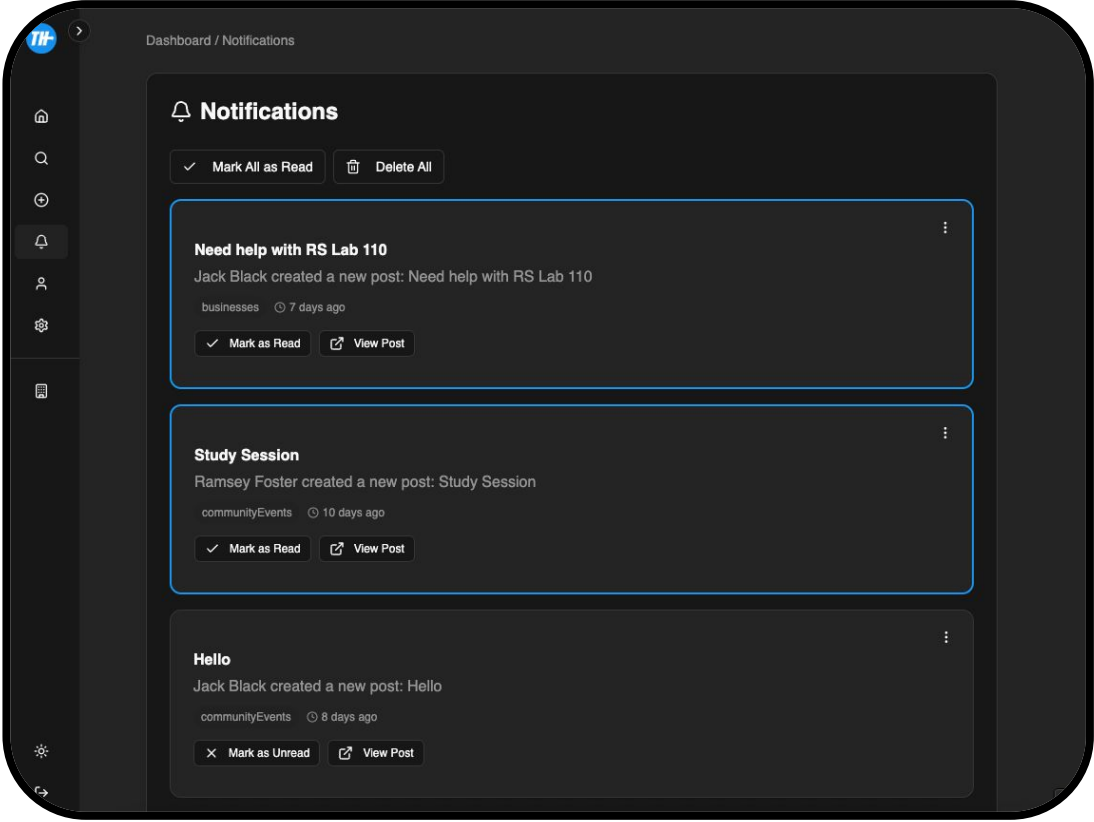
Supported formats: JPG, PNG, GIF | Max size: 5MB per image

Create Community Notification

When enabled, this will send a notification to community members based on their individual notification preferences. Emergency posts will always be sent.



# ATTENTION TO DETAIL, COMMUNITY, AND FUNCTION





# ATTENTION TO DETAIL, COMMUNITY, AND FUNCTION

## Legal Information

[Terms & Conditions](#) [Privacy Policy](#) [Cookie Policy](#)

### Terms & Conditions

Last Updated: March 21, 2025

#### 1. Introduction

Welcome to Town Hall ("we," "our," or "us"). By accessing or using our service, you agree to be bound by these Terms & Conditions. If you disagree with any part of these terms, you may not access the service.

#### 2. User Accounts

2.1. You must complete the registration process by providing your current, complete, and accurate information as prompted by the registration form.

2.2. You are responsible for maintaining the confidentiality of your account and password and for restricting access to your account.

2.3. Town Hall requires identity verification via government-issued ID to ensure real-name participation. This is to maintain community trust and accountability.

#### 3. Community Standards

3.1. Users are expected to engage respectfully with others in the community.

3.2. Posts must be relevant to the geographic community they are posted in.

3.3. Content that violates our community guidelines, including but not limited to hate speech, threats, harassment, or spam, may be removed.

3.4. User accounts may be suspended or terminated for repeated violations of these standards.

#### 4. Content

4.1. By posting content on Town Hall, you grant us a non-exclusive, royalty-free license to use, reproduce, and display such content in connection with the service.



# TESTING



# Unit testing with jest

- Mock components
- Isolating pages
- page.test.tsx page for every page.tsx
- Testing individual components
- 76% of lines covered

File	% Stmts	% Branch	% Funcs	% Lines	Uncovered Line #s
All files	74.91	55.89	63.34	76.56	
app	100	100	100	100	
page.tsx	100	100	100	100	
app/admin	100	100	100	100	
page.tsx	100	100	100	100	
app/auth/login	100	100	100	100	
page.tsx	100	100	100	100	
app/auth/signup	100	100	100	100	
page.tsx	100	100	100	100	
app/communities	100	73.33	100	100	
page.tsx	100	73.33	100	100	46,105-113
...communities/[id]	66.92	47.36	60	71.3	
page.tsx	66.92	47.36	60	71.3	...45-174,180-205
...es/[id]/new-post	44.39	48.69	27.58	45.37	
page.tsx	44.39	48.69	27.58	45.37	...29-644,689-786
...l/posts/[postId]	80.8	69.64	67.74	83.33	
page.tsx	80.8	69.64	67.74	83.33	...57,658,741-750
...ities/[id]/users	98.63	84.37	100	100	
page.tsx	98.63	84.37	100	100	64,105,156,211
...l/users/[userId]	95.52	77.08	83.33	98.46	
page.tsx	95.52	77.08	83.33	98.46	165
...es/access-denied	100	100	100	100	
page.tsx	100	100	100	100	
...ities/apply/[id]	64.84	60.41	85	64.8	
page.tsx	64.84	60.41	85	64.8	99-100,133-227
...mmunities/browse	91.34	58.06	88.88	92.85	
page.tsx	91.34	58.06	88.88	92.85	140-146
app/dashboard	97.36	85.71	100	97.29	
page.tsx	97.36	85.71	100	97.29	50
app/myprofile	96.15	82.6	100	97.36	
page.tsx	96.15	82.6	100	97.36	57-58
app/notifications	92.7	63.15	94.11	96.66	
page.tsx	92.7	63.15	94.11	96.66	59-60,181
app/settings	67.59	53.12	30	69.52	
page.tsx	67.59	53.12	30	69.52	...54-155,275-397
components/ui	33.76	0	4.76	30.43	
button.tsx	75	0	0	85.71	47
card.tsx	100	100	0	100	
footer.tsx	100	100	0	100	
main-navbar.tsx	16.94	0	7.69	17.54	23-342
lib	50	100	0	50	
utils.ts	50	100	0	50	4-5

# Use Case Testing

- About 80 use cases fully tested in detail
- Ensures each feature and component works correctly for the user and look great

Test No.	Page	Use Case	Expected	Actual	Pass/Fail
1	app/page.jsx	Click Login/Signup	Takes you to Login or Sign up Page	Takes you to Login or Sign up Page	✓
2	app/page.jsx	Footer appears on bottom, top navbar appears	Footer appears on bottom, top navbar appears	Footer appears on bottom, top navbar appears	✓
3	app/auth/login/page.jsx	User clicks log in with Google	user signs in through google process - if no account yet, they're prompted to make one. They are directed to the next page; either to verify their identity or their dashboard.	user signs in through google process - if no account yet, they're prompted to make one. They are directed to the next page; either to verify their identity or their dashboard.	✓
4	app/auth/login/page.jsx	User provides email and password correctly	user signs in, then they are directed to the next page; either to verify their identity or their dashboard if they already have.	user signs in, then they are directed to the next page; either to verify their identity or their dashboard if they already have.	✓
5	app/auth/login/page.jsx	User provides email and password incorrectly or does not have an account	Firebase: Error (auth/invalid-credential)	Firebase: Error (auth/invalid-credential)	✓
6	app/auth/signup/page.jsx	User signs in with Google	User Signs in through google process - if already has account, logs in	User Signs in through google process - if already has account, logs in	✓
7	app/auth/signup/page.jsx	Passwords don't match when signing up	You are unable to sign up and are told the passwords don't match	You are unable to sign up and are told the passwords don't match	✓
8	app/auth/signup/page.jsx	User creates an account	Told to check email in order to verify your identity	Told to check email in order to verify your identity	✓
9	app/communities/page.jsx	Clicking any button	Takes you to the corresponding page	Takes you to the corresponding page	✓
10	app/communities/[id]/page.jsx	Clicking the Like/Dislike button on a post	Likes/Dislikes the post	Likes/Dislikes the post	✓
11	app/communities/[id]/page.jsx	Filter posts by category	Only shows posts from the selected category	Only shows posts from the selected category	✓
12	app/communities/[id]/page.jsx	Sorting Posts by most recent, popular, or trending	Sorts all posts with the associated selection	Sorts all posts with the associated selection	✓
13	app/communities/[id]/page.jsx	Click "View Details" or the comment button	Takes you to the full post	Takes you to the full post	✓
14	app/communities/[id]/users/page.jsx	Search for specific members of a community	As you type each character of the member's name, the shown members reduces based on the search	As you type each character of the member's name, the shown members reduces based on the search	✓
15	app/communities/[id]/users/page.jsx	Click a member's profile	Takes you to their profile page	Takes you to their profile page	✓
16	app/communities/[id]/users/[userid]/page.jsx	Clicking "View all Posts"	Takes you back to the community page	Takes you back to the community page	✓
17	app/communities/[communityid]/posts/[postid]/page.jsx	Adding a comment	Comment is shown under original post	Comment is shown under original post	✓
18	app/communities/[communityid]/posts/[postid]/page.jsx	Clicking the Like/Dislike button on a comment under a post	Likes/Dislikes the comment	Likes/Dislikes the comment	✓
19	app/communities/[communityid]/posts/[postid]/page.jsx	Clicking show or hide reply	Shows/Hides replies on a comment	Shows/Hides replies on a comment	✓
20	app/communities/[communityid]/posts/[postid]/page.jsx	Clicking the reply button under a comment or another reply	Allows you to reply to a comment by commenting under a comment	Allows you to reply to a comment by commenting under a comment	✓
21	app/communities/[communityid]/posts/[postid]/page.jsx	Clicking the 3 dots in the	Deletes the post/comment	Deletes the post/comment	✓





# CONCLUSION & DEMO


- No cost development of social platform of the future
- Government sponsored
- Works and looks good
- AI users, web scraper, and bot proof
- Can help communities in times of need and bring people together

cs-4800-in-construction-63b73.web.app



 Town Hall






### Town Hall

Join your local community today.

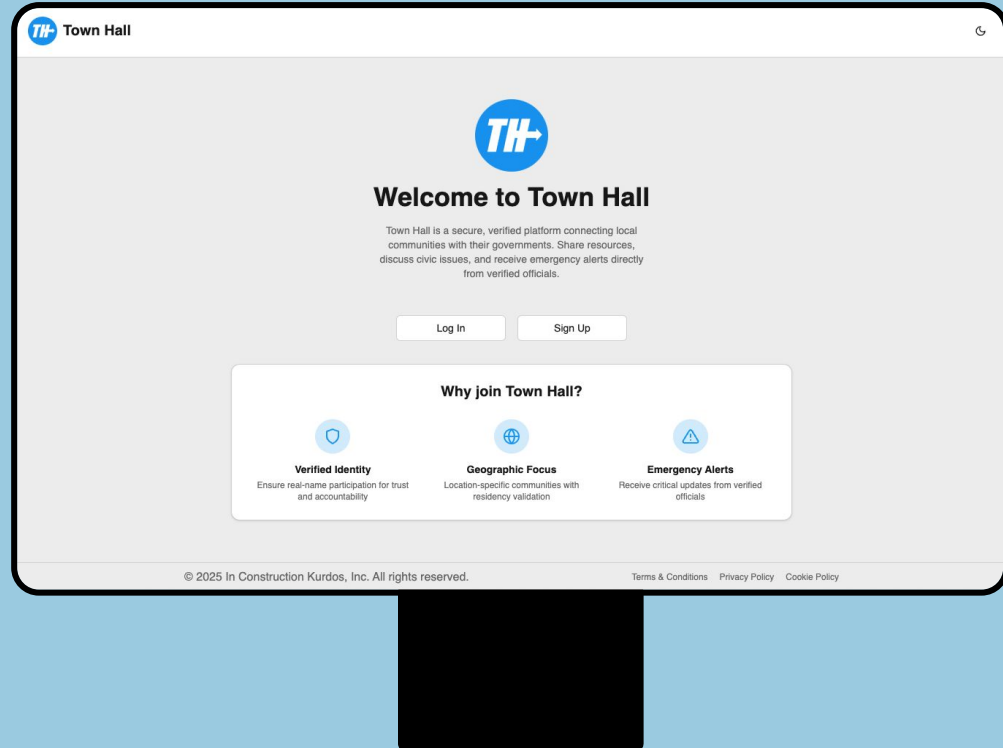
Create account

 Sign up with Google


Already have an account? [Log in](#)


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For the sake of this demo upload any photo


 Town Hall

 [Log Out](#)

### Complete Your Verification

Hello, ckurdog871@student.glendale.edu

To use Town Hall, please verify your identity by providing your name, birth date, and a government-issued ID (PNG or JPEG only, max 5MB).

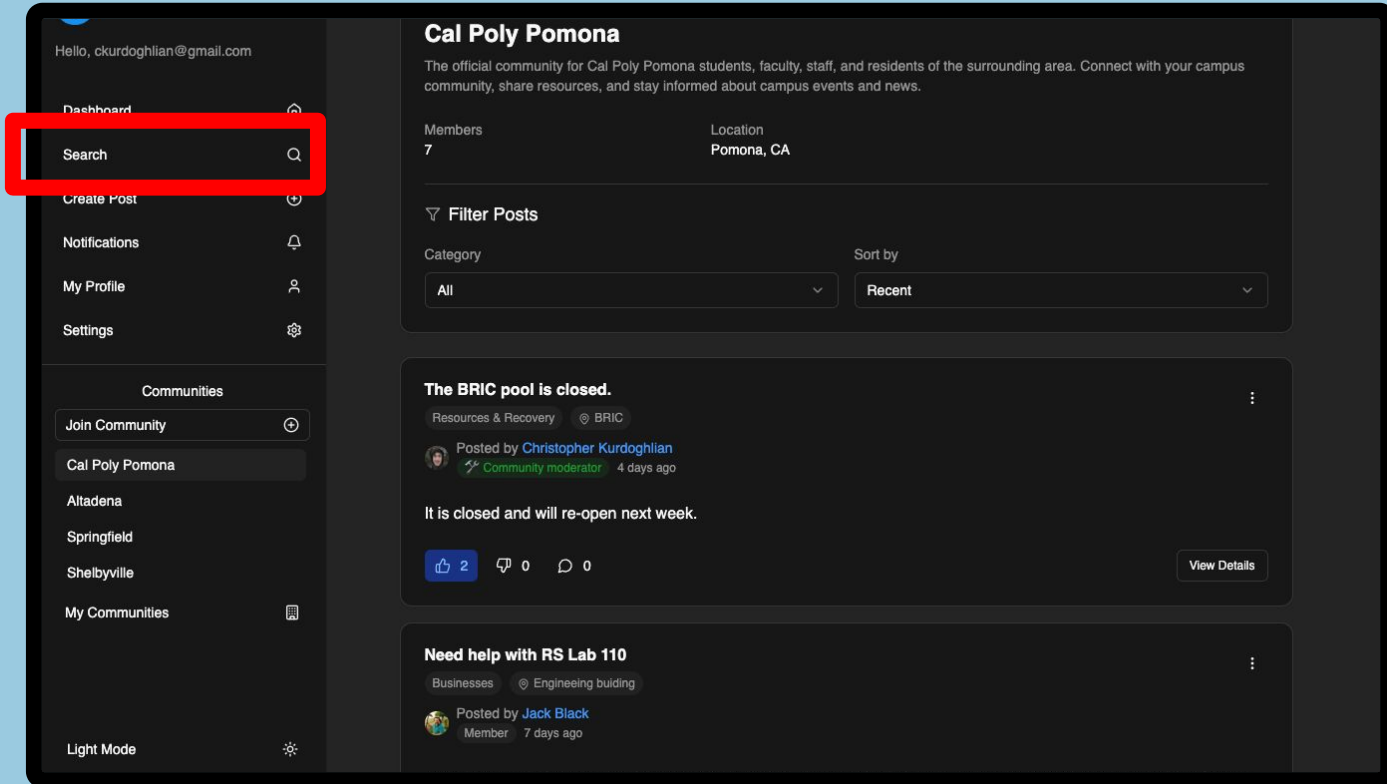


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# Join, make a post, and enjoy!





# Thanks!



MAY 5



IN  
CONSTRUCTION  
KURDOS

CORPORATE SITE: <https://main.dlgldjuhdm35b.amplifyapp.com/logs>  
REPO: <https://github.com/christopherk26/InConstruction4800>