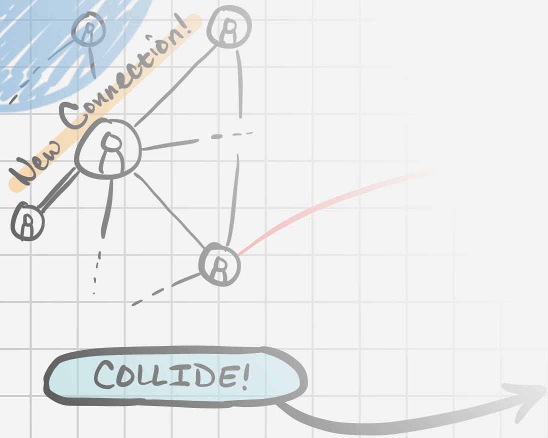
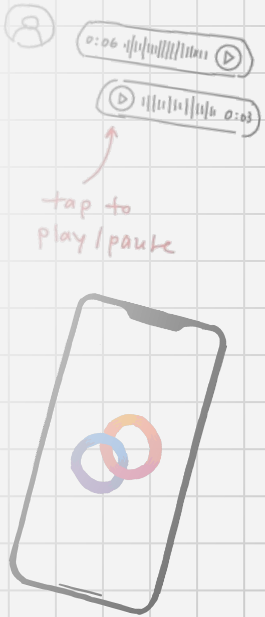
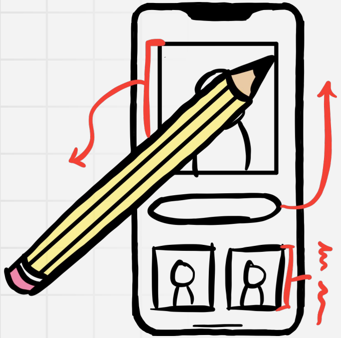
Collide

Low-Fi Prototyping & Pilot Usability Testing

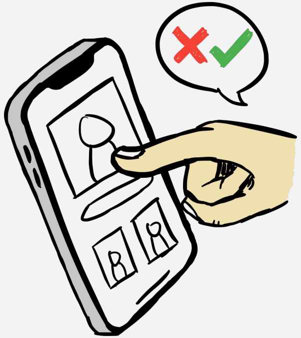

New Connection!
COLLIDE!


0:06
0:03
tap to play/pause

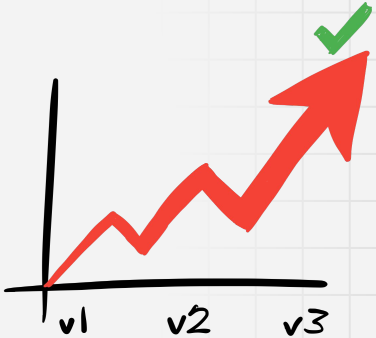
Overview



Prototyping



Testing



Improving

Prototyping

Our Mission

The problem:

Transitioning to a new environment, people find it difficult to make meaningful connections and are fearful of reaching out.

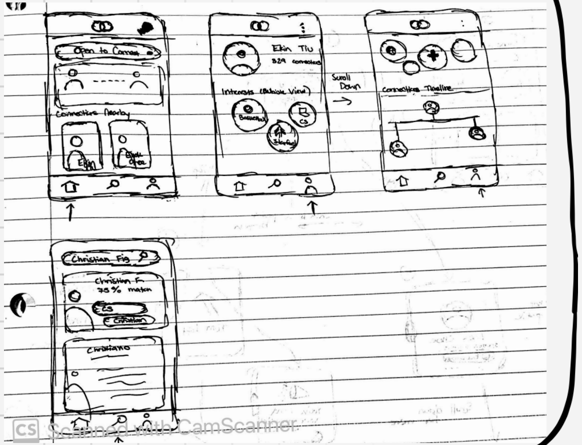
Our Solution:

We want to solve this by creating opportunities for people, who would have otherwise passed by each other, to stop and talk.

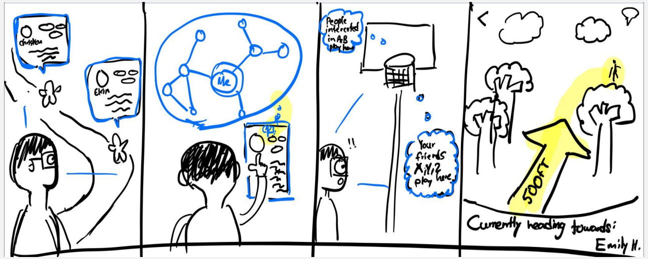
> "Your next best friend is just around the corner."

Choosing a Modality

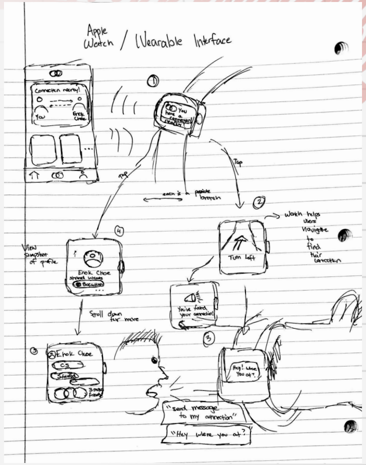
Mobile Phone #1


Open to Connect
Connections Nearby
Ekin
Erick Chee
Ekin Tiu
829 connections
Interests (Bubble View)
Basketball
CS
Stanford
Scroll Down
Connections Timeline
Christian Fig
Christian F.
75% match
CS
Christian
Christiano
Scanned with CamScanner

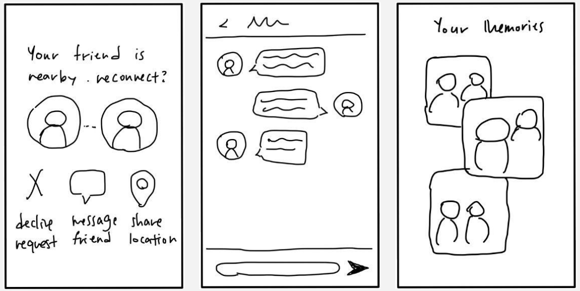
AR


christian
Ekin
Me
People interested in A,B play here
Your friends X,Y,Z play here
500FT
Currently heading towards:
Emily H.

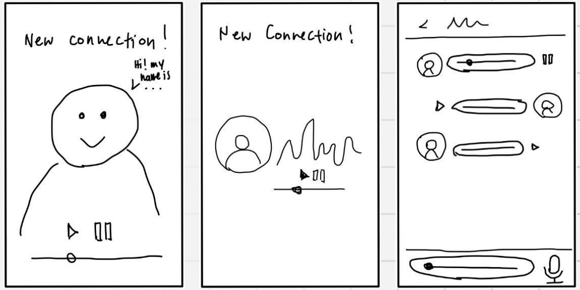
Wearable


Apple Watch / Wearable Interface
①
Connection nearby!
You
Erick Chee
You have a connection nearby!
Tap
Tap
each is a possible branch
②
Watch helps users navigate to find their connection
Turn left
④
View snapshot of profile
Erick Chee
shared interests
Basketball
You've found your connection!
Scroll down for more
③
Erick Chee
CS
Stanford
3 mutual friends
③
Hey! Where you at?
"send message to my connection"
"Hey where you at?"

Mobile Phone #2

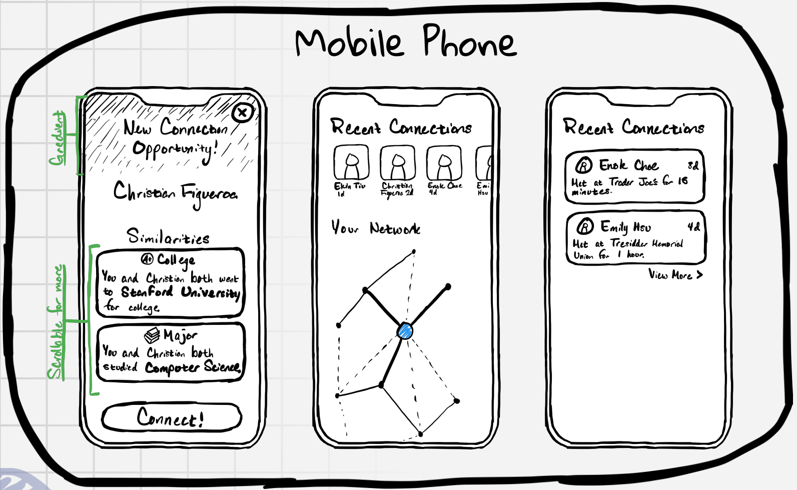

Your friend is nearby. reconnect?
decline request
message friend
share location
Your Memories

Audio

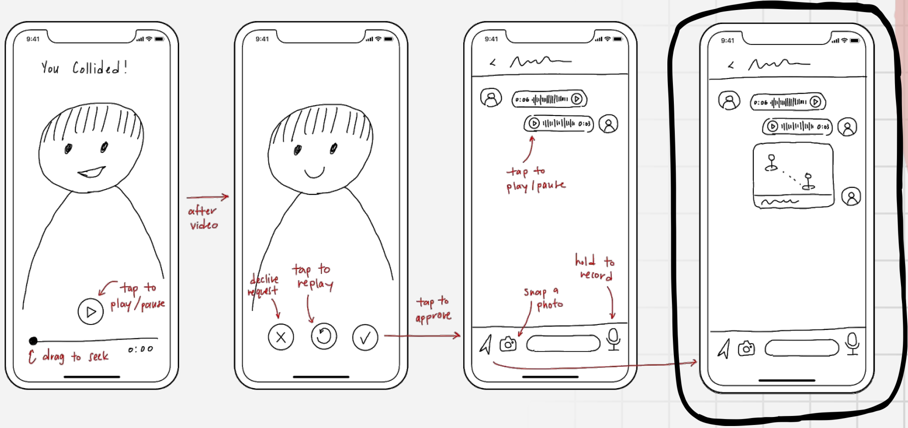

New connection!
Hi! my name is ...
New Connection!

Choosing a Modality

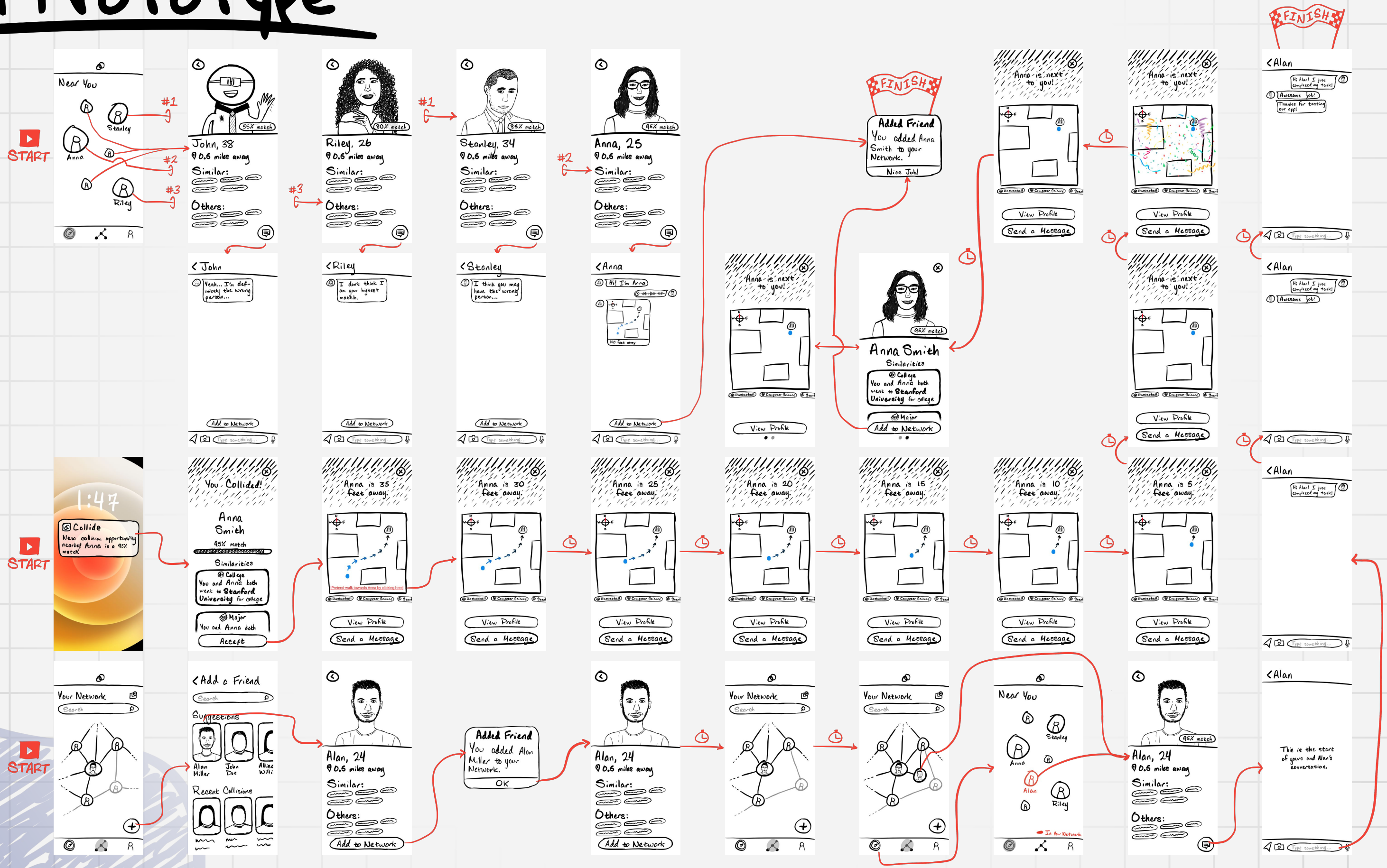
Mobile Phone


Gradient
Scrollable for more
New Connection Opportunity!
Christian Figueroa
Similarities
College
You and Christion both went to Stanford University for college.
Major
You and Christion both studied Computer Science
Connect!
Recent Connections
Ekin Tiu 1d
Christian Figueroa 2d
Enok Choe 4d
Emi Hsu
Your Network
Recent Connections
Enok Choe 3d
Met at Trader Joe's for 15 minutes.
Emily Hsu 4d
Met at Tresidder Memorial Union for 1 hour.
View More >

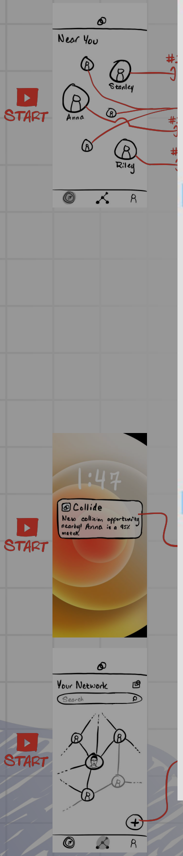
Audio

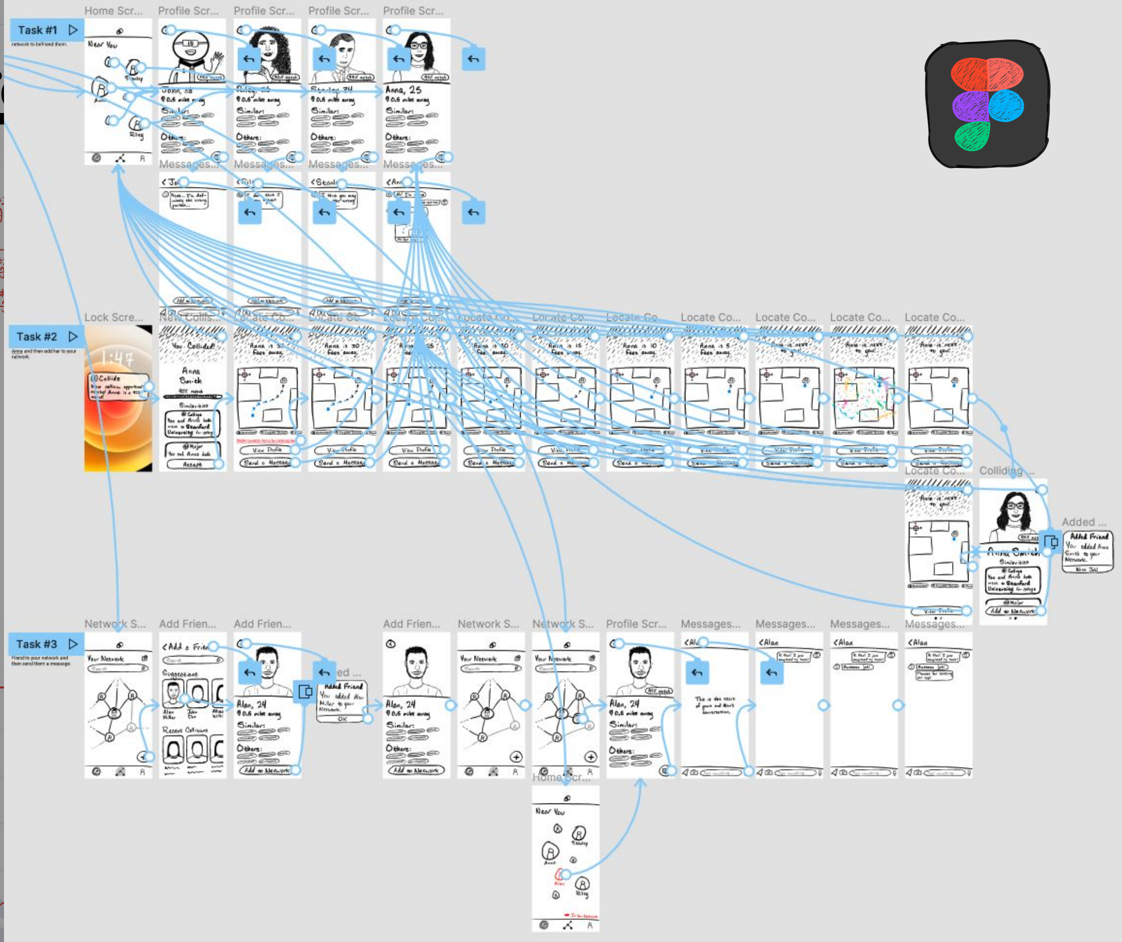

9:41
You Collided!
tap to play / pause
drag to seek
0:00
after video
decline request
tap to replay
tap to approve
0:06
0:03
tap to play / pause
snap a photo
hold to record

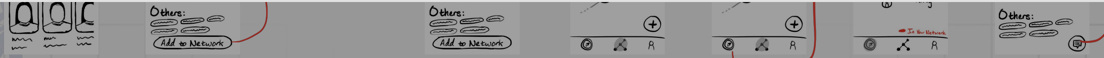
Final Prototype

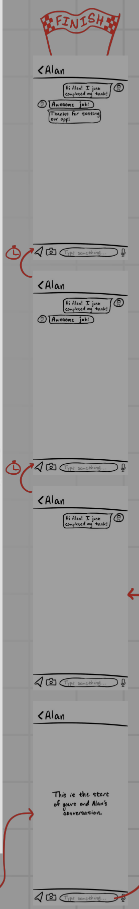

START
Near You
Stanley
Anna
Riley
#1
#2
#3
John, 38
0.5 miles away
Similar:
Others:
55% match
Riley, 26
80% match
Stanley, 34
85% match
Anna, 25
95% match
< John
< Riley
< Stanley
< Anna
Hi! I'm Anna
Add to Network
FINISH
Added Friend
You added Anna Smith to your Network.
Nice Job!
Anna is next to you!
View Profile
Send a Message
Anna Smith
Similarities
College
You and Anna both went to Stanford University for college
Major
< Alan
Hi Alan! I just completed my task!
Awesome job!
Thanks for testing our app!
START
1:47
Collide
New collision opportunity nearby! Anna is a 95% match
You Collided!
Anna Smith
95% match
Accept
Anna is 35 feet away.
Anna is 30 feet away.
Anna is 25 feet away.
Anna is 20 feet away.
Anna is 15 feet away.
Anna is 10 feet away.
Anna is 5 feet away.
START
Your Network
Search
< Add a Friend
Suggestions
Alan Miller
John Doe
Recent Collisions
Alan, 24
0.5 miles away
Added Friend
You added Alan Miller to your Network.
OK
Alan
This is the start of yours and Alan's conversation.
Type something...

Final Prot


Near You
Stanley
Anna
Riley
START
1:47
Collide
New collision opportunity nearby! Anna is a 95% match
START
Your Network
Search
START

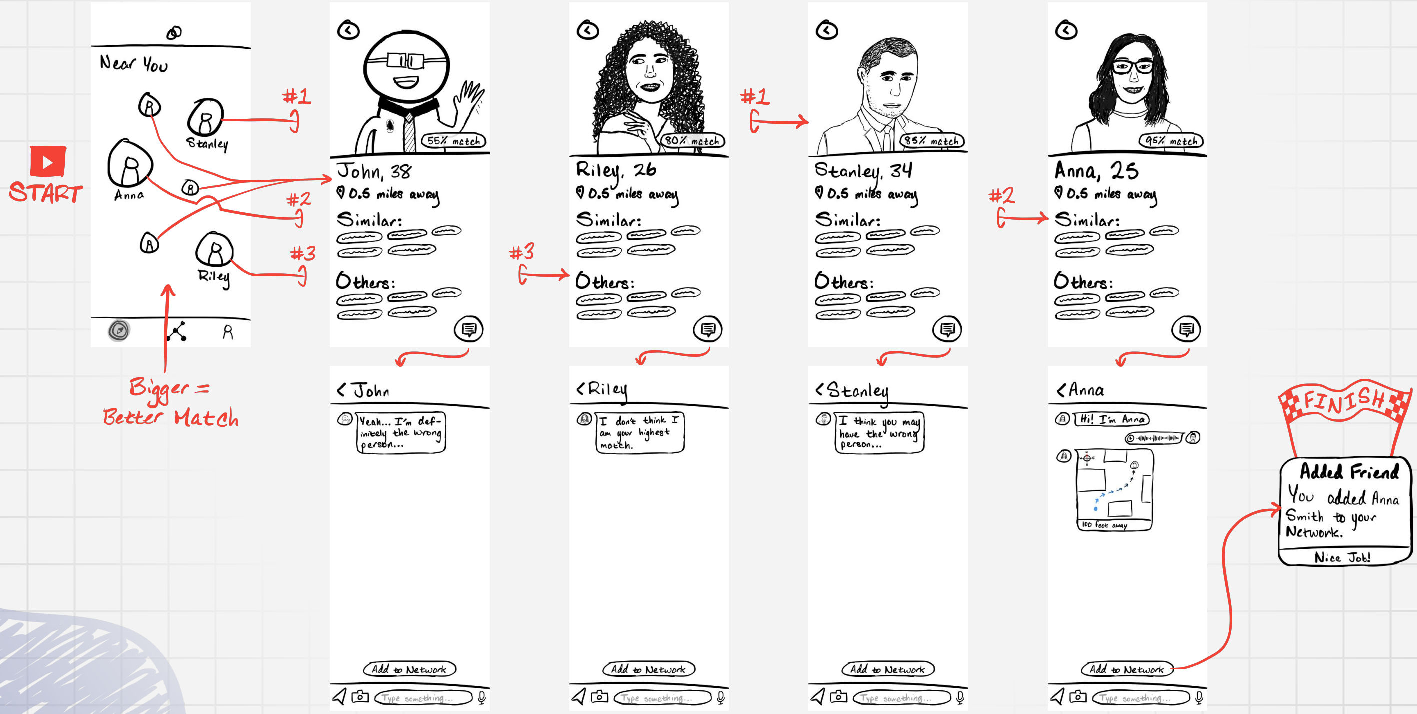

Task #1
network to befriend them.
Home Scr...
Profile Scr...
Profile Scr...
Profile Scr...
Profile Scr...
Near You
John, 58
Anna, 25
Stanley, 34
0.5 miles away
Similar:
Others:
Messages...
Messages...
Messages...
Messages...
Task #2
Anna and then add her to your network.
Lock Scre...
New Collis...
Locate Co...
1:47
Collide
You Collided!
Anna Smith
95% match
Similarities
Accept
View Profile
Send a Message
Colliding ...
Added ...
Added Friend
Task #3
friend to your network and then send them a message.
Network S...
Add Frien...
Add Frien...
Add Frien...
Network S...
Network S...
Profile Scr...
Messages...
Messages...
Messages...
Messages...
Home Scr...
Your Network
Search
Add a Friend
Suggestions
Alan, 24
Add to Network


Others:
Add to Network
Others:
Add to Network
Others:


FINISH
<Alan
Hi Alan! I just completed my task!
Awesome job!
Thanks for testing our app!
<Alan
<Alan
<Alan
This is the start of yours and Alan's conversation.

Task #1: Simple

Befriend someone near you with similar interests.


START
Near You
Stanley
Anna
Riley
#1
#2
#3
Bigger = Better Match
55% match
John, 38
0.5 miles away
Similar:
Others:
80% match
Riley, 26
0.5 miles away
Similar:
Others:
#1
85% match
Stanley, 34
0.5 miles away
Similar:
Others:
#2
95% match
Anna, 25
0.5 miles away
Similar:
Others:
< John
< Riley
< Stanley
< Anna
100 feet away
Add to Network
Type something...
FINISH

Yeah... I'm definitely the wrong person...

I don't think I am your highest match.

I think you may have the wrong person...

Hi! I'm Anna

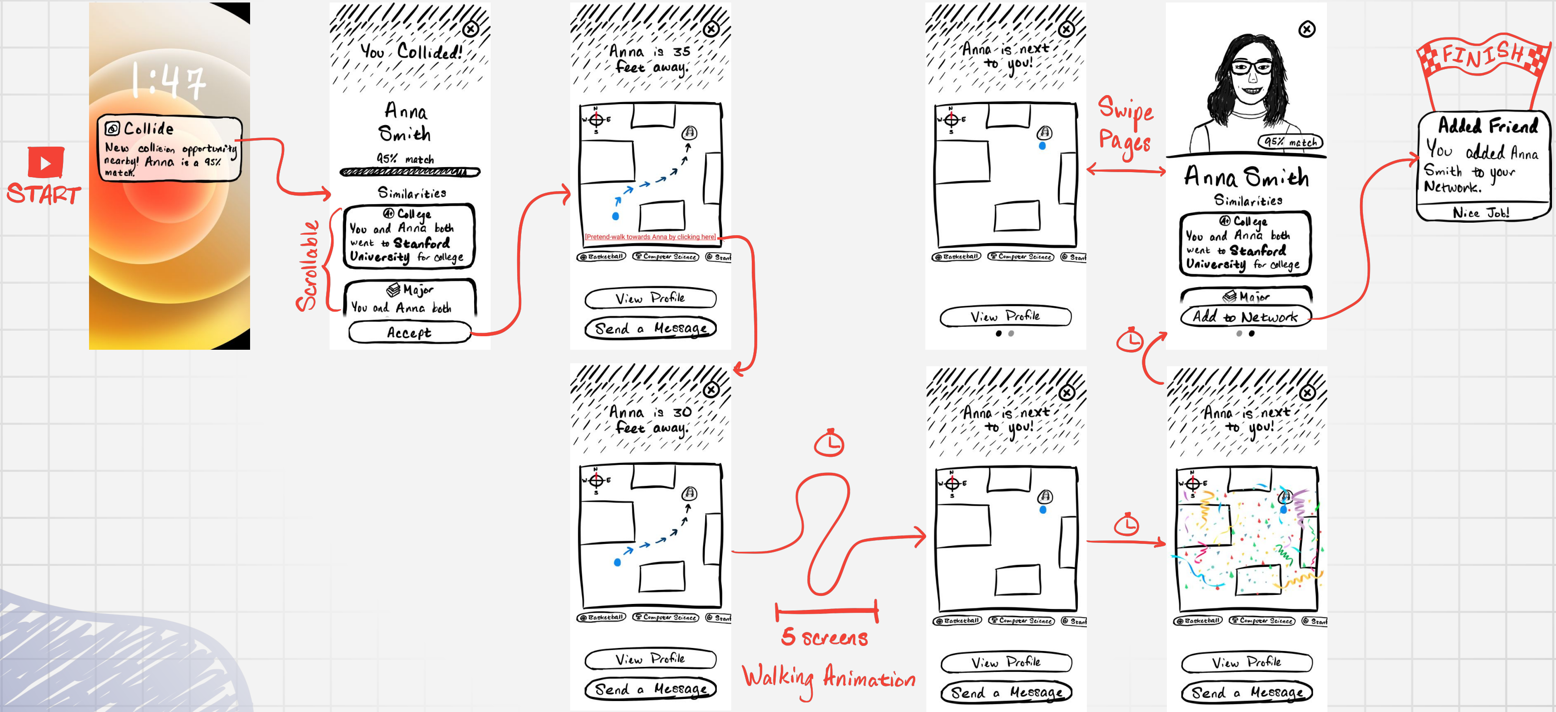
Added Friend

You added Anna Smith to your Network.

Nice Job!

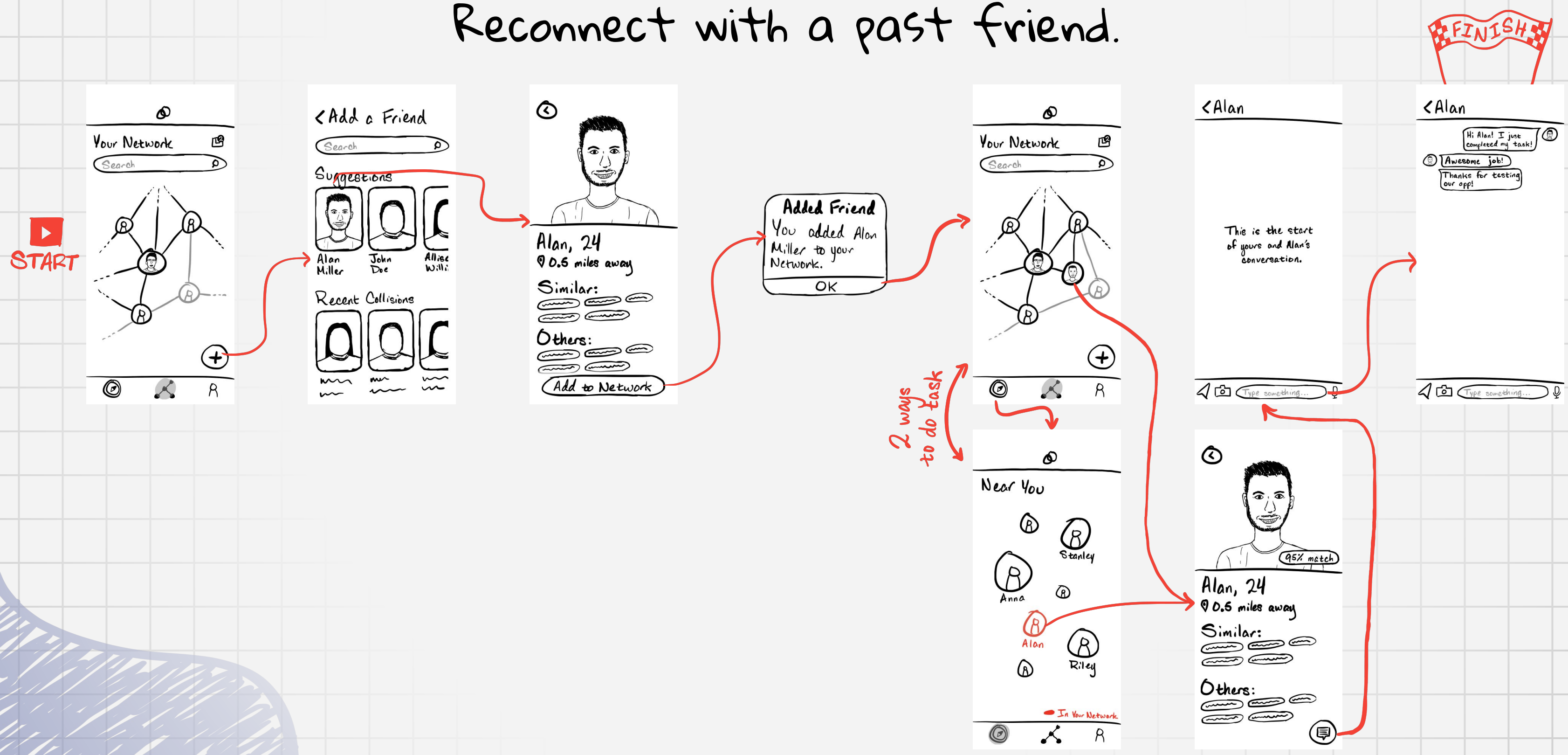
Task #2: Moderate

Start a conversation with someone in person.


START
1:47
Collide
New collision opportunity nearby! Anna is a 95% match.
You Collided!
Anna Smith
95% match
Similarities
College
You and Anna both went to Stanford University for college
Major
You and Anna both
Accept
Scrollable
Anna is 35 feet away.
[Pretend-walk towards Anna by clicking here]
Basketball
Computer Science
View Profile
Send a Message
Anna is 30 feet away.
5 screens
Walking Animation
Anna is next to you!
Swipe Pages
95% match
Anna Smith
Add to Network
FINISH
Added Friend
You added Anna Smith to your Network.
Nice Job!

Task #3: Complex

Reconnect with a past friend.


START
Your Network
Search
< Add a Friend
Search
Suggestions
Alan Miller
John Doe
Allie Willi
Recent Collisions
Alan, 24
0.5 miles away
Similar:
Others:
Add to Network
Added Friend
OK
Your Network
Search
2 ways to do task
Near You
Stanley
Anna
Alan
Riley
In Your Network
< Alan
Type something...
95% match
Alan, 24
0.5 miles away
Similar:
Others:
FINISH
< Alan
Type something...

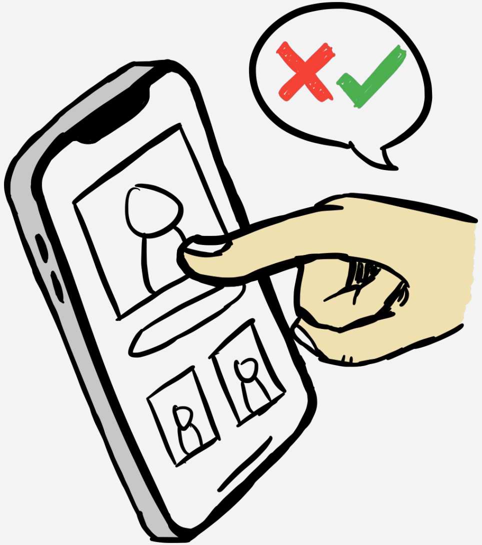
You added Alan Miller to your Network.

This is the start of yours and Alan's conversation.

Hi Alan! I just completed my task!

Awesome job!

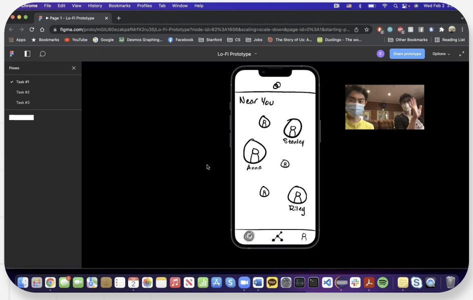
Thanks for testing our app!

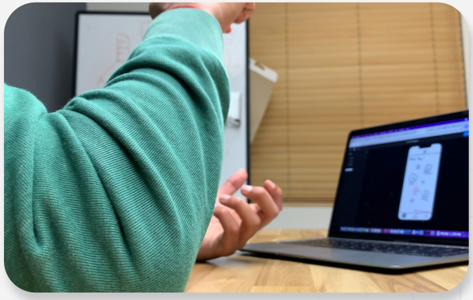


Testing

Experimental Method

- Conducted in person or over Zoom
- Both engineering and non-engineering backgrounds
- Used Figma for handling user interaction
- One facilitator and one note taker, shared notes as group


Lo-Fi Prototype
Task #1
Task #2
Task #3
Share prototype
Near You
Anna
Riley



Our Interviewees

Esha

UC San Diego
Economics Student

Jasper

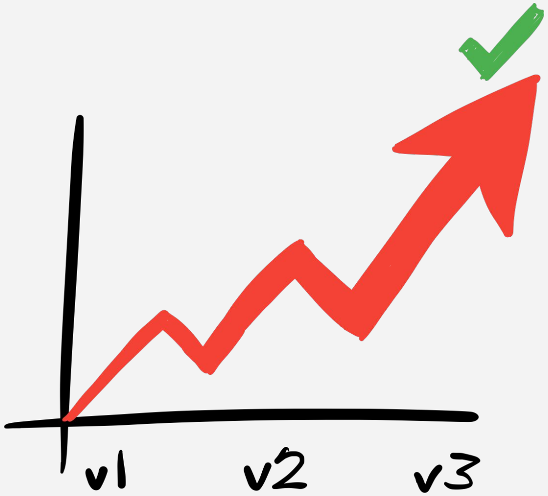
Stanford
CS Student

Yasmine

Sheridan College
Design

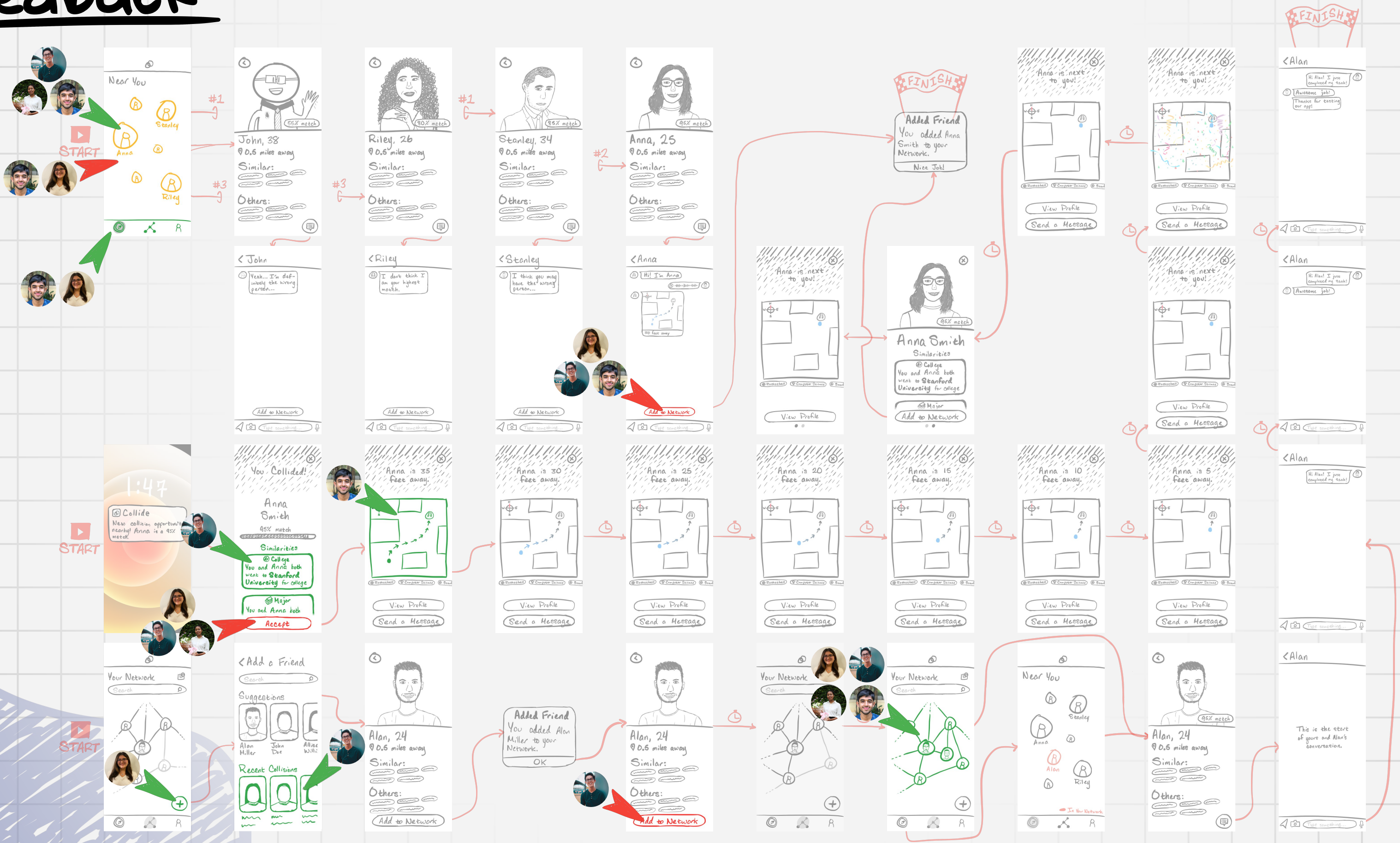
Vrishab

Valar Labs
Engineer

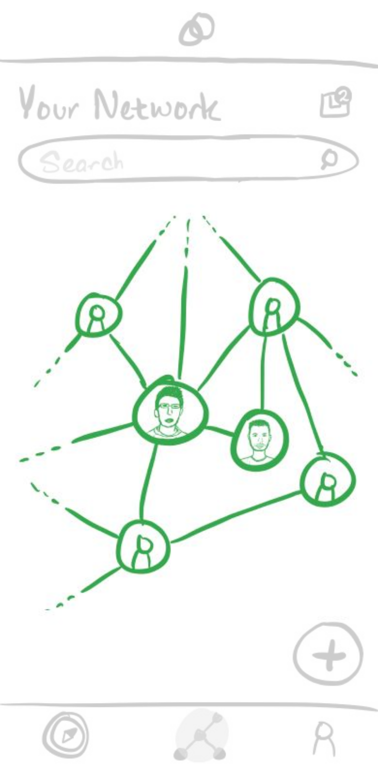


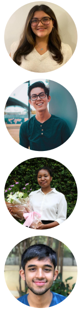
Improving

Feedback


START
Near You
Stanley
Anna
Riley
#1
#3
#2
John, 38
0.5 miles away
Similar:
Others:
55% match
Riley, 26
80% match
Stanley, 34
85% match
Anna, 25
95% match
< John
Yeah... I'm definitely the wrong person...
< Riley
I don't think I am your highest match.
< Stanley
I think you may have the wrong person...
< Anna
Hi! I'm Anna
Add to Network
Type something
FINISH
Added Friend
You added Anna Smith to your Network.
Nice Job!
Anna is next to you!
View Profile
Send a Message
< Alan
Hi Alan! I just completed my task!
Awesome job!
Thanks for testing our app!
Anna Smith
Similarities
College
You and Anna both went to Stanford University for college
Major
1:47
Collide
New collision opportunity nearby! Anna is a 95% match
You Collided!
Anna Smith
95% match
You and Anna both
Accept
Anna is 35 feet away.
Anna is 30 feet away.
Anna is 25 feet away.
Anna is 20 feet away.
Anna is 15 feet away.
Anna is 10 feet away.
Anna is 5 feet away.
Your Network
Search
< Add a Friend
Suggestions
Alan Miller
John Doe
Recent Collisions
Alan, 24
Added Friend
You added Alan Miller to your Network.
OK
Alan
In Your Network
This is the start of yours and Alan's conversation.

Feedback


Your Network
Search



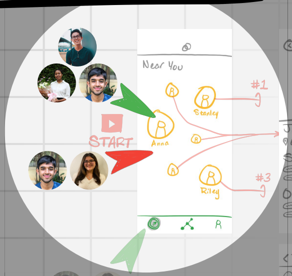
Comments:

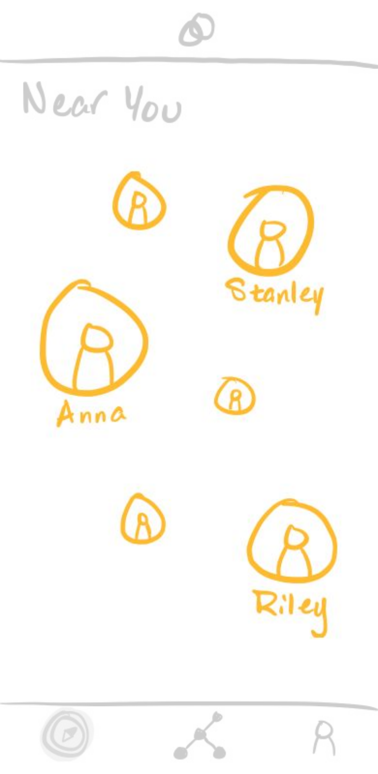
Everyone liked the networking graphic.

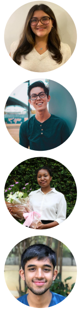
Improvements:

Flesh out the networking map even more to make it interactive (e.g., scroll, zoom, etc.).

Feedback


Near You
#1
Stanley
Anna
START
Riley
#3


Near You
Stanley
Anna
Riley



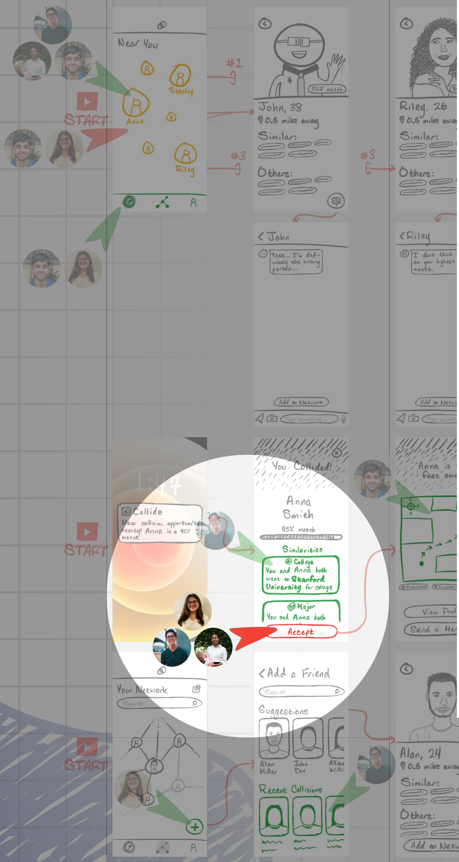
Comments:

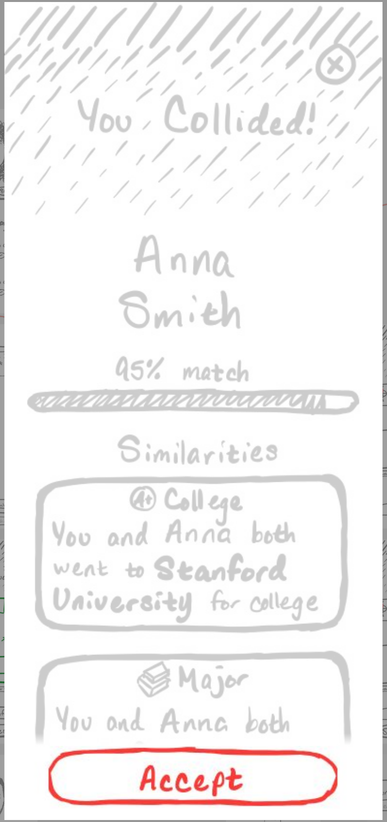
Most found the bubble sizes intuitive, but wanted it to be more map-like.

Improvements:

Keep the bubble sizes, make it clear how far people are from you.

Feedback




You Collided!
Anna Smith
95% match
Similarities
College
You and Anna both went to Stanford University for college
Major
You and Anna both
Accept

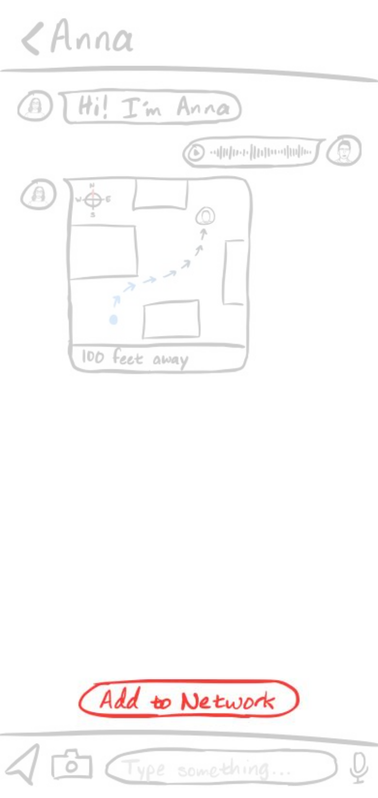
Comments:

Most thought the "Accept" button was confusing and didn't realize it would share location.

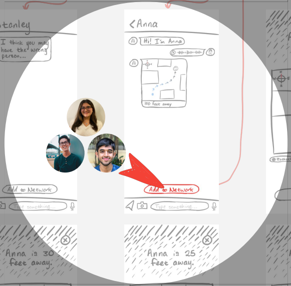
Improvements:

Change the wording and add more options (e.g., "Share Location", "Chat")

Feedb



< Anna
Hi! I'm Anna
100 feet away
Add to Network
Type something...



< Anna
Add to Network
Anna is 25 feet away.

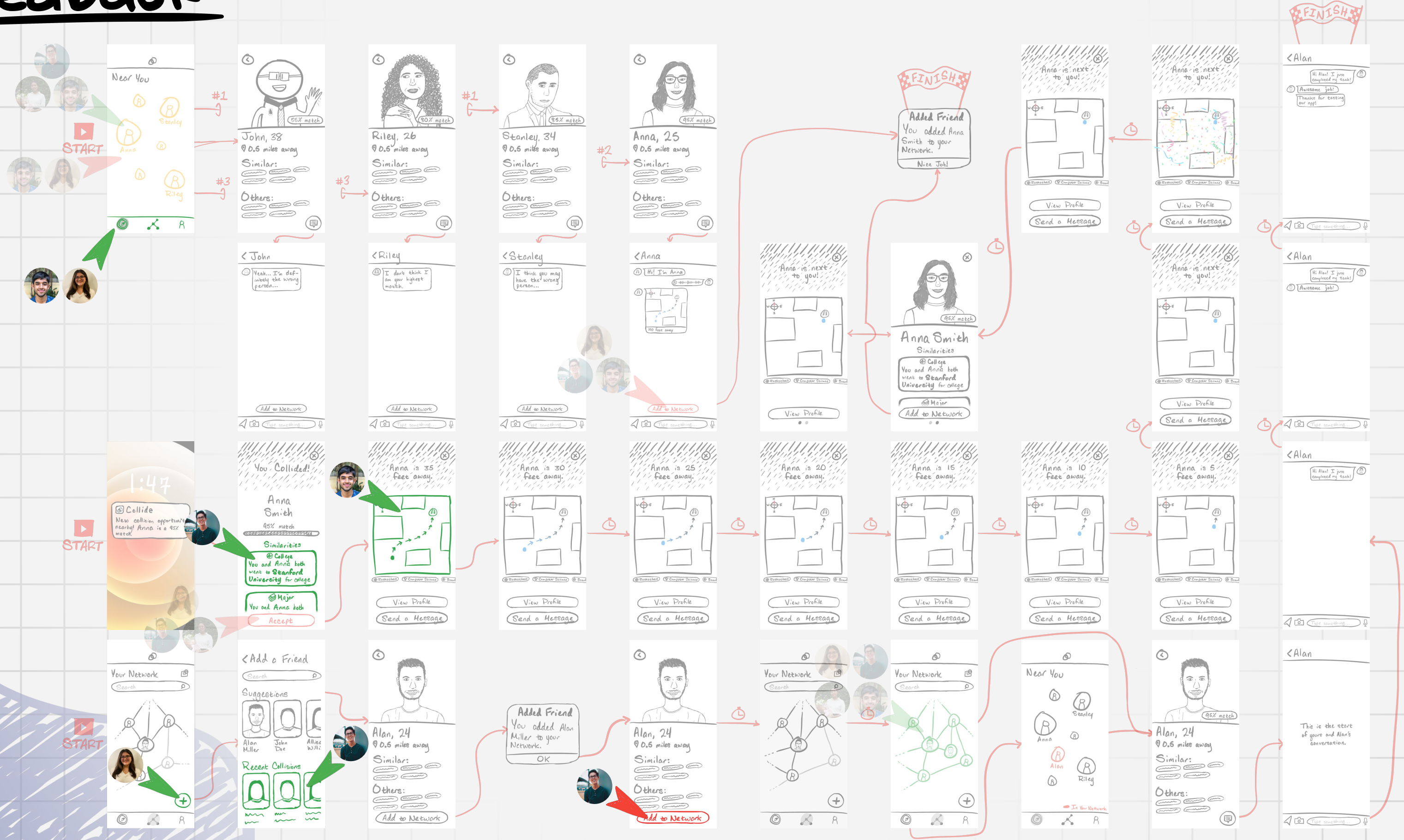
Comments:

Most wanted the "Add to Network" button on the Profile page instead of Messages.

Improvements:

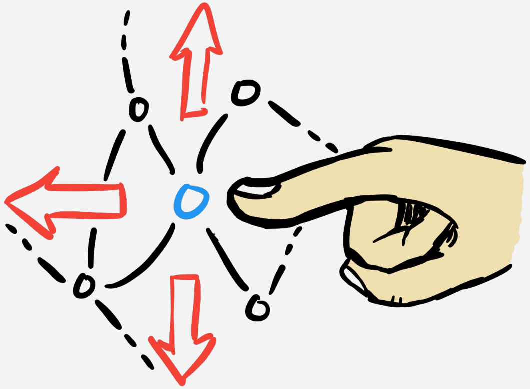
Add that option to the Profile page as well so it's easier to find.

Feedback


START
START
START
FINISH
FINISH
Near You
Stanley
Anna
Riley
#1
#2
#3
John, 38
0.5 miles away
Similar:
Others:
Riley, 26
Stanley, 34
Anna, 25
55% match
80% match
85% match
95% match
< John
< Riley
< Stanley
< Anna
Add to Network
Type something
Added Friend
You added Anna Smith to your Network.
Nice Job!
Anna is next to you!
View Profile
Send a Message
Anna Smith
Similarities
College
You and Anna both went to Stanford University for college
Major
Add to Network
< Alan
Hi Alan! I just completed my task!
Awesome job!
Thanks for testing our app!
1:47
Collide
New collision opportunity nearby! Anna is a 95% match
You Collided!
Anna Smith
95% match
Similarities
College
You and Anna both went to Stanford University for college
Major
You and Anna both
Accept
Anna is 35 feet away.
Anna is 30 feet away.
Anna is 25 feet away.
Anna is 20 feet away.
Anna is 15 feet away.
Anna is 10 feet away.
Anna is 5 feet away.
Your Network
Search
< Add a Friend
Suggestions
Alan Miller
John Doe
Allie Willi
Recent Collisions
Alan, 24
0.5 miles away
Added Friend
You added Alan Miller to your Network.
OK
Near You
Alan
Stanley
Riley
Anna
In Your Network
This is the start of yours and Alan's conversation.

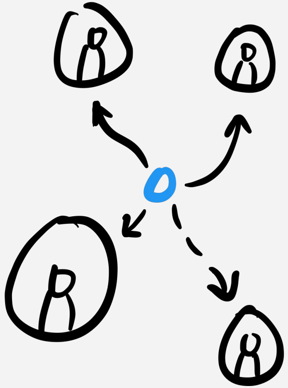
Summary of Improvements

- Make the Networking map more interactive



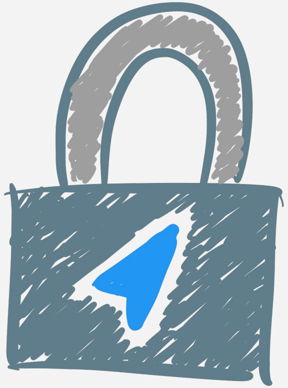
Summary of Improvements

- Make the Networking map feel more interactive
- Improve the structure of the Near You page



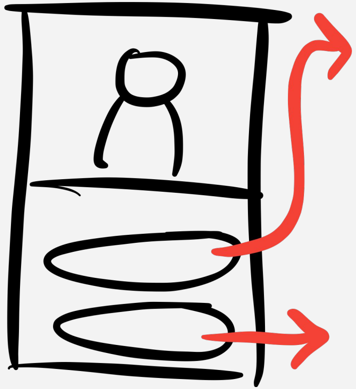
Summary of Improvements

- Make the Networking map feel more interactive
- Improve the structure of the Near You map
- Make location sharing feel more secure



Summary of Improvements

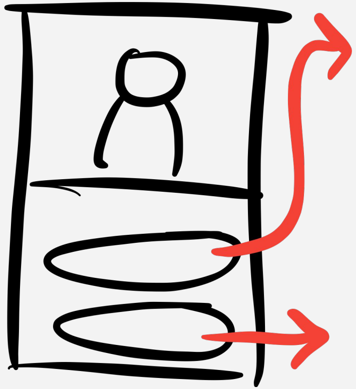
- Make the Networking map feel more interactive
- Improve the structure of the Near You map
- Make location sharing feel more secure
- Make it easier to navigate the app



THANK YOU

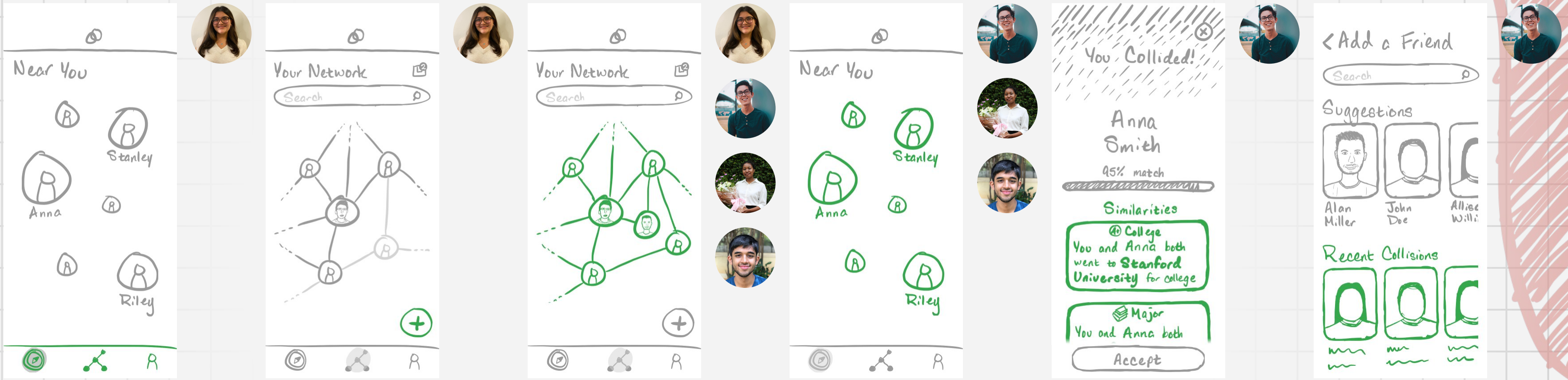
Summary of Improvements

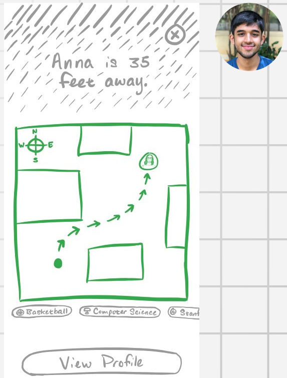
- Make the Networking map feel more interactive
- Improve the structure of the Near You map
- Make location sharing feel more secure
- Make it easier to navigate the app



THANK
YOU

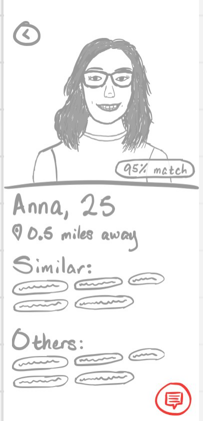
Things We Did Right

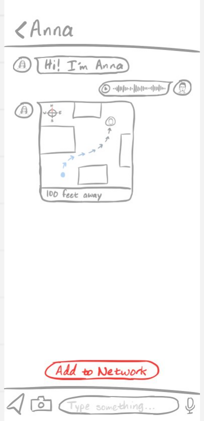


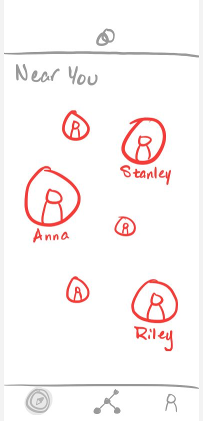

Near You
Stanley
Anna
Riley
Your Network
Search
Your Network
Search
Near You
Stanley
Anna
Riley
You Collided!
Anna Smith
95% match
Similarities
College
You and Anna both went to Stanford University for college
Major
You and Anna both
Accept
< Add a Friend
Search
Suggestions
Alan Miller
John Doe
Allise Willi
Recent Collisions
Anna is 35 feet away.
Basketball
Computer Science
Stanf
View Profile

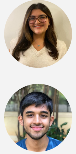
Liked that there were two ways to do Task #3

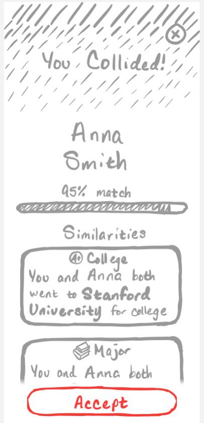
Things We Can Improve

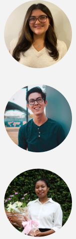

95% match
Anna, 25
0.5 miles away
Similar:
Others:

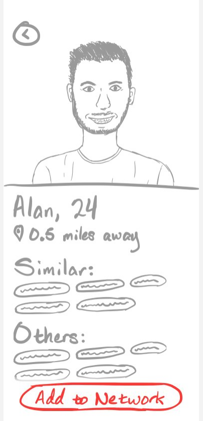

Anna
Hi! I'm Anna
100 feet away
Add to Network
Type something...


Near You
Stanley
Anna
Riley

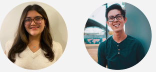



You Collided!
Anna
Smith
95% match
Similarities
College
You and Anna both went to Stanford University for college
Major
You and Anna both
Accept




Alan, 24
0.5 miles away
Similar:
Others:
Add to Network

Require permission for adding to network



See Match score before adding to network (#3)

See Match Score on Near You page

More specific directions

See similarities before you get to Anna

Add names to Network (#3)