## V



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## Problem Statement

For many years, some people miss
hanging out with a friend or a loved
one because they moved away.
They would miss the presence,
atmosphere, and environment of
being with them. Ever since the
pandemic of last year, it now affects nearly everyone. My solution to this is to emulate being together again virtually using just a smartphone.

I asked 10 people

## When was the last time you had fun?



## Interviews

I asked 10 people, "When was the last you had fun?" using who, what, when, where, why, and how to get a detailed responded.

Interviews were conducted between February 1 and February 3, 2021.

Person 1
What
How
Wh

Where

When internet mobile app. and phone.

Playing "Dungeons and Dragons" with acquaintances over the

In a Discord voice call and playing using a

Himself and 4 others people. All are in the U.S. except one.

All were at home in front of their computer

Last Saturday (1/30) 3 to 6:30pm.

Duration
During

Why
3.5 hours.

No breaks. Occasionally drank water

Played as a de-stressor from school and life.

Build people skills.
Get inspiration for his writing

Person 2

Sees a duck at the park and tries to play with it.

Tries to walk towards
to duck.

Herself and her boyfriend.

At a park in San José

Last Sunday (1/31)
Betwwen 3 and 4pm
30 minutes
Talking with her boyfriend.

Feel stress-free

Wanted to be outside
because she's always indoor.

Wanted to feel like a kid again.

Person 3

Hiking with a friend.

Drove with her friend to the park

Herself and her friend

Mission Peak, Fremont.

Last Saturday (1/30) afternoon.

2 hours
Talked about what has happened in the past year.

First time going hiking since the pandemic started.

Wanted her see an old friend in person.

Wanted to exercise


|  | Person 9 | Person 10 |
| :---: | :---: | :---: |
| What | Vacation to Asia with family. | Playing Dungeons and Dragons online with friends. |
| How | Flew. | Discord call. Used a website on their computer called "role20" to play. |
| Who | Him and his family. | Herself and 3 friends. |
| Where | South Korea and Hong Kong. | At home in front of a computer. |
| When | Before pandemic. | Near the end of winter break 2021. |
| Duration | Couple of weeks | Few hours. Lost track of time. |
| During | Sight-seeing, meeting relatives he never met. | Laughing, being creative, role playing. |
| Why | Enjoys going to trips (road trips or flying). | Prefers role playing over combat. |
|  | Reconnect with family is fun. | Wanted to host a D\&D game for the first. |
|  | Forget about the bad things in the past and live in the moment. | Fulfilling a goal was fun. |

## Synthesis

## Clustering

After conducting all 10 interviews, I noticed some patterns within their responses. I clustered majority of the responses and choose 4 responses per category that best suits the category.

## Gathering

Person 1
Himself and 4 other. people. All are in the U.S. except one.

Person 2
Herself and her
boyfriend.
Person 5
Him and his 6 friends.
Person 7
Herself, family, and relatives. 10 people total.


Distancing

Person 1
All were at home in
front of their computer and phone.

Person 4
At home, mostly in her bedroom.

Person 7
At home in their living
room.

Person 10
At home in front of a computer.

Online

## Person 1

In a Discord voice call and playing using a mobile app.

Person 7
Everyone where in a
zoom call with
webcams on

Person 8
Discord voice call.
Played on their
computers.
Person 10
Discord call. Used a
website on their computer called "role20" to play.

## Synthesis

## Themes

After categoring their responses, the definition of their themes can be determined and their reasonings become obvious.

## Gathering

Majority of the interviewee said that in order to have fun, they have to enjoy it with one or more people.

## De-stresser

Everyone had to deal with school and/or work. Being away from school or work allows them to relax and enjoy the moment.

## Long Lasting

Having fun usually take hours, even days. Some lost track of time because they were too busy having fun

Distancing
Over half of the interviewees had fun at the comfort of their home.

## Online

Due to a pandemic, being in a call over the interview was a common way to connect with friends.

## Behavior \& Needs

After having noticing these patterns in my research, their behavior and needs come more apparent. This is the final step before coming up with app ideas.

- Behavior
$\square$ Needs

People play games together
to accomplish something together.

People communicate over the internet to feel less lonely at home.

People vocally speak to friends in person or online to relieve stress.

People enjoys going on vacation to forget the past.

People take risks together to try something new.

People enjoy every second together in person because the pandemic separated each other.

## Brainstorm

Nostalgia App
Nostalgia app that makes you feel like
a kid again by displaying old websites,
images, videos, and songs you might
or might not remember and even
taking quizzes on them.

AR Sports/Activities
Virtually play sports activities such as ping pong, table hockey, and even beer pong with friends or strangers online. Move your phone to adjust you point of view and use the appropriate tap or gesture.

Drawing with Daily Challenges Social app that creates a theme every day and you get to create a simple drawing or story and people get to vote on the best one

AR Video Calling
Be in a virtual room with friends or with strangers. With AR, the user can move around with their phone to see the people around them.

Inspiration: Omegle, VRChat, Discord

## Introducing

## vace

virtual + space = vace

AR video calling app that allows you to hang out with friends or with new people in a virtual room.

## App Features

## AR View

Move phone around to see everyone in the room. Option to turn off AR and choose to swipe to rotate.

## Stereo Audio

Audio will line will align with point of view. If someone is more to the right, audio will be louder on the right speaker/headphone.

## Wide Selection of Rooms

Ability to choose a type of room, such as bedroom, living room, and even a movie theater.


## Media Share

Each room has a virtual screen and virtual speaker where anyone can share photos, play videos from



## User Persona



Name: Scarlett Lever

Demographic
Age: 18
Gender: Female
Occupation: Student
Location: Santa Cruz, CA

## Bio

She is freshman at UCSC, majoring in business. She still lives with
parents. She is not in a relationship She has a dog. She also works parttime at a coffee shop. During her free time, she likes to read books, cook, drawing, watch shows, and paint. She loves hanging out with 3 of her closest friends she met in high school. Normally, they would meet up in person every Friday night.

## Personality

- Social butterfly
- Ambitious
- Creative

Needs

- Needs of socializing
- Wants to hang out with friends in person without restrictions.
- Wants to watching videos and talk with friends in the same room.


## Frustrations

- The pandemic/COVID restrictions has disconnected them.
- Tired of feeling alone.


## Storyboard (Draft)



Scarlett is an 18 -year-old college student who misses the days where she and her friends would hang out every Friday at one of their houses.


She rotates her phone landscape and moves her phone around to see everyone. They talked for 15 minutes, catching up with that was happening in their life.


One Thursday evening, she learns that she is finally free on Friday. She decides to set up a meet up with friends on Friday using the AR video calling app.


To lighten up the mood, she links her Spotify account and plays a playlist on the virtual speaker.
Wanna trythis
app tmr night?

## Sure! <br> Sounds fun!

She texts she friends and asked his everyone wants to get on the app together Friday night. Everyone approves.


After talking and listening to music together for 45 minutes, she and her friends begin sharing photos and videos on the virtual TV screen.


On Friday night, she creates a private virtual room with her friends. She picks a spot in the virtual room to sit and activates her selfie camera.

## Wanna go again <br> next Friday?

Absolutely!
Yes!
Yay!

20 minutes after talking and sharing, they decide to end the meeting and schedule another session next Friday, same time.

## Storyboard (Final)



Scarlett is an 18 -year-old college student who misses the days where she would hang out with her friends every Friday. This changed when they started to use "Vace," an AR video calling app.


She moves her phone around to see everyone. They talked for 20 minutes, catching up with that was happening in their life.


One Thursday evening, she learns that she is finally free on Friday. She wants to set up a virtual meet up with friends on Friday using the app Vace.


To lighten up the mood, she links her Spotify account and plays a playlist on the virtual speaker.

## Wanna get on vace <br> tomorrow night?

Yes! It's been a while 웅

Yo I'm down
Heck yes!!!
She texts her friends and asks if they want to get on Vace together Friday night. Everyone approves.


Moments later, she and her friends begin sharing photos and video on the virtual TV screen. One of them adopted a dog recently so she showed many photos and video.


On Friday night, she creates a private virtual room with her friends. She picks a spot to sit in the virtual room.


After seeing their dog photos and video, they decided to meet up in the real life the next day with their dogs and went to a dog park.

## Low Fidelity Wireframes

Home Page


Create Room


Waiting Room
$<$
Waiting Room
Joined

| Username (Host) | Status |
| :--- | :---: |
| Username (Guest) | Status |
| Username (Guest) | Status |
| Username (Guest) | Status |

Select Seat
Seat

## Low Fidelity

## Wireframes

Home Page


Create Room


## High Fidelity Wireframes

I asked 10 people, "When was the last you had fun?" using who, what, when, where, why, and how to get a detailed responded.

OS: Android
Style: Material Design (Dark)
Phone: Samsung Galaxy S10

Home Page


Profile button, message, notifications, and search.

See active friends or view all your friends.

Four quick options a user might want to do in the app.

Go to public rooms suggested by popularity or previous visited rooms.

Home button, create a public or private room, join a public room, browse public rooms,

Create Room


Swipe to browse through the rooms.

Press preview to go into fullscreen AR view.

Make room private or public.
Allow/disallow guests from sharing their media.

Add friend from your list or add anyone by searching username.

Save for later or go to waiting room.

## Waiting Room




## Prototype

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