

# Peekaboo!

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Check in with loved ones — while having fun!

CS147 Fall 2022 Jason, Derek, Karson, Winston

#### Team Presentation

Maldives



Jason Lin Sophomore Last called mom yesterday

Rudolf

50

MtKenia

ATL

Ruwenzar

ad

a

lands



Derek Hwang Coterm Last called family earlier today

60



Karson Lippert Senior Last called family 2 days ago

28282

80



apan

hina Sea

Formo

East

Celebes

**Winston Shum** Senior Last talked with parents today

13700/

Borneo 120

## Problem

# Solution

People cannot check up on others in an

easy manner without being intrusive

PACL

Upload a picture or tap a button to

instantly share updates to all family/close

friends on a widget

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quateur

Soychelles (A)

# Value Proposition

## Share photos and send updates to family and close friends for a *simple check in*



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I. da Prince Edenard

OC

PACI

## **Outline of Presentation**

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Harris I. de la Passes

I. du Prince Edenard

- 1. Concept sketches and selected interface
- 2. Our low-fi prototype

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- 3. Testing our low-fi prototype
- 4. Results and discussion



# Concept Sketches and Selected Interface

1527

Reylejan

Exploring designs and narrowing down...



Tropic of Cancer



#### **Concept Sketches Overview**

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to Harry the Haward .

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Chin

Pure Chick It-R

or

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PACI

Archipe ses Chono Pen<sup>lo</sup>

L.Camo

G. S. Georges

de Trai Punta

PErzán



1 de Prince Edward

B. H. Count I do to Proceeding

Suardafui

Equateur

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. L. Traniel

Iles Mascaceign

#### Fleshed Out Realization #1

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H.Im

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L.Cam

G. St Georgen

C. d. Tra Printer

PACH

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Pros		Cons	
*	App opens on check-in page Power users can edit photos	*	Can't see specific content on widget, only text-based information Too many buttons on home screen

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Desert

I. de Prince Edward ...

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Suardafui

Equateur

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L'Arrendin Mascareign

Y. Maha

#### Fleshed Out Realization #2

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CSojad



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Pros		Cons	
*	Multiple levels of checking in Can see various types of content on widget	*	App opens on feed page that displays content shared with you instead of check in page Have a lot
			more different screens to navigate to

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Desert

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Suardafui

Equateur

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#### Why We Chose Realization #2

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## Users want a **check-in** app, not a **photo-sharing** app

- Photo editing doesn't solve any of users needs
- But simple activities can help users check in via a fun way

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#### Why We Chose Realization #2

Reading words on a screen is more
intrusive than a
dynamic display of
photos and games

 Users can easily see what family and friends are doing via photos and games in comparison to a string of texts

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Sevenelles (A)



# 2. Our Low-Fi Prototype

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Reylejaviles

Tropic of Cancer

Bringing idea to reality!



# How We Built Our Low-Fi Prototype

#### **Paper Prototype**

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- $\succ$  Used red pen and paper
- Drew real dimensions of a phone on paper

#### Interactions

 Users simulate movements of tapping, swiping to access different screens, setting sliders with fingers

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#### **Key Features**

 3 ways to check in: photos, activities, or tapping check in button quateur

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Sevenelles (A)

- Create and choose groups to check in with
- Play and create activities shared by other users or yourself





#### Task Flow (Simple) - Checking in Without Photos

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1. Open app

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Chi P

oc

List

PACL

- 2. Click check-in button on bottom menu bar
- Tap group button on top to choose group(s) to check in
- 4. Confirm check-in



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I da Prince Edward

Soychelles (A)

## Task Flow (Moderate) - Creating Group

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- 1. Open app and click on groups in bottom menu tab
- 2. Press add group button

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List

PACL

- 3. Choose users to add into group
- 4. Press done to finish creating group

G. S. Georges



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Equateur

IS Seychelles (A)

#### Task Flow (Complex) - Making an Activity

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1. Open app and click activity on bottom menu bar

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List

PACL

- 2. Click add button on activities page
- 3. Click activity to add
- 4. Customize activity and press done
- 5. Choose group to share activity with
- 6. Confirm to share activity

G. S. Georges



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Equateur

IS Seychelles (A)



## J. Testing Our Low-Fi Prototype

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Biscay

Morocce

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Sea Julland

Bordeau

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Naples

Tasi

Ahafa

Corsica

How do users vibe with our prototype!

Tropic of Cancer

# Usability Goals

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## Efficient

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- Users can complete simple, moderate, and complex tasks in a timely manner
- Key measurement metric: how long they took to complete a task relative to the other tasks

## Robust

- Users can naturally follow tasks flow with **minimal errors**
- Key measurement metric: how many errors did they make during each task based on a 0-4 scale

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0 = no problem, 4 = usability catastrophe

#### Our Procedure

#### **Our Roles**

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- Karson (Greeter) greeted our participants
- Jason (Facilitator) spoke to users and provided instructions
- Derek (Computer) simulated the response by changing the page users are on
  - Winston (Observer) took notes and recommendations

### **Process Description**

- > Print out various copies of low-fi prototype
- Went around campus and other places near campus to find test users
- If users accepted to do our test, we would either test them on the spot or somewhere they feel comfortable
- Explain what our app is, how to generally interact with the app, and what the tasks are
- Ask users to complete tasks one by one and observe them

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Synthesize results and collect additional thoughts

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IS Soychelles (A)

### **Basic Info:**

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Chis

Chief Ity

or

List

PACI

- > White male in early 20s
- Found at Stanford track and asked him to do a test on the stands of the track

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IS Soychelles (A)

### **Basic Info:**

Chi P

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Arch

G.S. George

- > Asian male, late teens
- > Found at main quad and asked him if he'd test our prototype there

### **Basic Info:**

Chis

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Archi

G. S. Georges

PACI

- Hispanic woman in her 40s
- > Found at Walmart and ran tests directly outside

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IS Soychelles (A)

### **Basic Info:**

Chie

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Arch

S. S. George

PACI

- > Asian women in her early 20s
- > Found at EVGR and ran the test in her room at EVGR



### Results in Numbers

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Based on a scale of 0-4 (0 = no problem at all, 4 = usability catastrophe)

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User #	Simple Task	Moderate Task	Complex Task
1	0	0	2
2	0	0	0
3	0	0	1
4	0	0	2

Summary of Results and Feedback

## Generally, quite easy to follow and use

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PACI

Easy simple and moderate tasks, but completing the complex task often induced minor errors and required our guidance
 Emotions are difficult to categorize on a continuous basis; would prefer discrete variables (i.e. sad, okay, happy, exuberant)

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"I think the emotional scale is hard to quantify on a continuous basis. Instead, it would be easier to follow distinct choices such as sad, okay, feeling good, or feeling great" — Participant 4 Other Relevant Observations and Feedback

Users would use this app

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- iMessage games already exists, so what makes activities on the app more convenient to use?
- Have the ability to swipe through older updates on the main feed homepage

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# Did we achieve usability goals?

### Our usability goals:

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- Completed task in a timely manner
- Naturally follow task flow with minimal errors

(except minor delay for complex task)

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(except minor errors for complex task)

#### Limitations of Our Test

- Only tested users once, so no insight on how users might interact with the app if they used it multiple times
- Lack of color (only red and white) limits our understanding of how users might interact with colors in our design
- Limited sample size (only people within Stanford area)

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Implications and Steps for the Future

- 1. Steps to complete complex task (i.e. create a new custom activity to share) can be shortened
- 2. Easier to define emotions based on a discrete scale rather than a continuous scale
- 3. Implementation of activities must be differentiated from other similar apps such as iMessage games

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4. Address the limitations of our test (i.e. across a broader audience and use more colors in prototype)

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## **THANKS!**

Any questions?

Spitzberge

Snitzheroet

# Appendix.

#### Concept 4 (Chosen Interface)

Pros

OC

PACI

- App opens on the feed section by default
- Mood, activity, and location information all can be added to check-in
- Clear and easy way to send check-in to specific groups
- Adding new groups is obvious and simple
- Swiping from feed page to check-in page is convenient and quick
- Can see everything shared with you through feed page
- Have the option of providing minimal information for simple use case

#### Cons

- Check-in page could feel overwhelming for new users (depends on the demographic of users we target)
- App doesn't open to check-in page (could be con for some)
- Have a lot more different screens that you can navigate to (given the fact that minigames are incorporated)
- Widget might need to be large to fit enough information

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Harris I. da In P.

# Appendix.

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#### Concept 3

Pros

PACI

- Extremely clear how to check in (app opens on check-in)
- Photo editing option is a nice option for power users
- Viewing/adding members to a group is easy
- Easy to click on different groups on the widget
- Easy to take photos and check-in (relatively)

#### Cons

• Can't see specific content on widget

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- Initial screen has many buttons, potentially slowing down users
- Over emphasis of photo components (adding photo to groups)









# Appendix.

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Organized log of critical incidents based on a scale of 0-4 (0 = no problem at all, 4 = usability catastrophe)

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G. S. Goorgen

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User #	Simple Task	Moderate Task	Complex Task
1	0	0	2
2	0	0	0
3	0	0	1
4	0	0	2