

# CSE 323: Group Sketches and Storyboard

## Product Name: Do-Things

Abaya Ranasinghe Mudiyanseelage Sudara Ranasinghe

Htet Naing Phyto

Jong Kwon Park

Spring 2020, Stony Brook University, SUNY Korea

Contact Information:

[abayaranasingh.ranasinghe@stonybrook.edu](mailto:abayaranasingh.ranasinghe@stonybrook.edu)

[htetnaing.phyo@stonybrook.edu](mailto:htetnaing.phyo@stonybrook.edu)

[jongkwon.park@stonybrook.edu](mailto:jongkwon.park@stonybrook.edu)

## Tasks

After the brainstorming section (Please see the appendix for notes), we chose the following three tasks to do sketches on.

1. **Using a recorded macro** - Helpee needs help with an already recorded problem, go into the app, look for it and replay it.
2. **Remote helping with established connection** - Helpee went into the app, allowing the established connection from the helper. And then, wait and see what helper would do on their phone and helper keep them as macro for later uses.
3. **Establishing connection (Remote)** - Helpee and helper establish connection for the first time in remote situations.

*\*We included stars for the interfaces that we agreed as the best.*

## TASK (1) Using a recorded macro: Storyboard (Fixed)

### TASK 1) STORY BOARD, Using a recorded macro

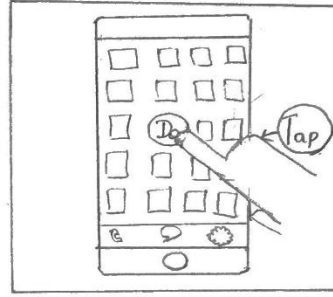
\* macro = repeated actions on smartphones (touch and swipes) which can be recorded and play



1. Helpie forgot how to video call her grandson, and he taught her that last week.



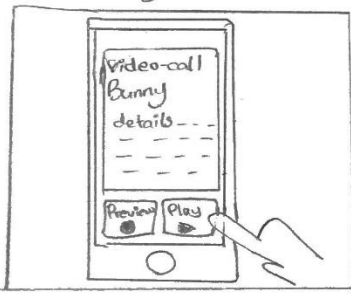
2. She remembers that she can use "Do-things" app. (macro was recorded)



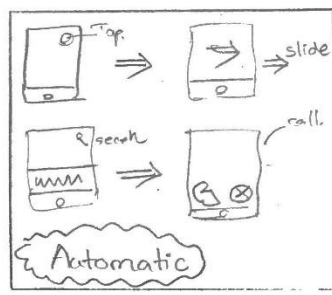
3. Go into Do-things app.



3. search for video-call macro, and found it.



4. Choose play button.  
(To initiate macro process)

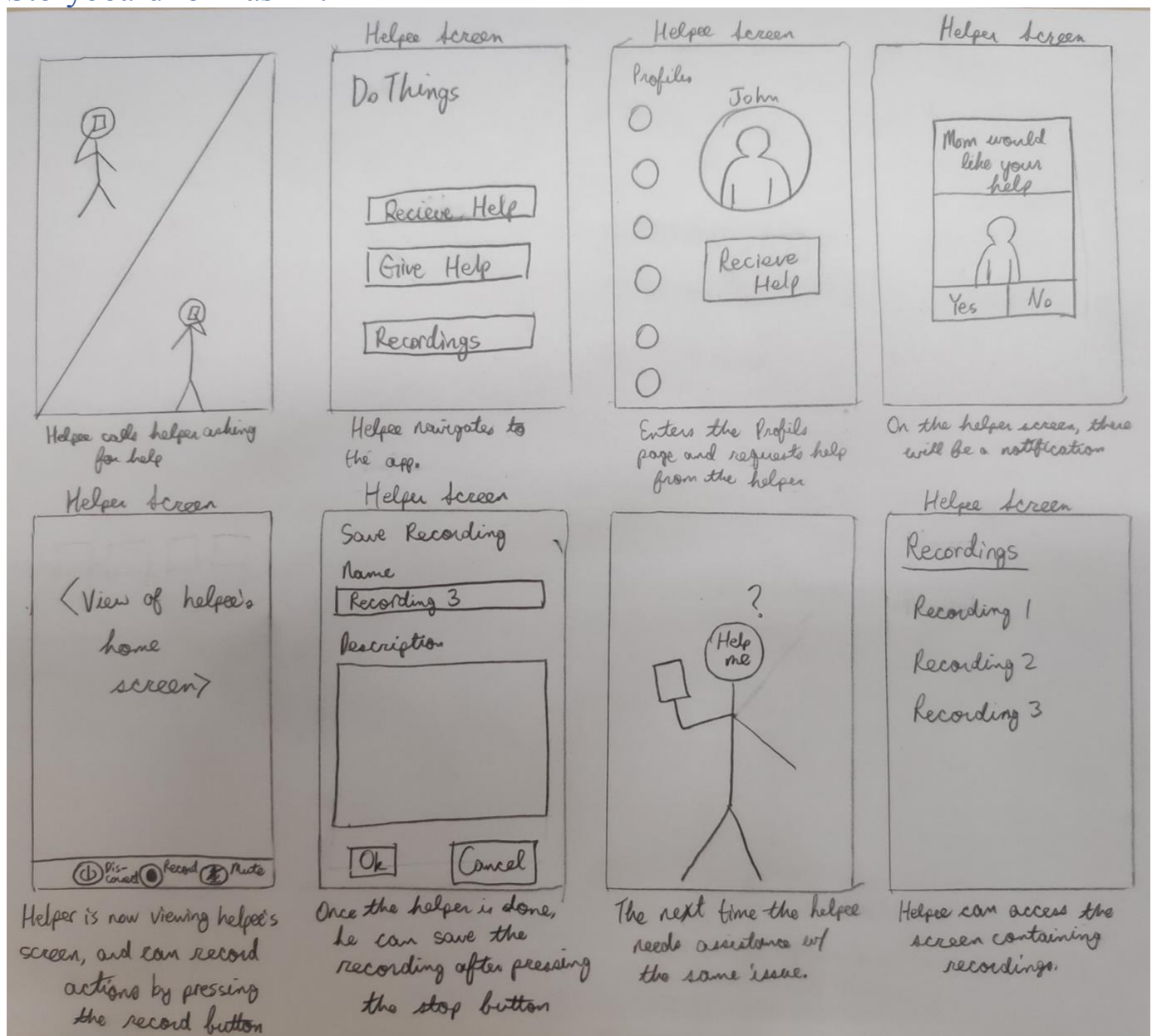


5. Automatically, smartphone goes through steps to video-call her grandson.



6. Now, she is video-calling with her grandson.

## Storyboard for Task 2:



### TASK (3) Establishing connection (Remote): Storyboard

Users:

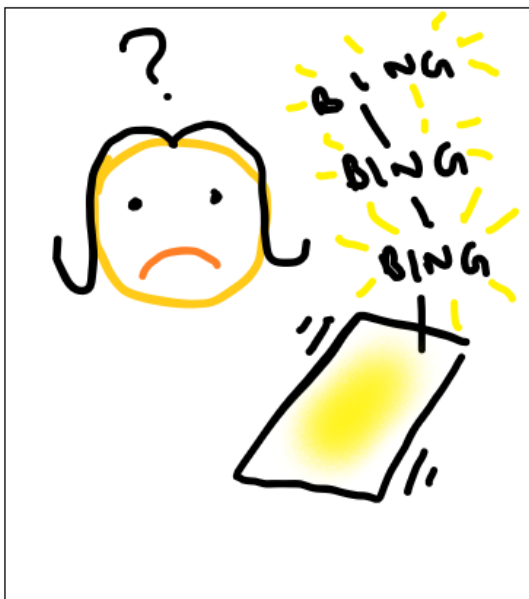
A. Kumari is a stay-at-home mom who has recently started to use a smartphone. She is still not familiar with many functions of her smartphone, so she frequently asks for help from her son. But her son has moved to a different area for work reasons. She needs his help when he is away.

B. Alex is Kumari's son and usually helps his mom with her smartphone. Alex has to move out of his mom's house to a different area for work. He wants to help his mom even when he is away.

Motivation:

Alex wants to remotely help his mom, Kumari, when he is away. Kumari would also like to receive help from her son, even when he is away.

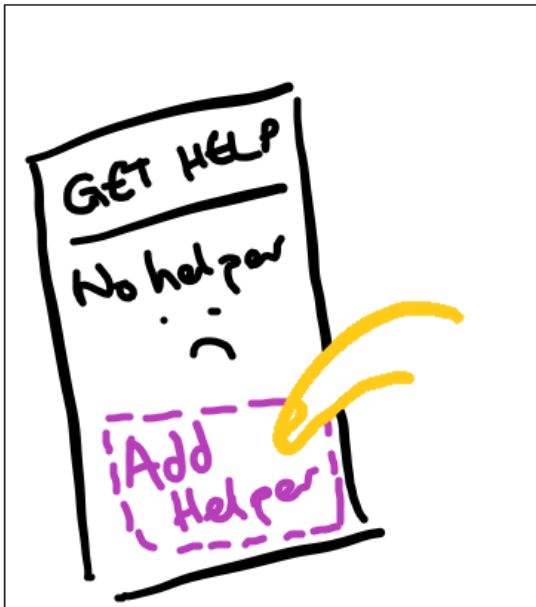
**Establishing connection (Remote) - Helped and helper establish connection for the first time in remote situations.**



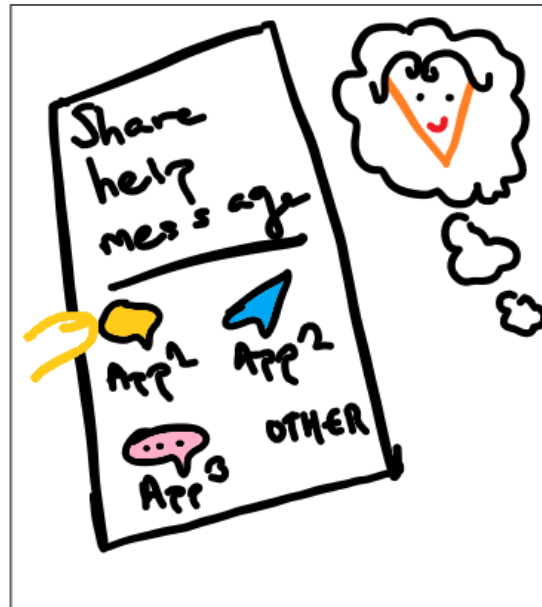
1. Kumari does not know how to turn off notifications for a messaging application she uses.



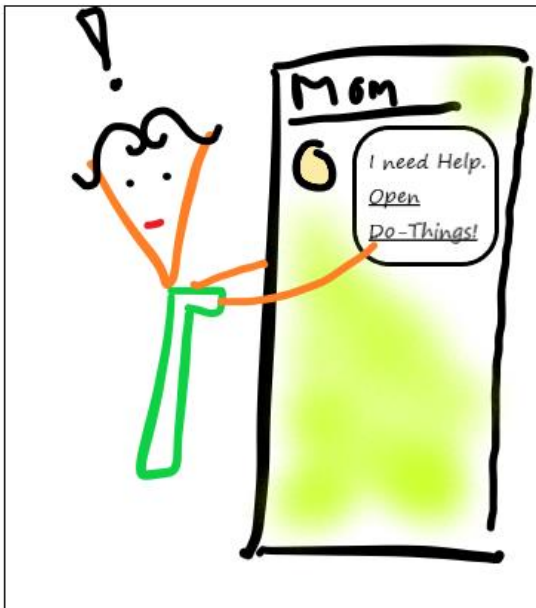
2. She uses the Do-Things app to get help from her son.



3. She has not established a connection with her son yet, so she starts the process of adding her son as a helper.



4. She can choose from different apps on her phone to share a help message with her son.



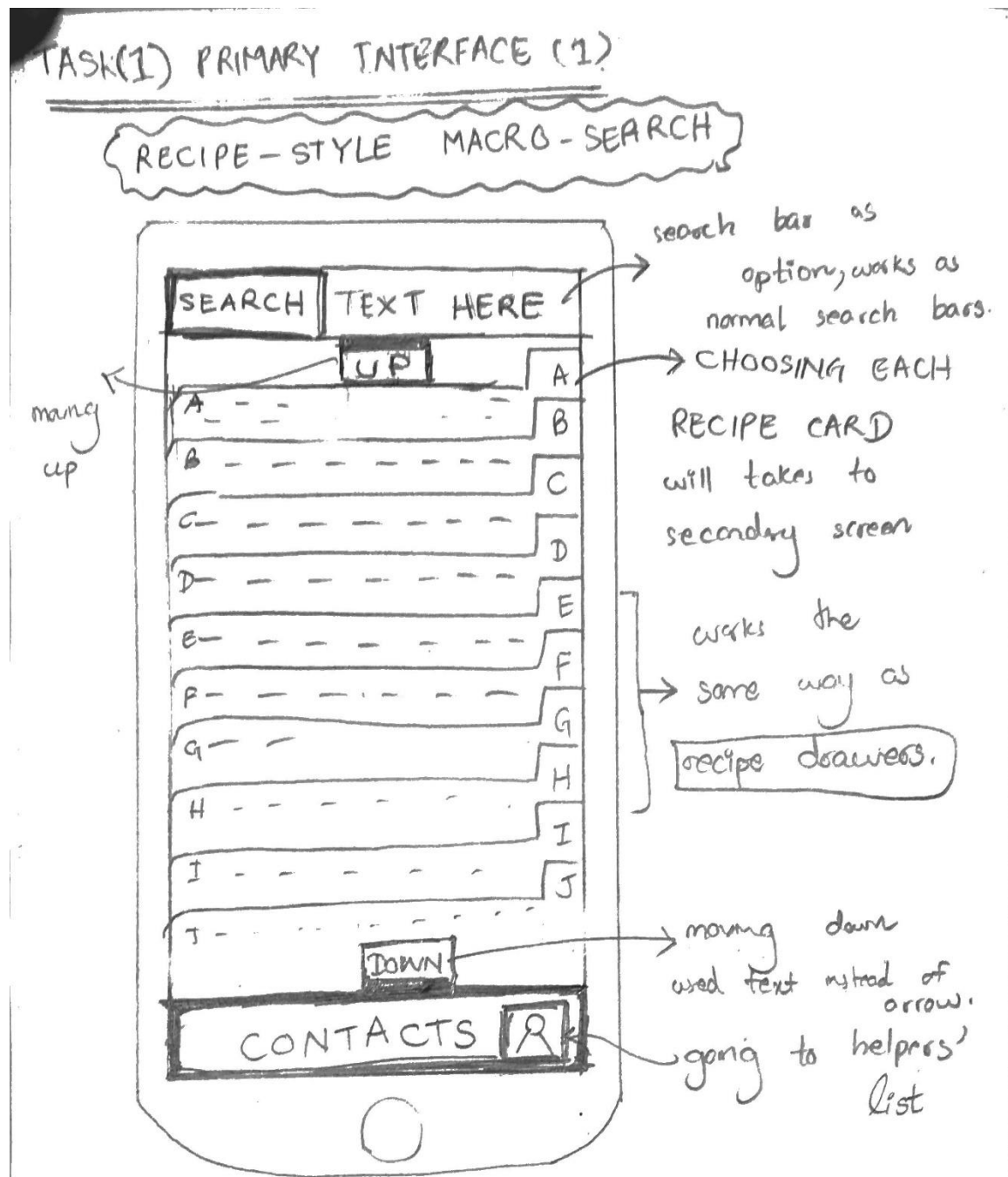
5. Her son, Alex, receives the message and clicks on the link.



6. Alex appears in the Helpers list on the Do-Things app. His mom can ask him for help now.

\*Drawn on Microsoft paint

## TASK (1) Using a recorded macro: Primary Interface 1



\* This interface is designed to bring similarities from recipe drawers and dictionaries into app.

Easy to understand for older people.

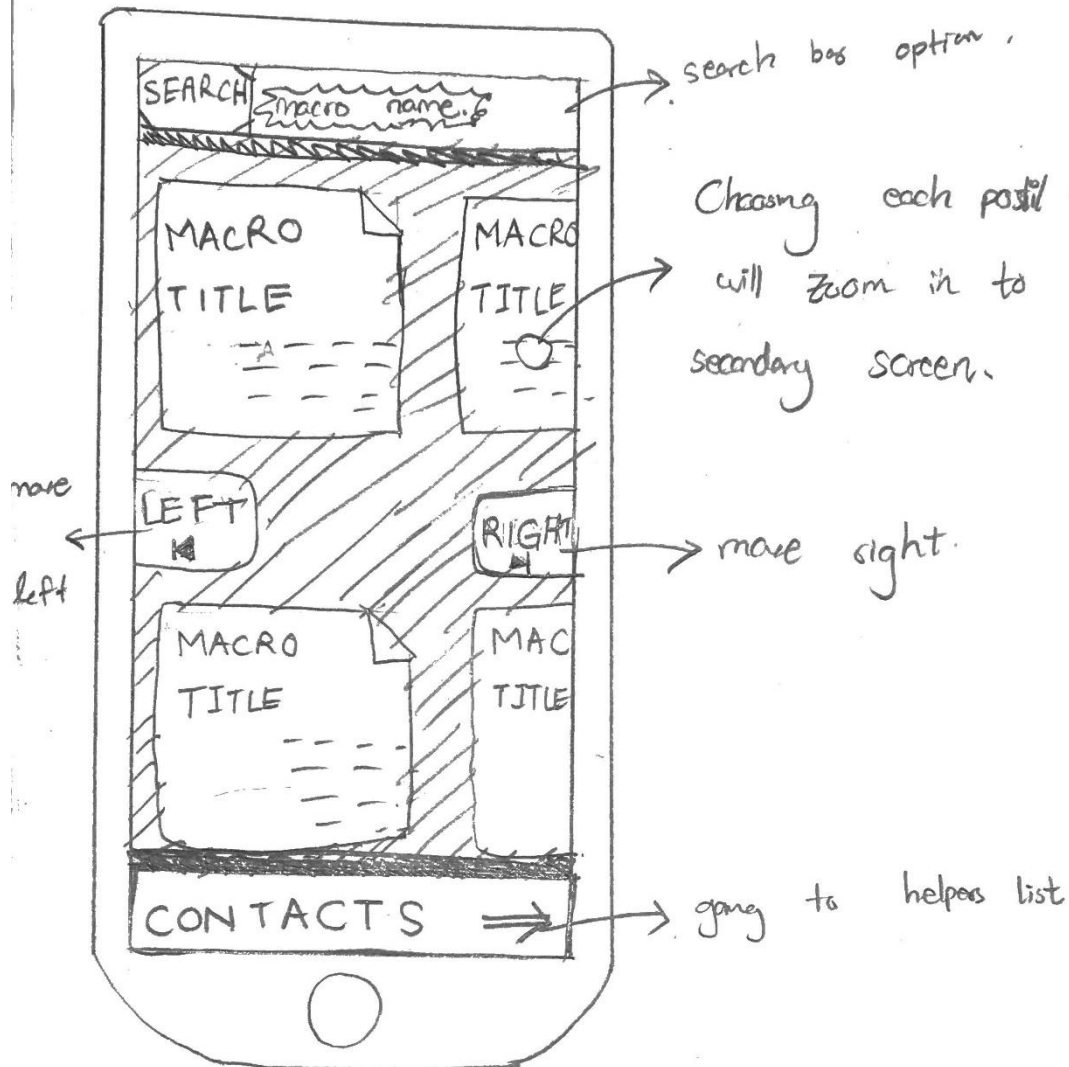
\* Buttons are created similarly to physical buttons



## TASK (1) Using a recorded macro: Primary Interface 2

### TASK (1) PRIMARY INTERFACE (2)

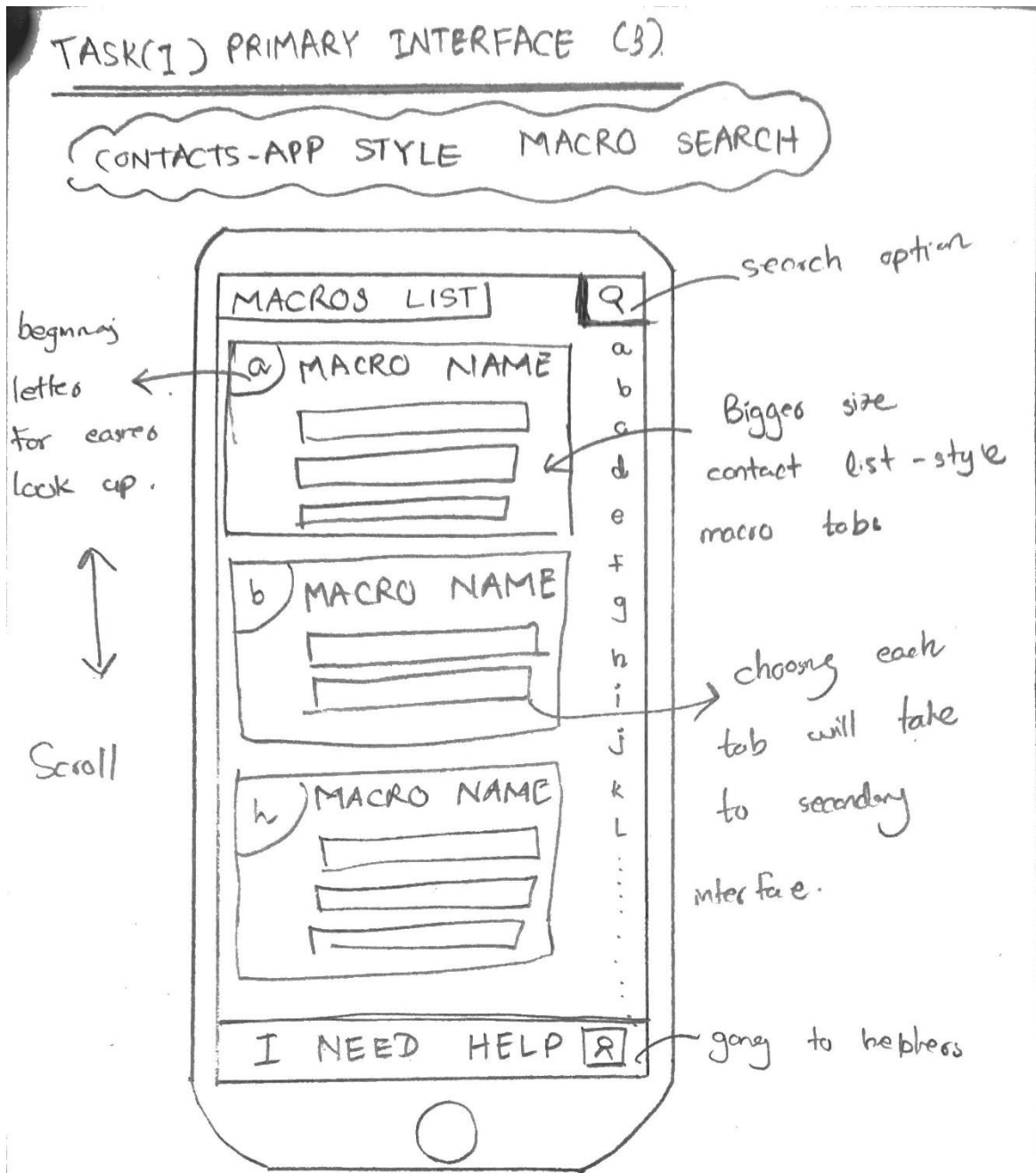
#### POST-IT BOARD STYLE MACRO-SEARCH



- \* Inspired by real-life poster boards
- \* meant for managing a few macros only with maximum visibility
- \* easier to navigate.

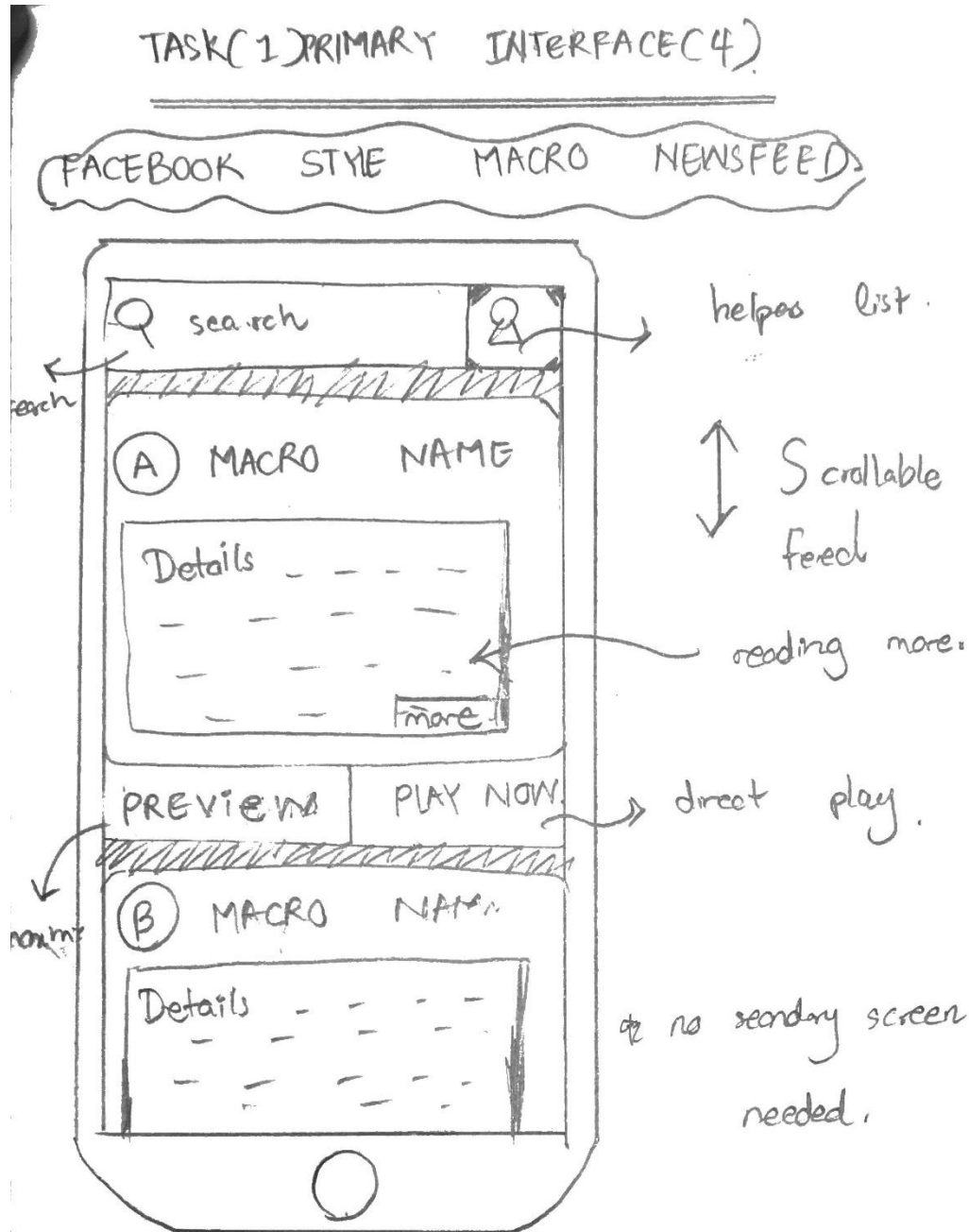


## TASK (1) Using a recorded macro: Primary Interface 3



- \* tend to use "user"'s prior knowledge of contacts app of smartphone, more functionality, they already know how to use
- \* Bigges Text, Bolder Icon for elder people.

## TASK (1) Using a recorded macro: Primary Interface 4



since a lot of older people, know how to use Facebook app,

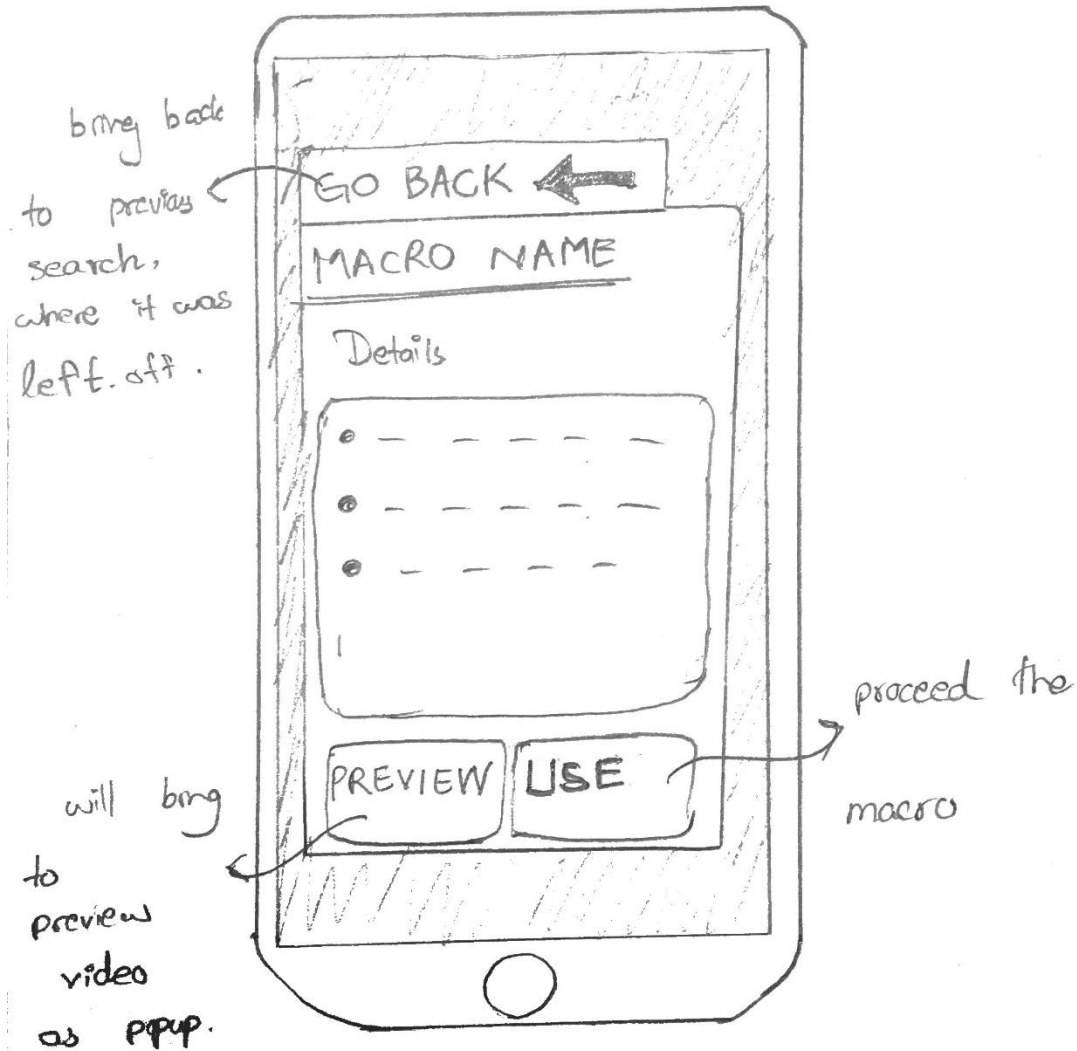
or similar interface with bigger icons and text

is preferable for smaller macros lists.

## TASK (1) Using a recorded macro: Secondary Interface 1

### TASK (1) SECONDARY INTERFACE (1)

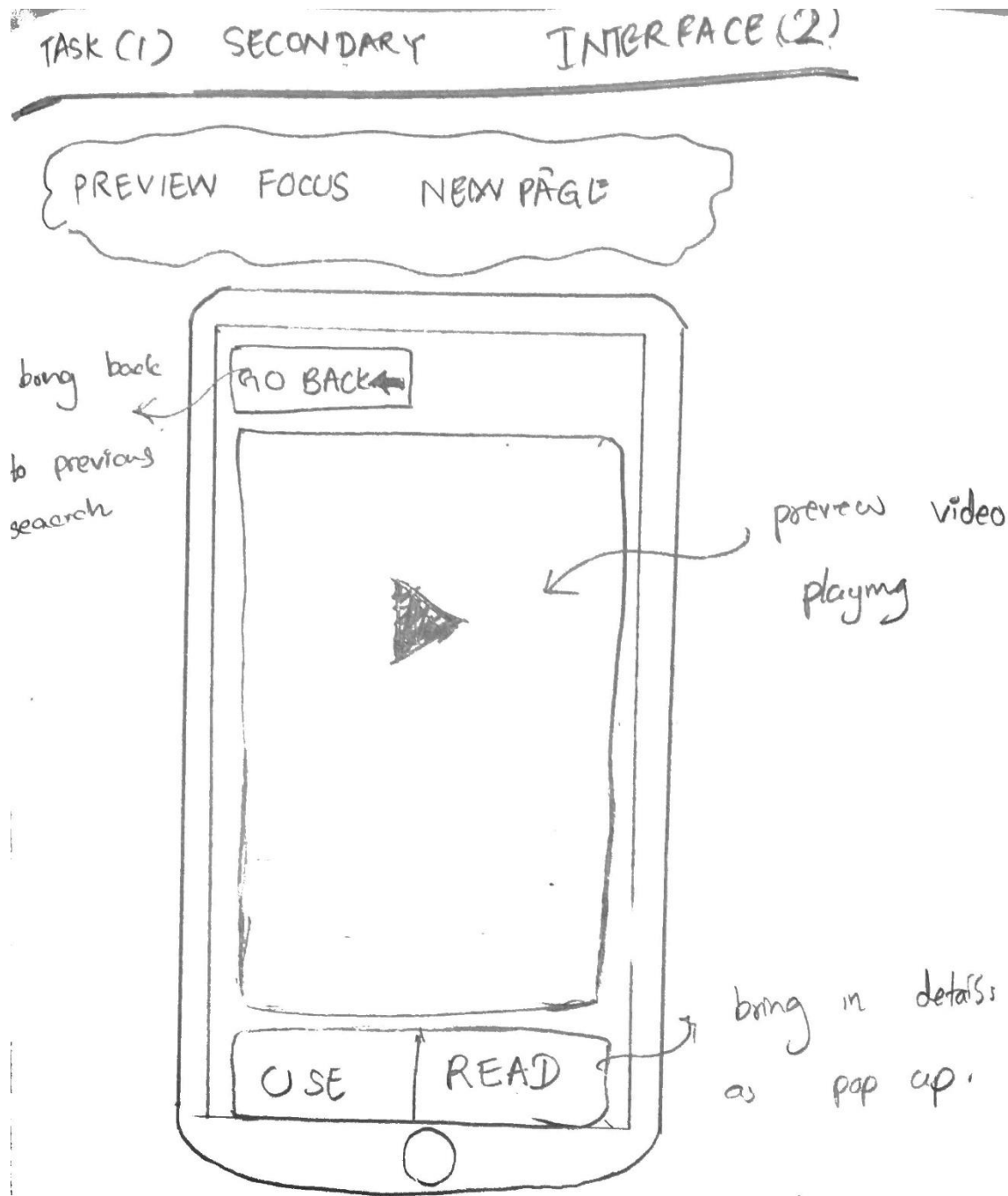
#### BIG-TEXT READABILITY POP-UP



- ⚡ Details are the center of the interface.
- ⚡ preview is displayed with a button.



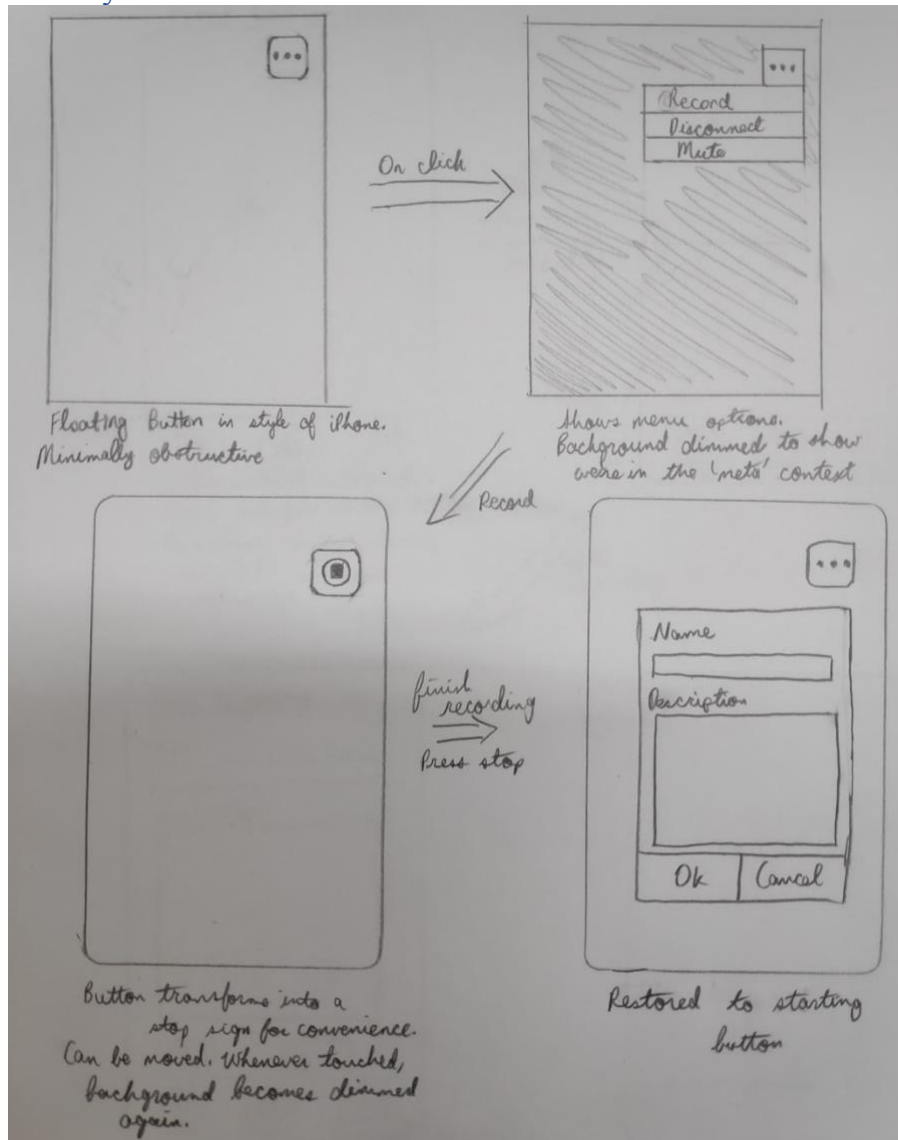
## TASK (1) Using a recorded macro: Secondary Interface 2



- preview is automatically displayed.
- details is hidden.
- not a pop up

## Primary Interfaces for Task 2 – Screen overlay to control the recording process.

### Primary Interface 1 for Task 2: Starred



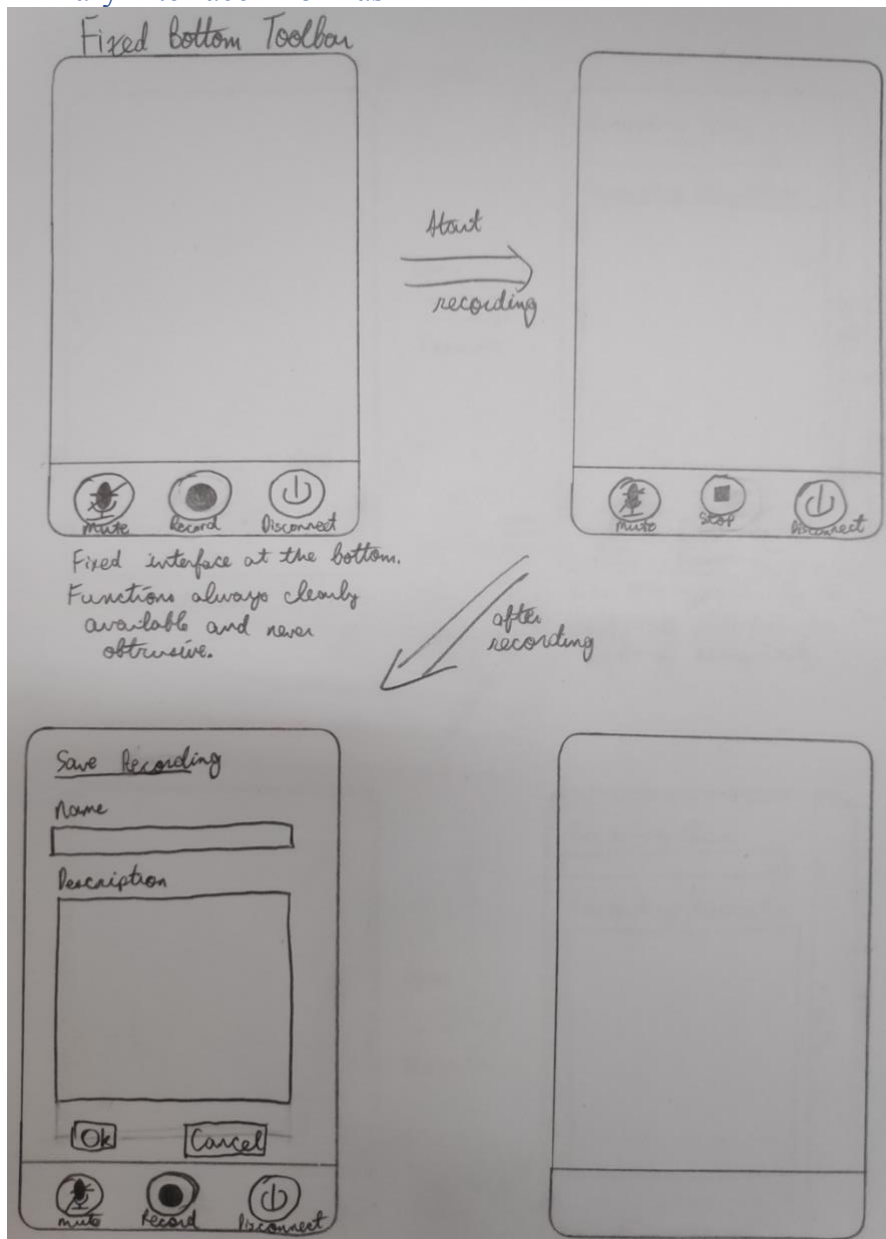
#### Pros:

- +Easily recognizable as a button due to familiarity with both IOS and Android offering similar interfaces.
- +Minimally obstructive while icon shows the recording state.
- +Dimming shows a clear distinction between interacting with the phone vs the controls.

#### Cons:

- Requires two steps to start recording and access any other options.
- Options are inaccessible while recording.
- Drop down menu might be cumbersome to click on.

## Primary Interface 2 for Task 2



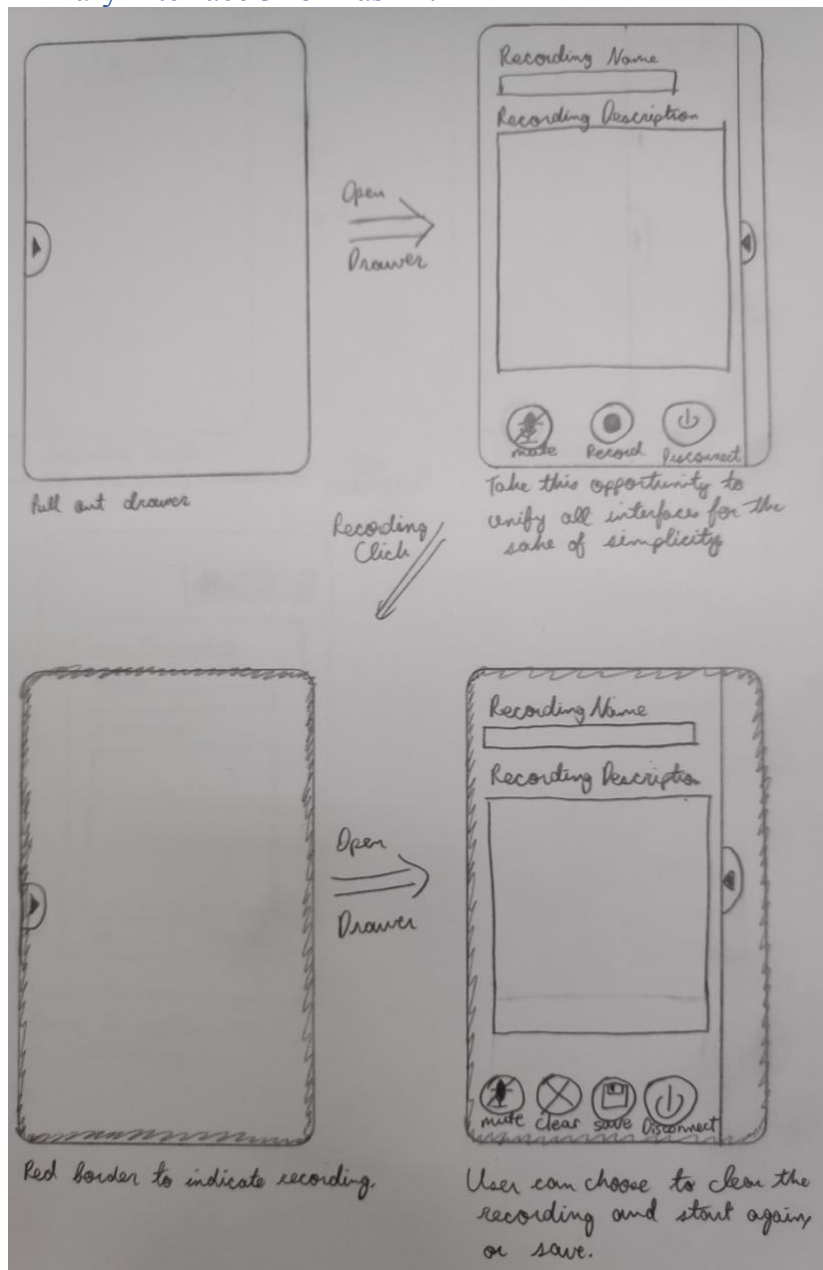
### Pros:

- +All functions are always available.
- +Very clear division between the recording section of the screen and the control section.

### Cons:

- May reduce visibility by having to reduce the size of the viewport.
- Reducing viewport size makes remote control harder in accessibility.
- Buttons are not always necessary to have around. Additional clutter.

## Primary Interface 3 for Task 2:



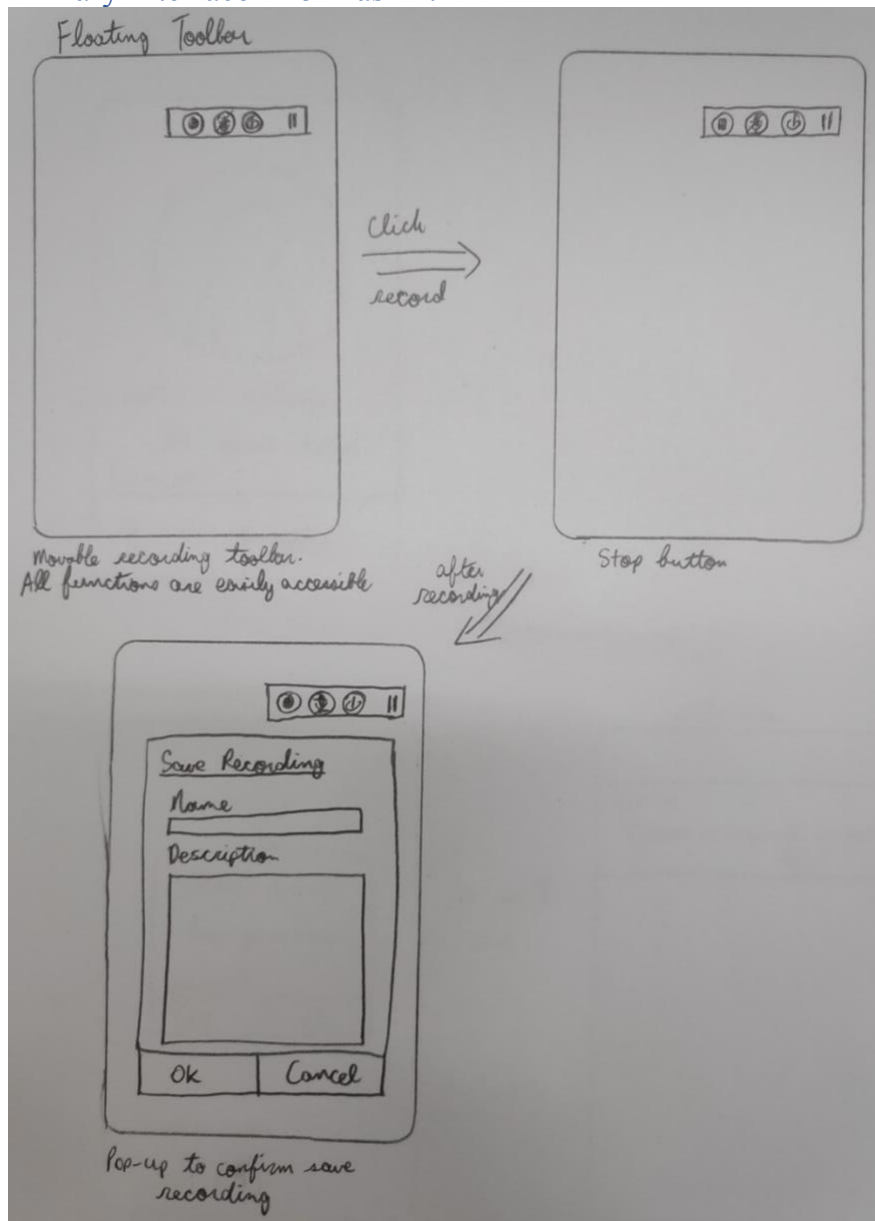
### Pros:

- +Very non-obstructive during the recording phase.
- +Clearly shows recording being done.
- +A single, self-contained screen for the whole macro recording process.

### Cons:

- Two clicks to access any function.
- Changing buttons on the bottom row.
- Requires a long transition animation to access the drawer.

## Primary Interface 4 for Task 2:



### Pros:

- +All functions easily accessible in a single click.
- +Clear that this is part of the application.

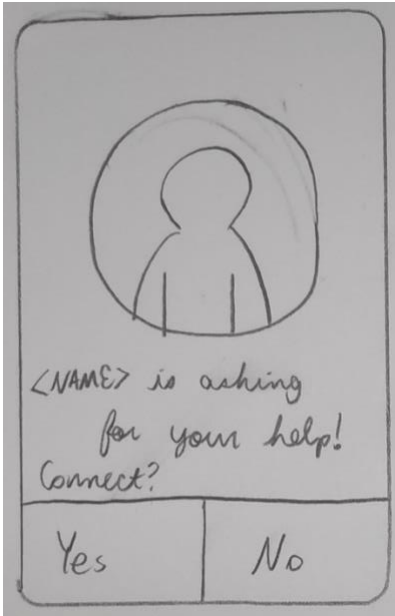
### Cons:

- Obstructive during recording, especially compared to the single button.
- Buttons are small and hard to press, since we have to make the toolbar small to minimize obstruction.
- No label text.
- Unclear when recording.



## Secondary Interfaces for Task 2

### Interface 1: Starred



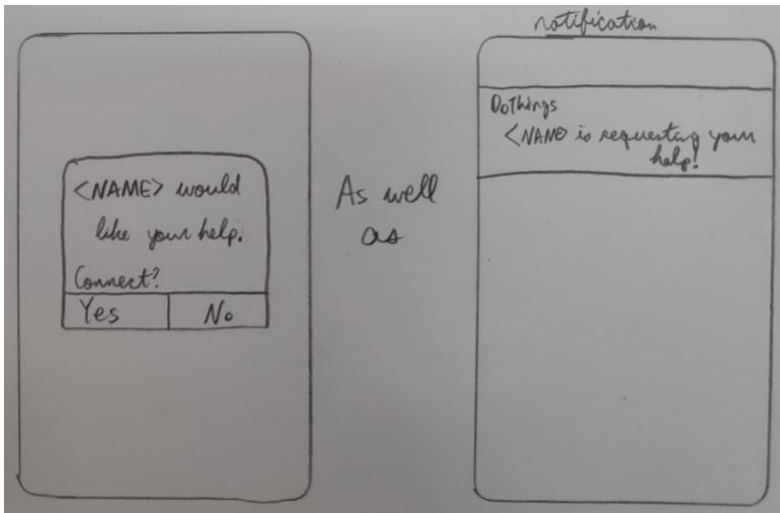
Pros:

- +Reminiscent of Kakaotalk and other messengers' call screens.
- +Makes it clear what's going on. That this is a task that requires immediate attention.

Cons:

- Completely obstructive.

### Interface 2:



Pros:

- +Notifies without being too obstructive.

Cons:

- Lacks space for information.
- Not distinctive as something that requires immediate attention.

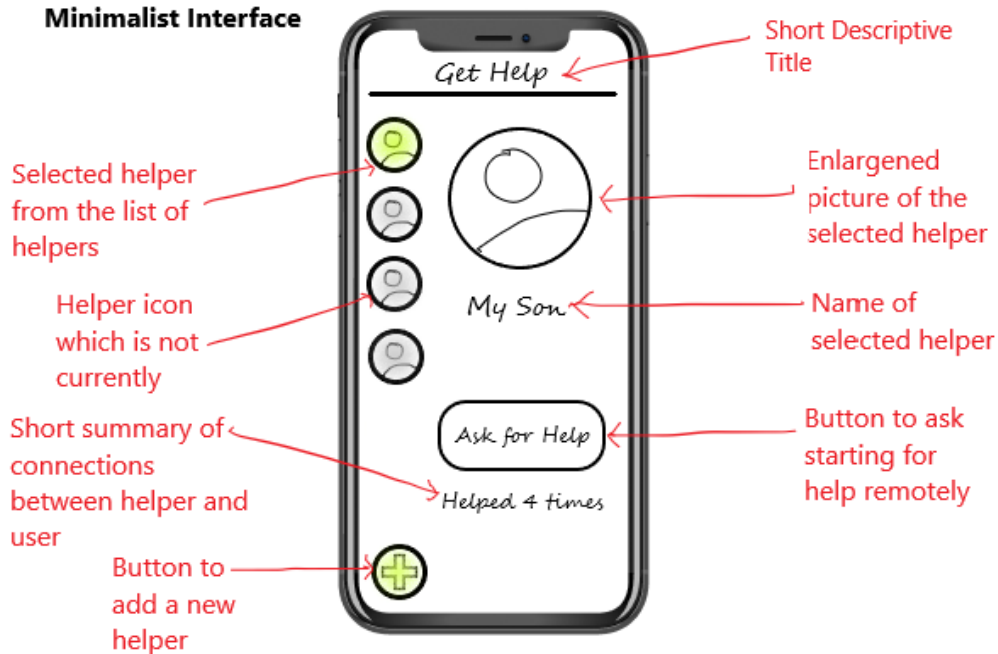
### TASK (3) Establishing connection (Remote): Primary Interface 1

#### Descriptive Interface



### TASK (3) Establishing connection (Remote): Primary Interface 2

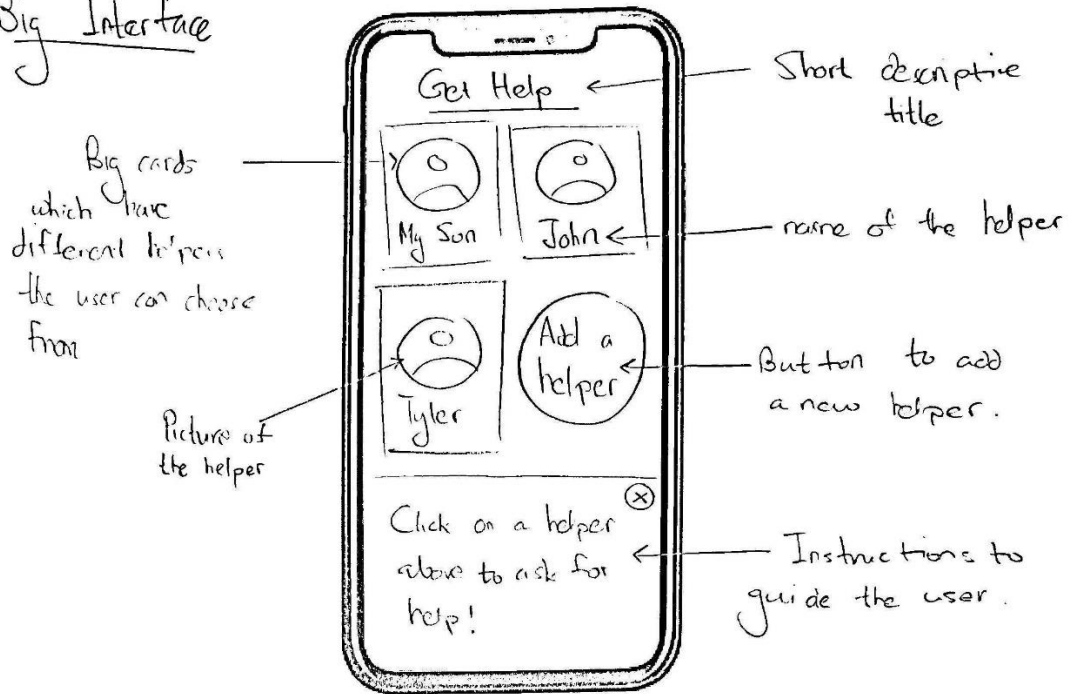
#### Minimalist Interface



\*Drawn on Microsoft paint

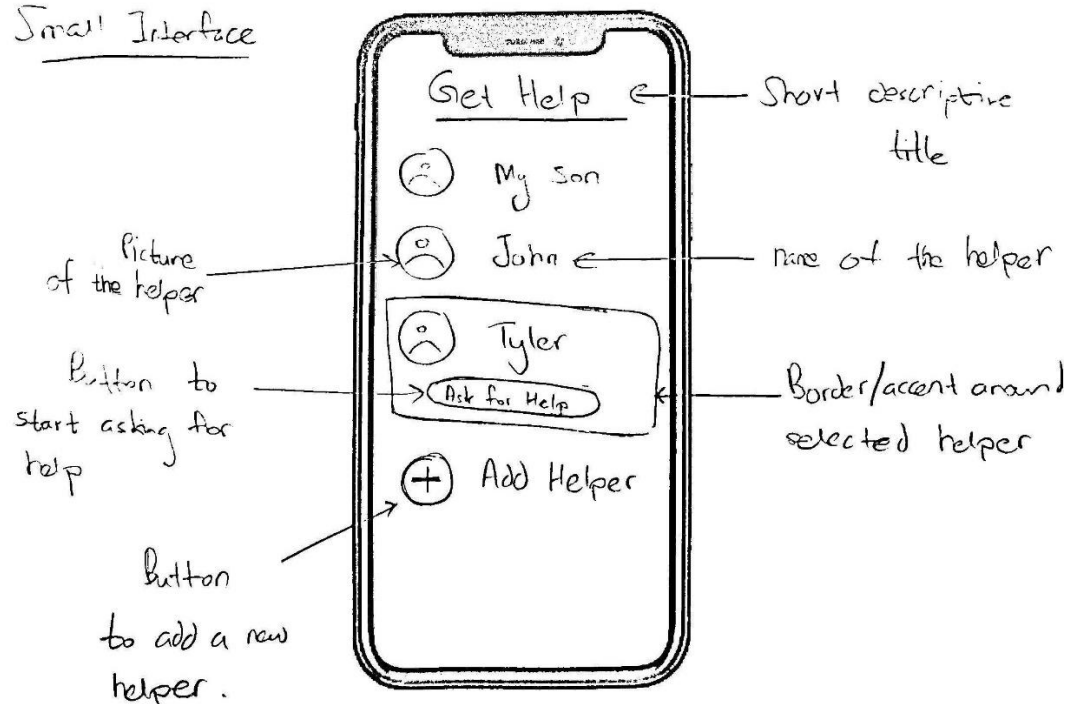
### TASK (3) Establishing connection (Remote): Primary Interface 3

Big Interface



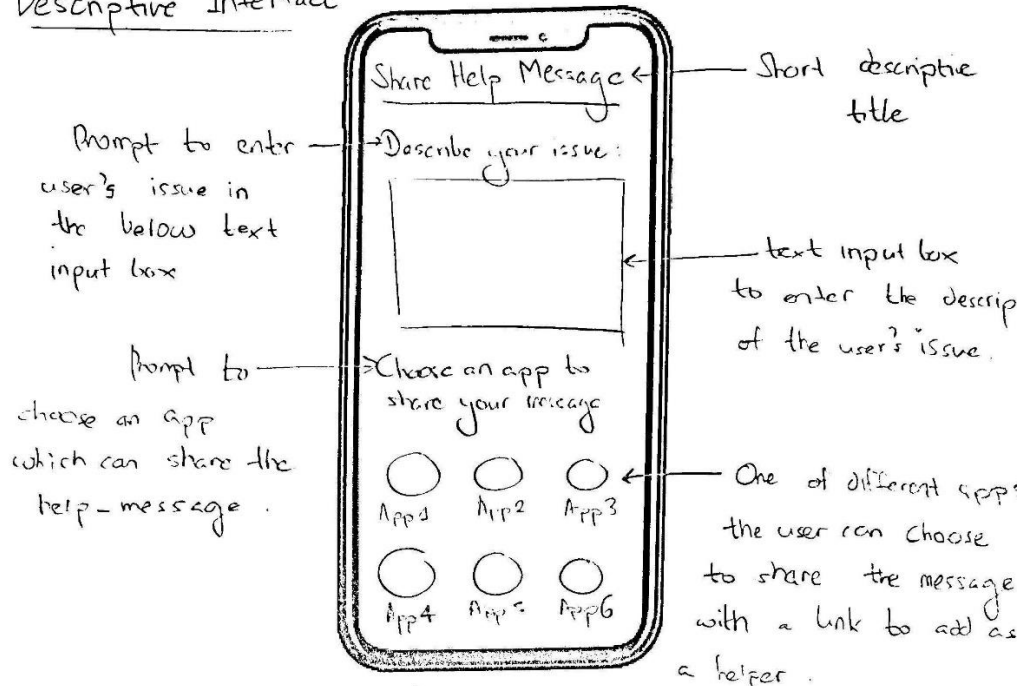
### TASK (3) Establishing connection (Remote): Primary Interface 4

Small Interface



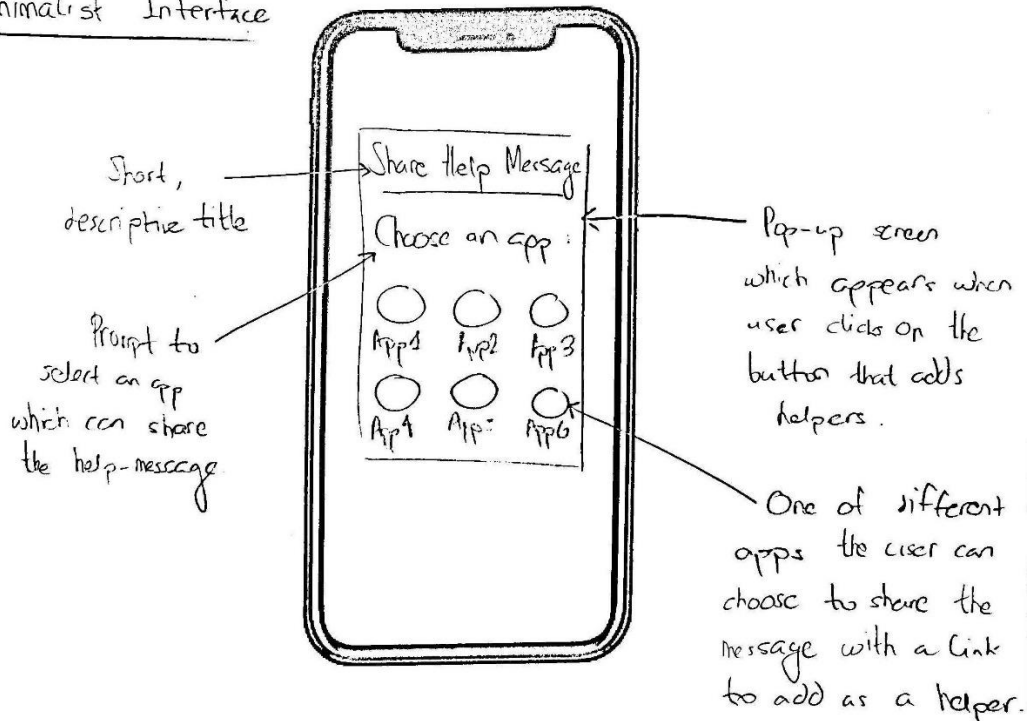
### TASK (3) Establishing connection (Remote): Secondary Interface 1

#### Descriptive Interface



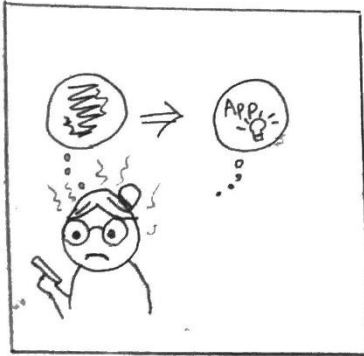
### TASK (3) Establishing connection (Remote): Secondary Interface 2

#### Minimalist Interface

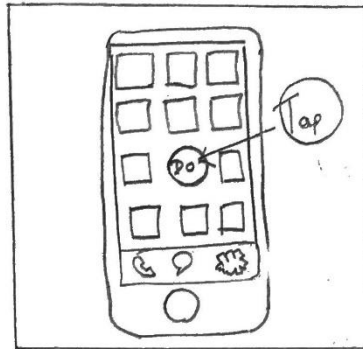


## TASK (1) Using a recorded macro: Iterated Story Board (Old)

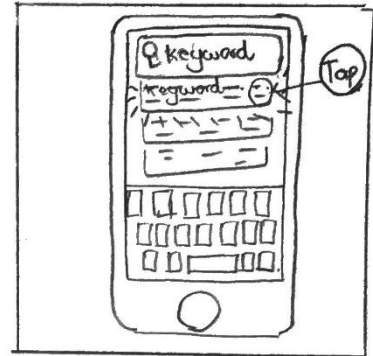
### TASK(1) STORY BOARD, Using a recorded macro



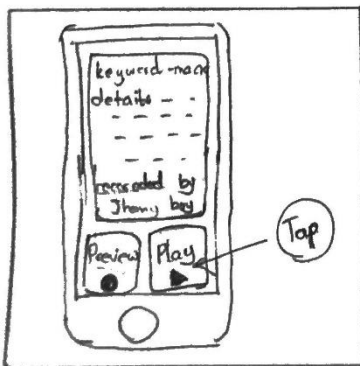
1. Helpee having an old problem, and remember that she has the macro recorded



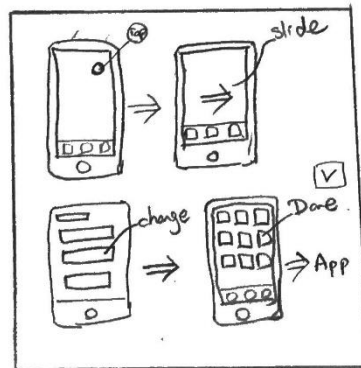
2. go into the app



3. search for the macro, find it



4. choose play options



5. macro gets played, and the process got automated.



6. check the result, problem solved.

### Feedback

- Lacking some concrete explanation, (didn't mention smartphone)
- Macro is too confusing concept for a storyboard
- Instead of generalization, the specific example will be better to understand.
- Automation part is unclear that it is automated.

## TASK (1) Using a recorded macro: Iterated Story Board (New)

### TASK (1) STORY BOARD, Using a recorded macro

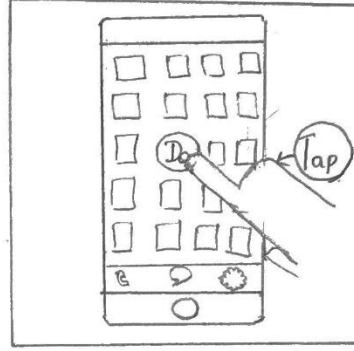
\* macro = repeated actions in smartphones (touch and swipes) which can be recorded and play



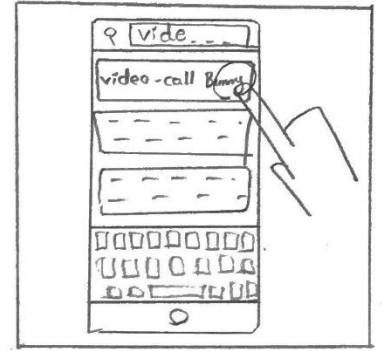
1. Helpee forgot how to video call her grandson, and he taught her that last week.



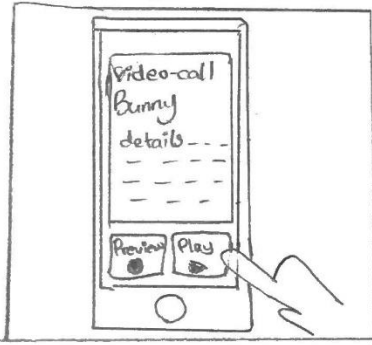
2. She remembers that she can use "Do-things" app. (macro was recorded)



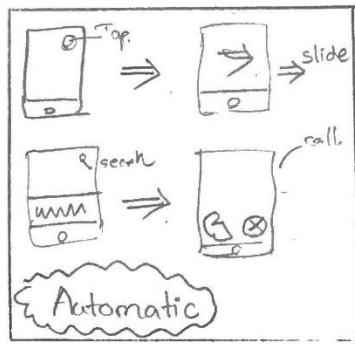
3. Go into Do-things app.



3. search for video-call macro, and found it.



4. Choose play button.  
(To initiate macro process)

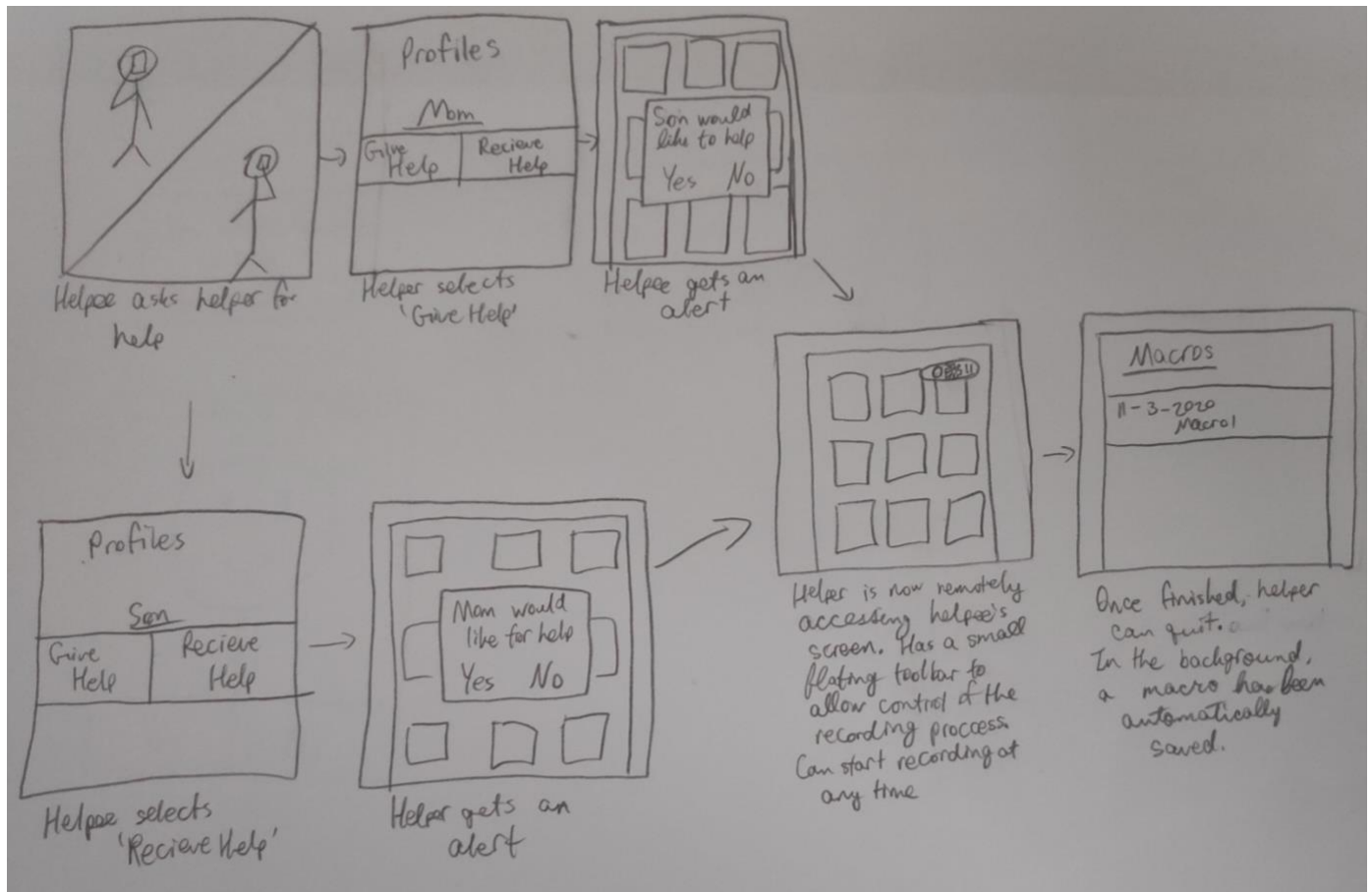


5. Automatically, smartphone goes through steps to video-call her grandson.



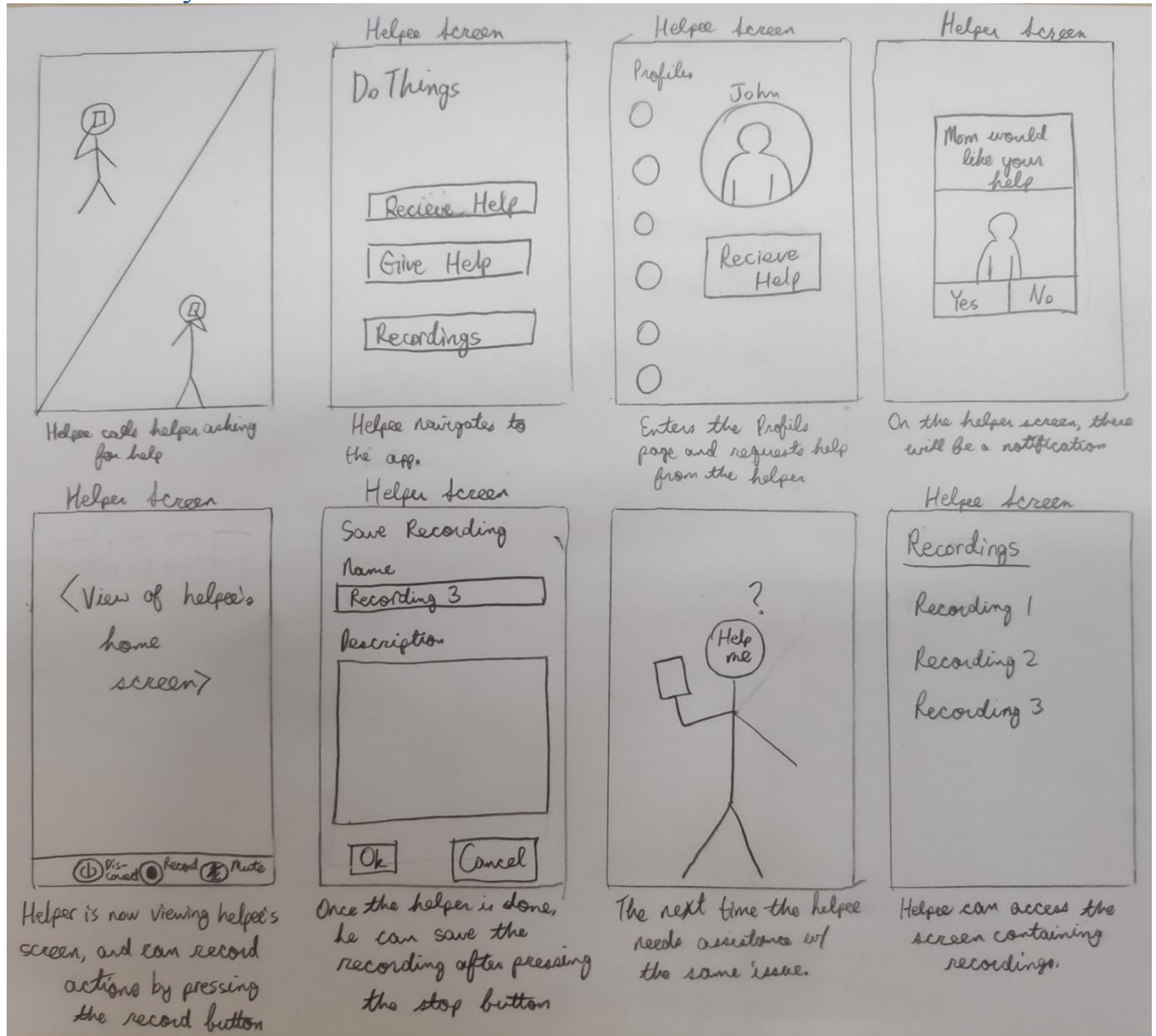
6. Now, she is video-calling with her grandson.

## Original Storyboard for Task 2





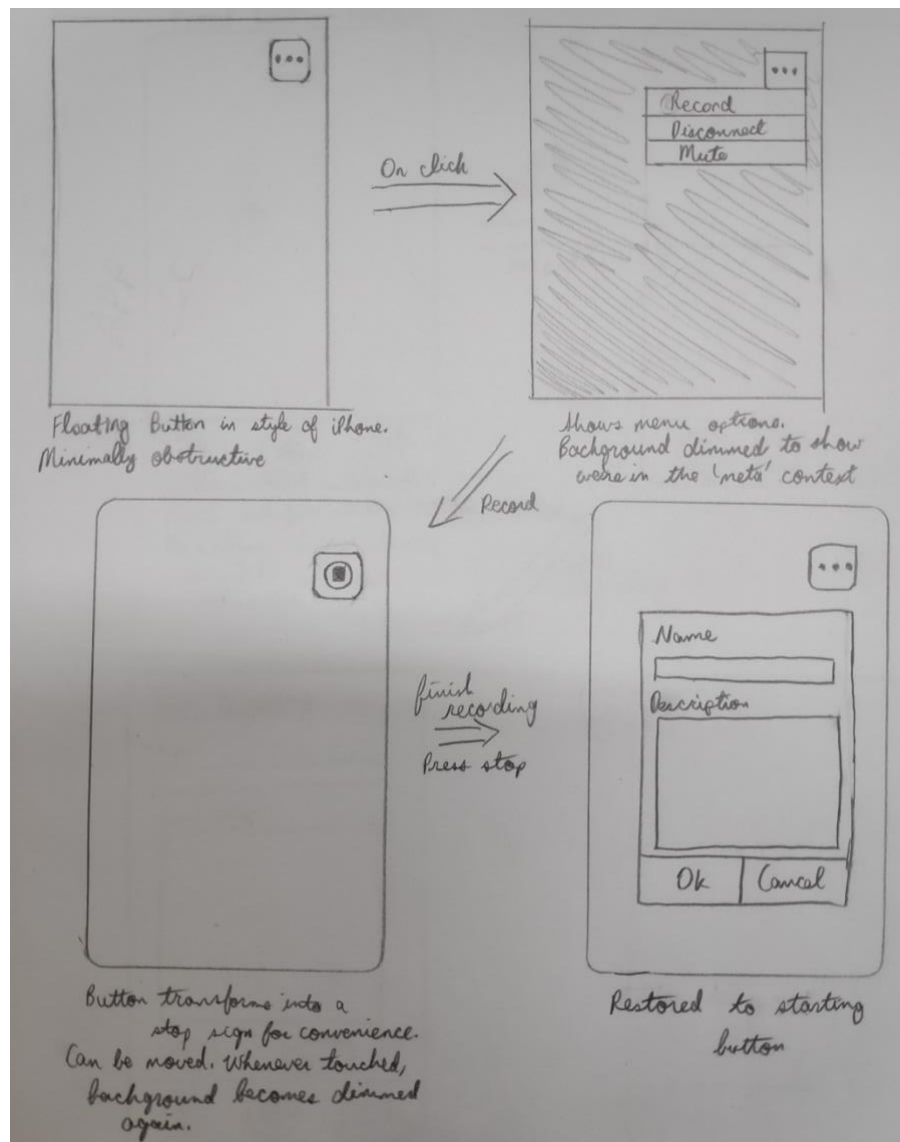
## Iterated Storyboard for Task 2:





## Iterated Primary Interface 1 for Task 2:

Old:



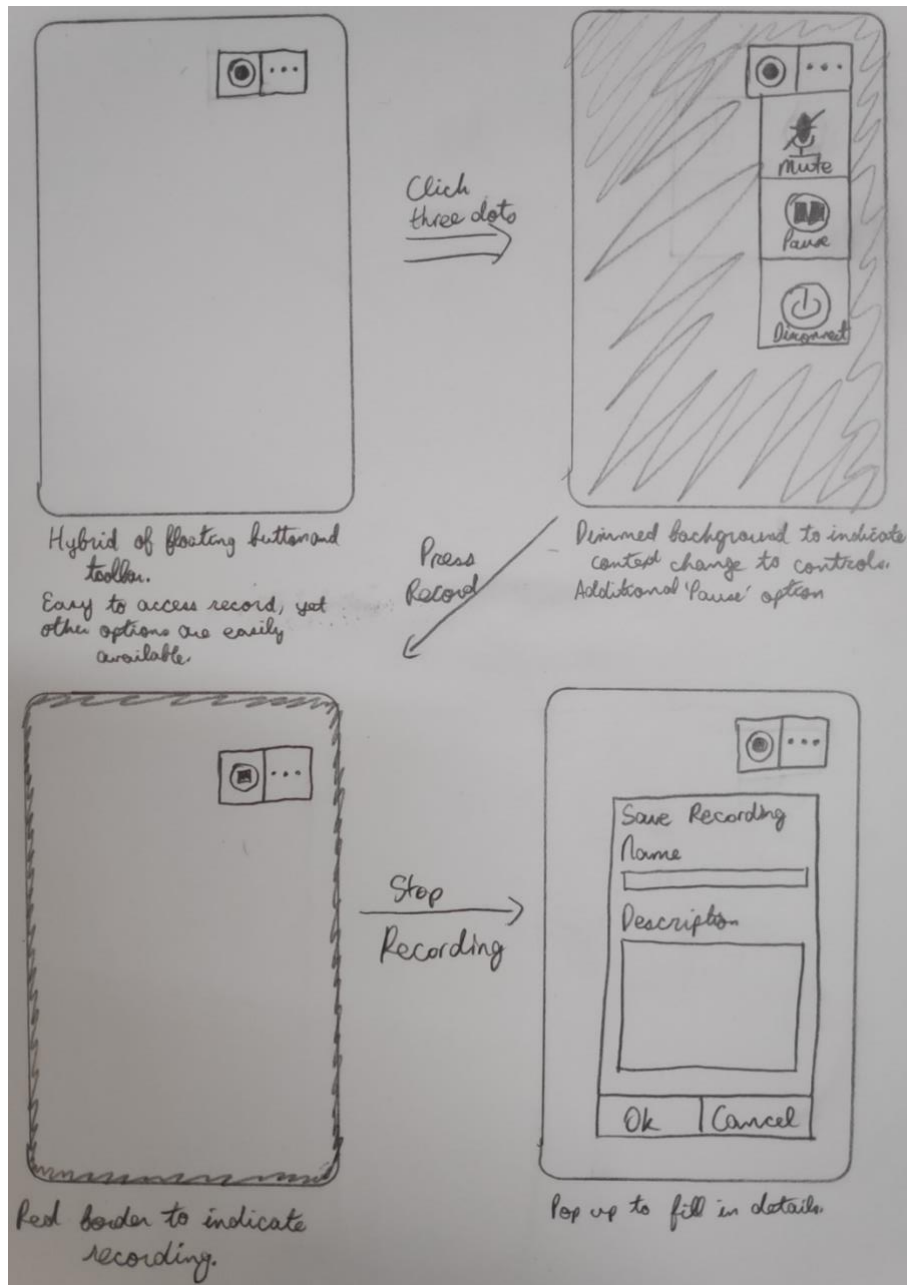
Pros:

- +Easily recognizable as a button due to familiarity with both IOS and Android offering similar interfaces.
- +Minimally obstructive while icon shows the recording state.
- +Dimming shows a clear distinction between interacting with the phone vs the controls.

Cons:

- Requires two steps to start recording and access any other options.
- Options are inaccessible while recording.
- Drop down menu might be cumbersome to click on.

New:



Notes:

- +Start the recording process in a single click.
- +Includes a pause function.
- +Large icons in the drop down for easy accessibility.

## Appendix

### Brainstorming Tasks

*Recording Macros for repetitive tasks*- User wants to record a macro that helps with some repetitive function that could be made simpler using a macro. An example would be to change a setting that may take multiple steps.

*Using a recorded macro* - Helpee needs help with an already recorded problem, go into the app, look for it and replay it.

Primary screen - macro list and search

Secondary screen - macro details / execution and (preview)

*Remote helping with established connection* - Helpee went into the app, allowing the established connection from the helper. And then, wait and see what helper would do on their phone and helper keep them as macro for later uses.

(or) Helpee requires help again and contacts the user. User re-establishes existing connections through the app and helps.

Primary screen - Helper's remote access overlay

Secondary screen - Helper's remote access screen

*Recording macro in-person* - If they are physically present next to each other, then the helper can directly record assistive macros on the helpee's phone. The helpee can then later replay these macros as necessary.

*Remote access to devices* - User wants to remotely access their own mobile-devices. After establishing an initial connection, they can access the remote device easily.

*Establishing connection (In person)* - Helpee and helper establish connection for the first time in person.

*Establishing connection (Remote)* - Helpee and helper establish connection for the first time in remote situations.

Primary screen - Interface to add or view existing connections with other users

Secondary screen - Helpee shares private ID with helper(s)

Interface #1 for primary screen - Typical Contacts Screen

Interface #2 -

*Reverse remote* - helper wants to watch the helpee perform a task. In this case, the connection is made in the other direction, with the helpee establishing a link to the helper's device so that they can view what the helper is doing.

*Screen sharing* - User wants to watch something together with another user. They can allow the other user to establish a connection to the host's phone where they can then share some activity together.

*Managing macros on the device* - The user can delete, rename or move recorded macros in their device.

## Appendix B: Critique

### Task1 storyboard - Panel 1

What problem? Which problem is she having?

Some people may not know what a macro is?

The automation part is not clear

Primary Interface 4 - Details are not that necessary, straight up image or video will be better

### Task 2 storyboard

Does the phone automatically ask the helper and helpee if they want to connect?

What kind of problem does the helpee need help with?

It's not clear how to navigate to the various interfaces. Transitional panels must be included.

Should focus on a single workflow, even if there are multiple options to the same end. Should show the ideal case.

### Primary Interface 1-

Might be too small.

Not clear what it can do until you click on it.

### Primary Interface 2-

Unnecessary to continue to take up so much space.

Hard to adjust to smaller visible window.

### Task 3:

#### Primary Interface 1:

- It has a good UI
- User has to scroll all the way down to add new helper
- Small amount of additional info would be helpful(e.g. last time helped, number of times helped)

#### Primary Interface 2:

- If none of them have profile pics you will not be able to identify / distinguish
- Too much free space

#### Secondary Interface 1:

- Divide the steps: writing the issue and choosing the app
- Add a progress bar