

PROJECT HARMONY

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Overview

- Problem & Solution
- Contextual Inquiry
- Task Analysis
- Tasks
- Design Sketches
- Summary
- Questions

Problem & Solution

Problem



**I wish I can figure
out how to approach
someone!**

Solution



We'll tell you!

Contextual Inquiry: Customer Background

- Tom
 - Faithful Father
- Philip
 - Awkward Transplant
- Anna
 - Boeing Engineer
- International students and researchers



Contextual Inquiry:

Questions as the Apprentice

- Can you show us how you decide whom to ask directions from this group of people?
- Can you describe how you perceive yourself socially?
- Can you show us how you would reflect on that interaction?



Contextual Inquiry: Observations

- Large range of ability to determine moods of others
- Self-consciousness is coupled with lack of confidence
- Easily described scenarios, but hard to put into practice
- Many want to learn how to improve their social skills



Task Analysis:

Customers

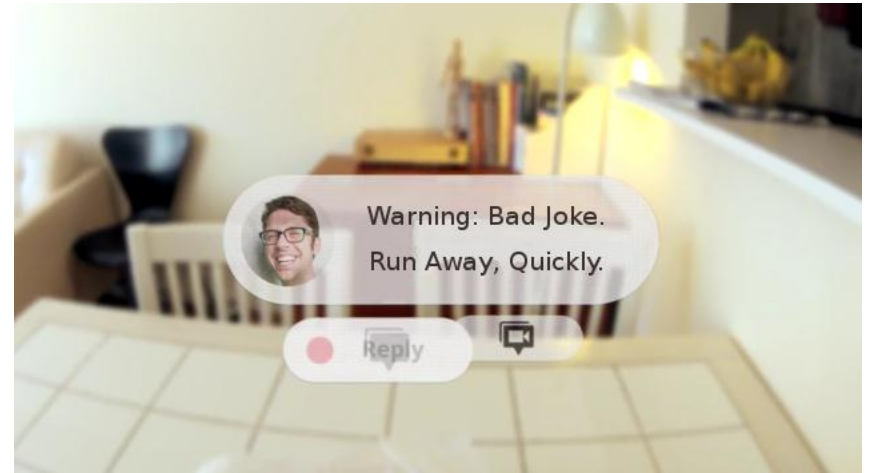
- Those who want to improve social skills
- Those unfamiliar with locals' mannerisms
- Those nervous in social & public situations



Task Analysis:

Existing Tasks

- Determine someone's mood
- Decide whom to talk to
- Review interactions to learn from them



Task Analysis:

Desired Task

- How can we improve ourselves?
- Take notes in real time on interactions to review later



Simple Task

Before

- Decide whom to sit next to on the bus



After

- Find the friendliest person to approach



Moderate Task

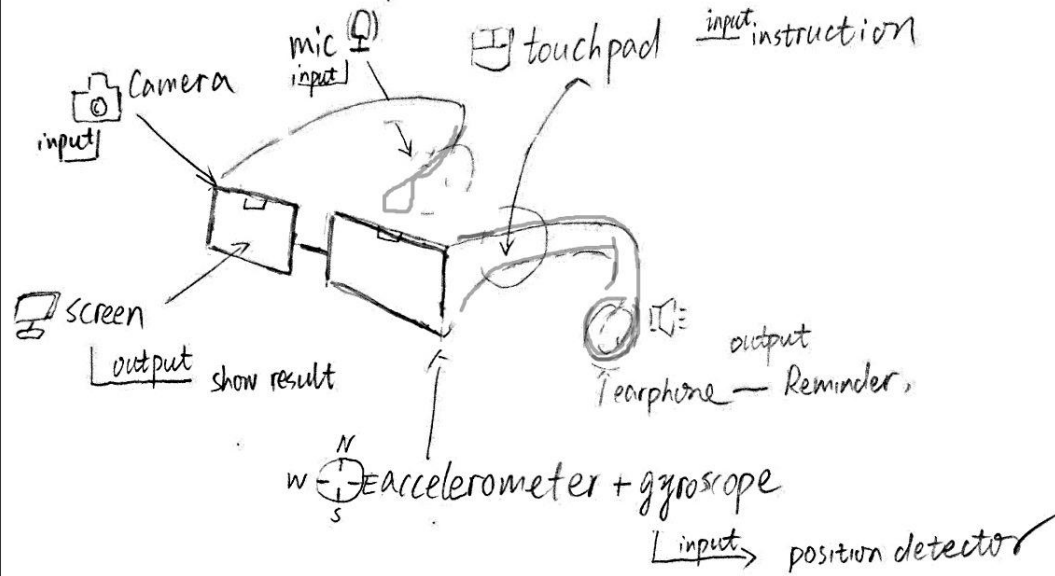
- Identify general feelings of another to oneself



Difficult Task

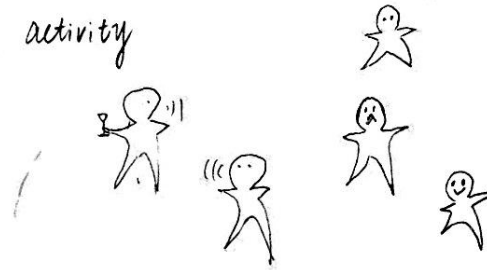
- Teach someone how to react in social situations in real time





target customer

In new environment.
or In social activity



who should I talk with?

people who are less social adept

look for help
or
want to meet friends

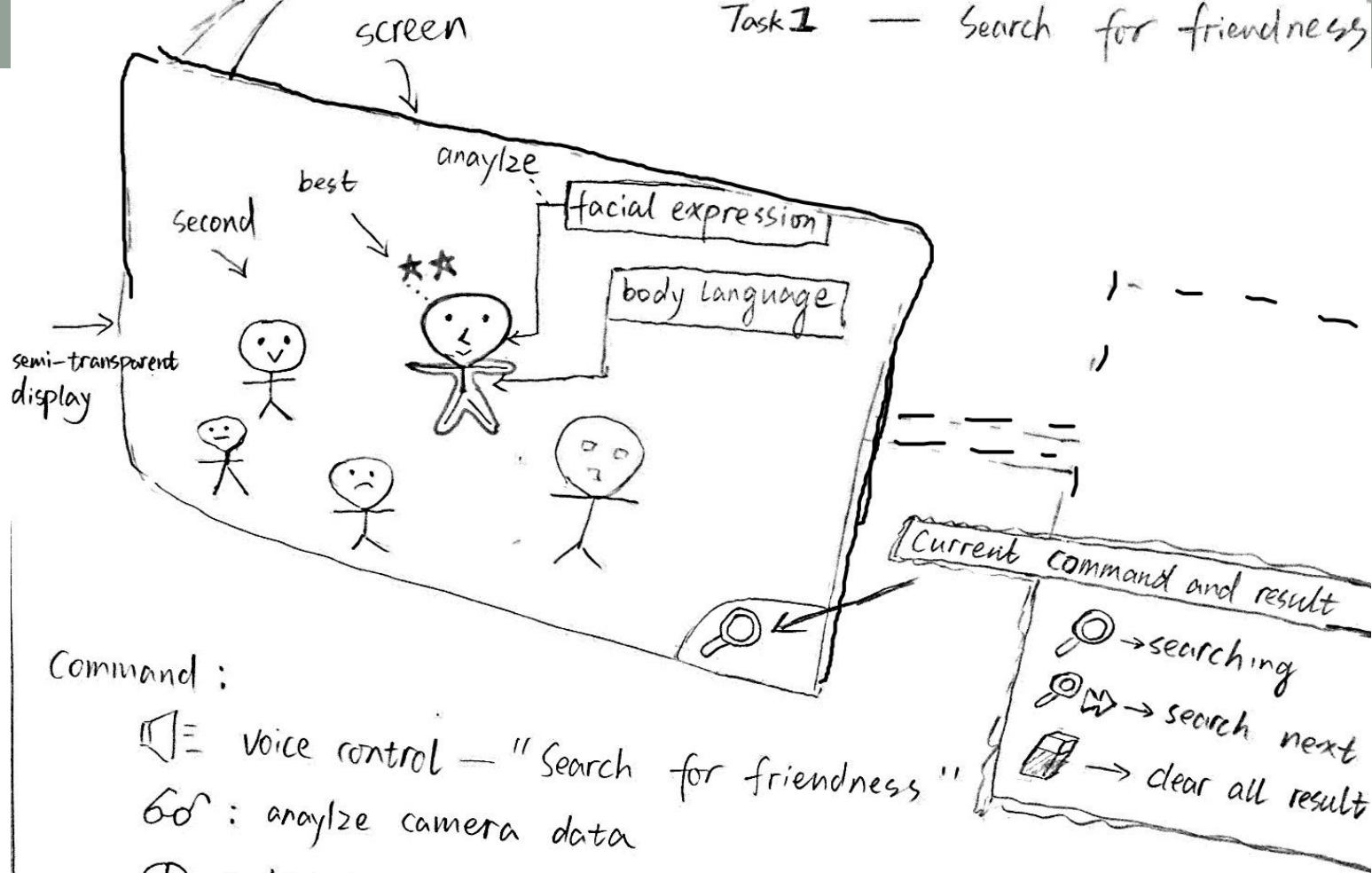
? How to monitor my social performance

? How to remind my impolite manners.

? How to reduce nervousness



Task 1 — Search for friendness



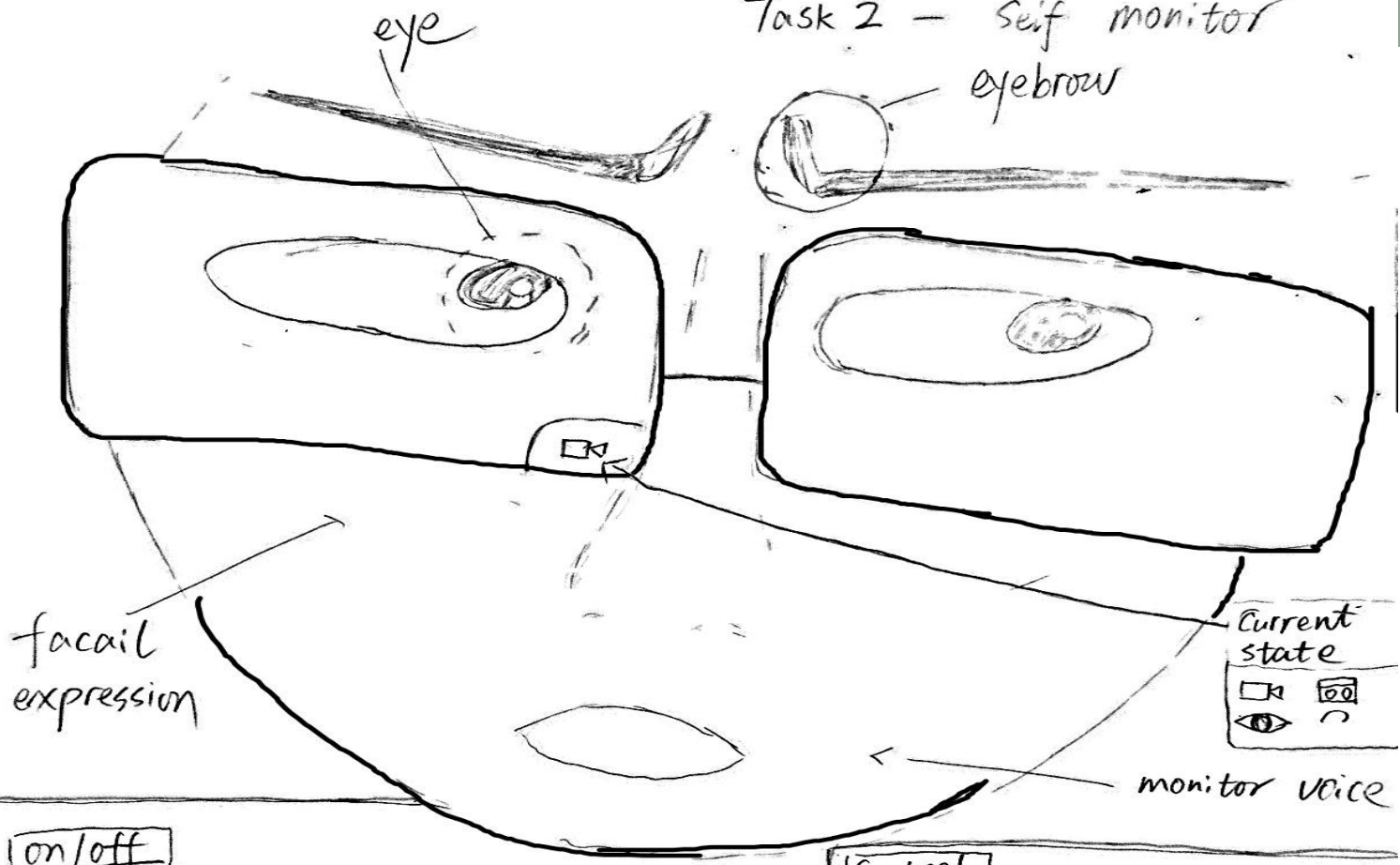
Command :

- 🔊 : voice control — "Search for friendness"
- 📷 : analyze camera data
- 👤 : highlight + tracking most friendly people

option : 🎤

- Voice control — "next", highlight + tracking second friendlies people
- "exit friendness", quit searching
- "clear searching"

Task 2 - Self monitor



on/off

🎤 : "self monitor on/off"

☐ : touch to turn on " , off "☐☐"

voice reminder

🔊 : "raise down your eyebrow"
earphone "look at people's eyes"

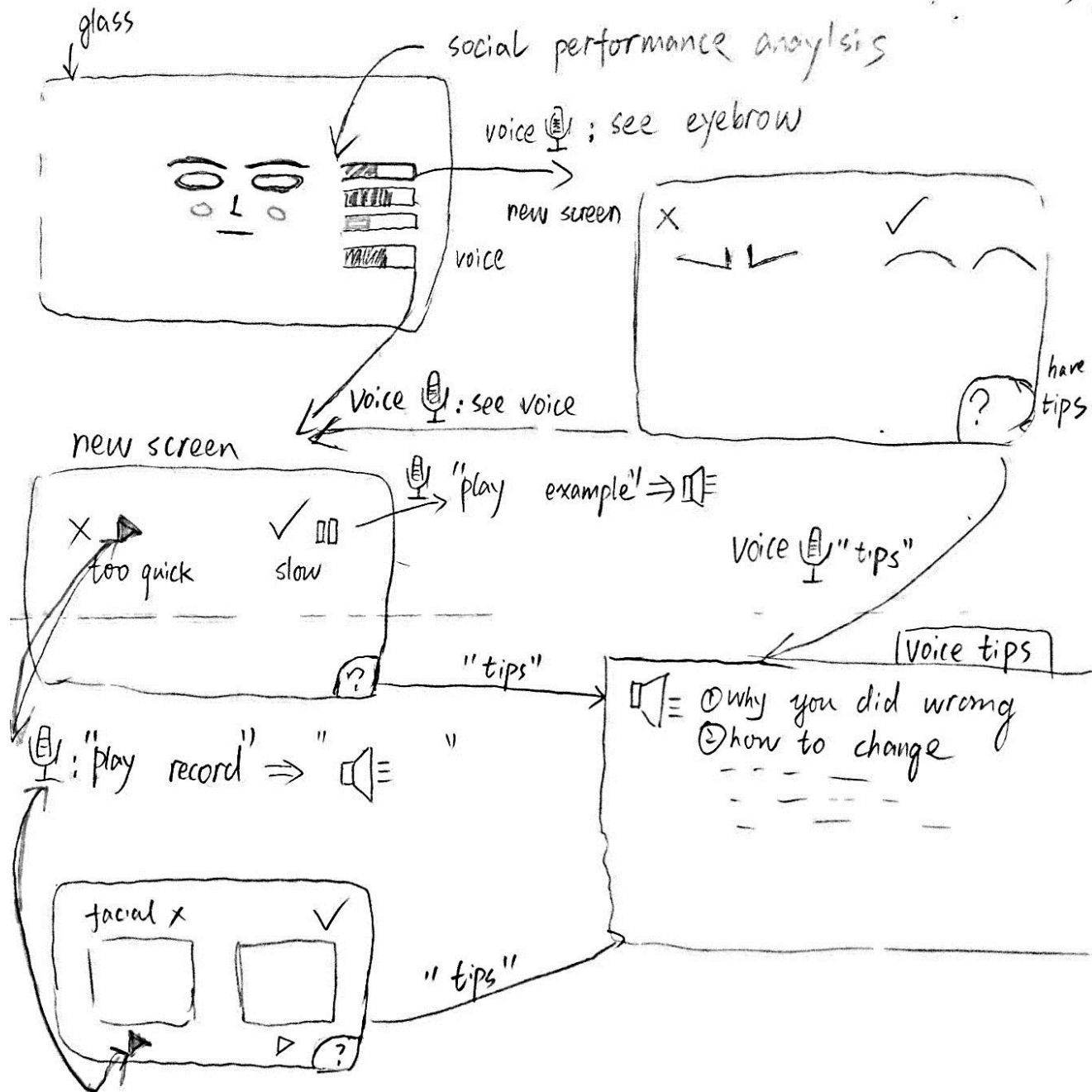
"well done"

Control

🎤 : "voice record"
"video record"

"slow down your voice"
"keep smiling"

Task 3 - self monitor history



Summary

- Determining how to appropriately interact with others can be difficult
- Contextual Inquiry: Customers rely only on their inherent skills for social interactions
- Task Analysis: Everyday interactions could be impacted by giving customers access to this extra information
- Project Harmony will help customers gain confidence while learning to interact with others

Questions?