

# Low-fi Prototyping & Usability Testing



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# OVERVIEW

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- Low-fi Prototyping
  - Mission
  - Selected Interface
  - Prototype iteration
  
- Usability Testing
  - Method
  - Results
  - Learnings

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# **Low-fi Prototyping**

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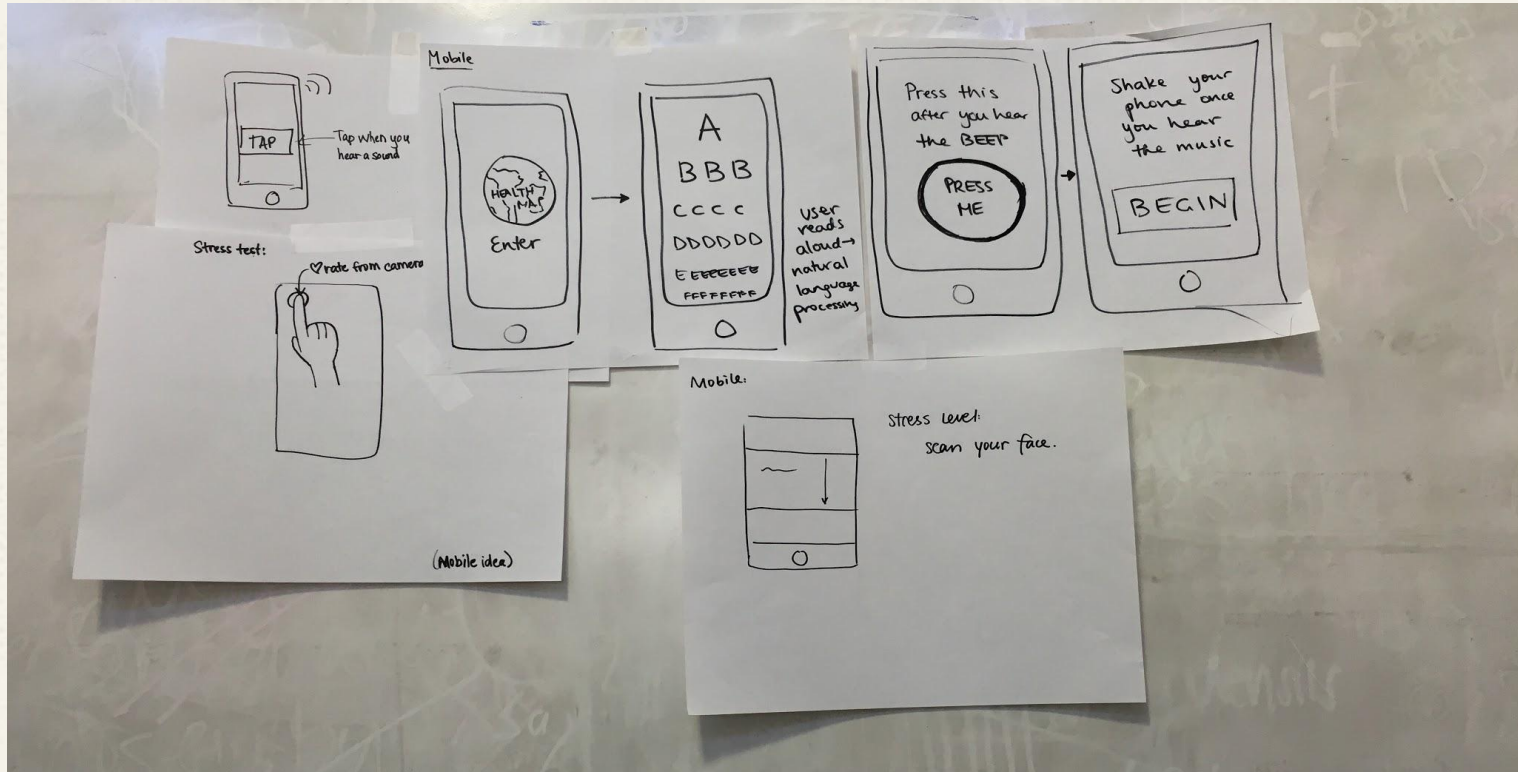
# MISSION

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HealthMap

*Stay **confident** and **accountable** about your health before getting in a car.*

# INTERFACE



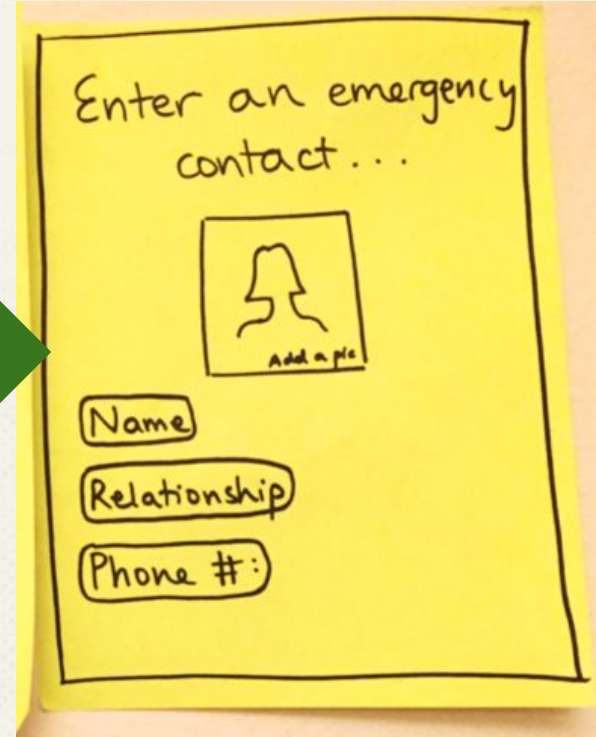
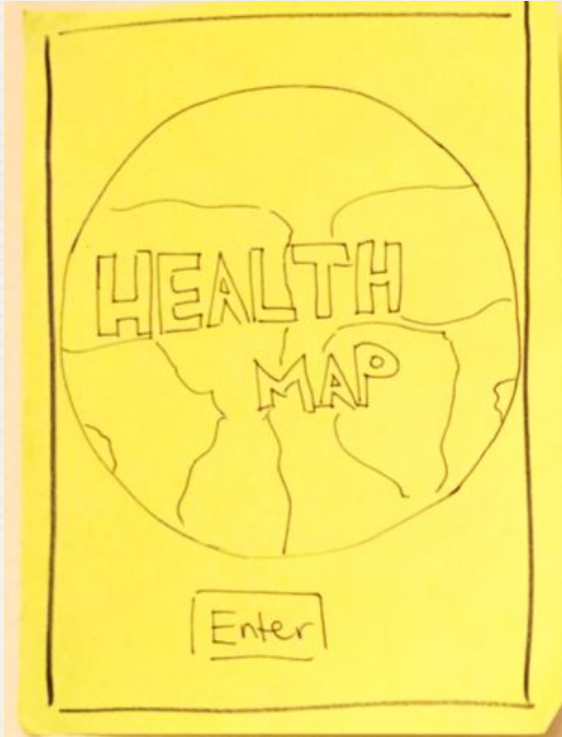
Why mobile?  
Quick & Efficient



# PROTOTYPE



# ONBOARDING



# TASK 1

vision



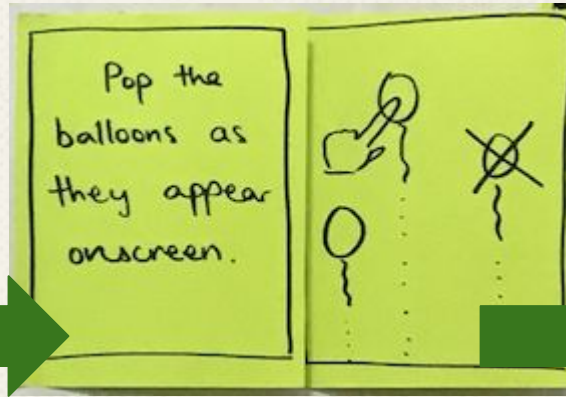
if passed

Hearing



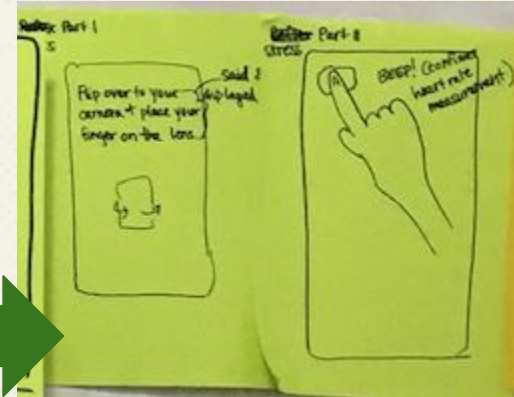
if passed

Reflex

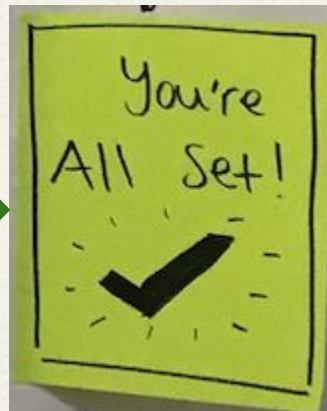


if passed

Stress



if passed all tests

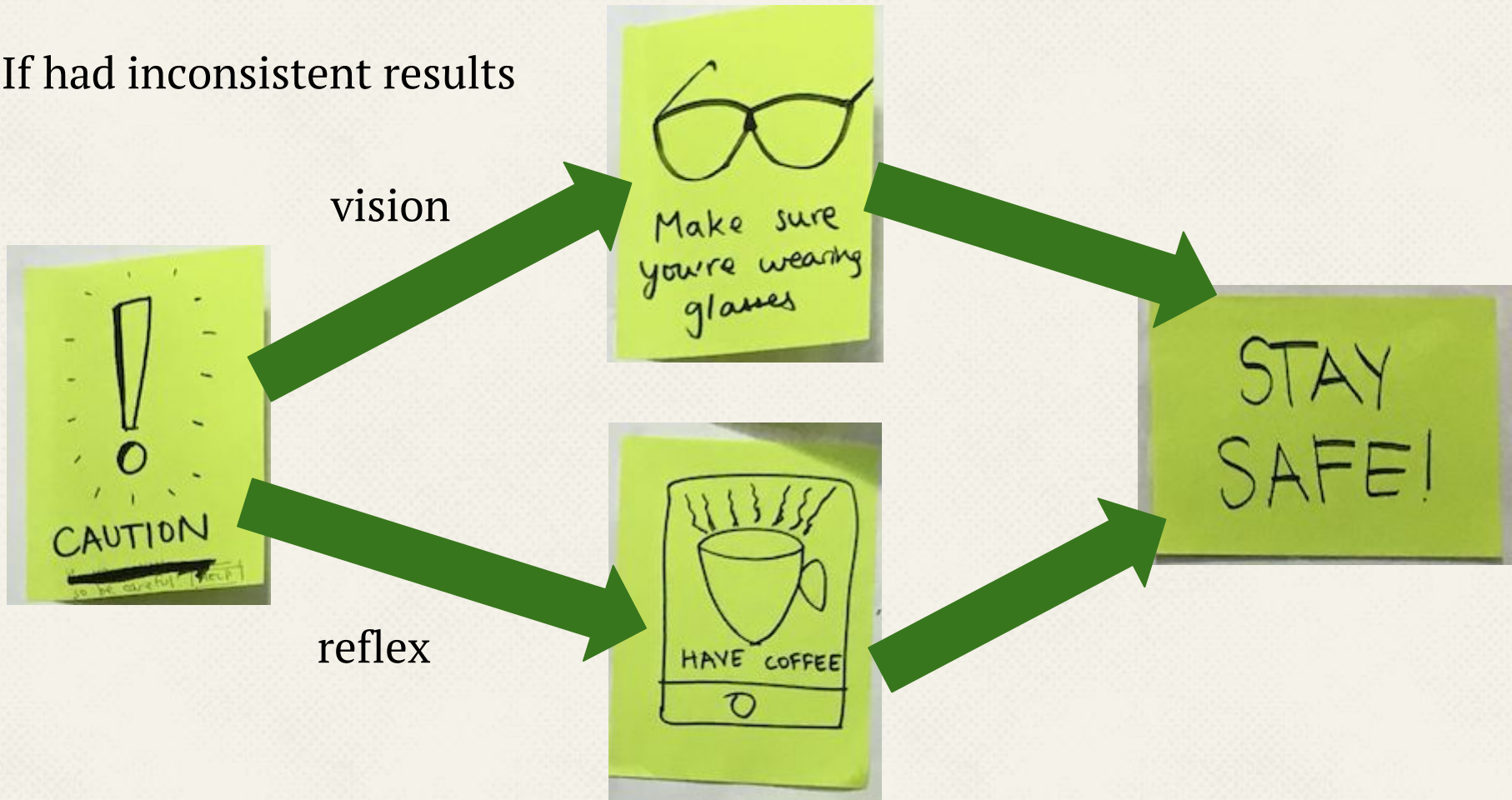


*"I want to know if I am fit enough to drive" – Complex*



# TASK 2

If had inconsistent results



*“I want to know how to be a safer driver” – simple*

# TASK 3

User



Taps CFH



EC accepts call



Emergency Contact



*“I want to get help when I need help” – moderate*

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# **Usability Testing**

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# METHOD

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3 participants @ Tresidder

- Diverse demographic background
- Not incentivized
- Given a scenario and asked to complete each of the 3 tasks



# RESULTS P1



Panda Express Employee  
19 yrs  
Commutes daily in car

- 😊 Quickly identified the intention of the product  
Appreciated relevance of the tests for driving
- 😞 Confused by the text description of vision test

# RESULTS P2



Entrepreneur

64 yrs

Commutes daily in car

😊 Excited about the reflex and stress tests

💡 Surprised that HealthMap is self-interpreted

Preferred to call 911 instead of preset emergency contact



# RESULTS P3



Teaching Staff

36 yrs

Commutes daily in car



Impressed with the stress test

Liked that HealthMap is easy to set up



Wanted to have an emergency call button without going through the tests

# LEARNINGS

- Make test description understandable
  - e.g., add audio cues + visual cues
- Change the size of the number in vision test
- Enable emergency calling that bypasses tests
  - e.g., user can dial 911 in one click.
- Feed user's and family's health information and history
  - e.g., this info will help paramedics in emergency



# SUMMARY

- Low-fi prototyping
- Prototype testing
  - Usability-wise
  - Feature-wise
- Hope to validate our design changes in future studies

**THANKS!**

*Any questions?*