



# Lensy

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# Overall problem

“American adults spend more than 11 hours per day watching, reading, listening to or simply interacting with media”

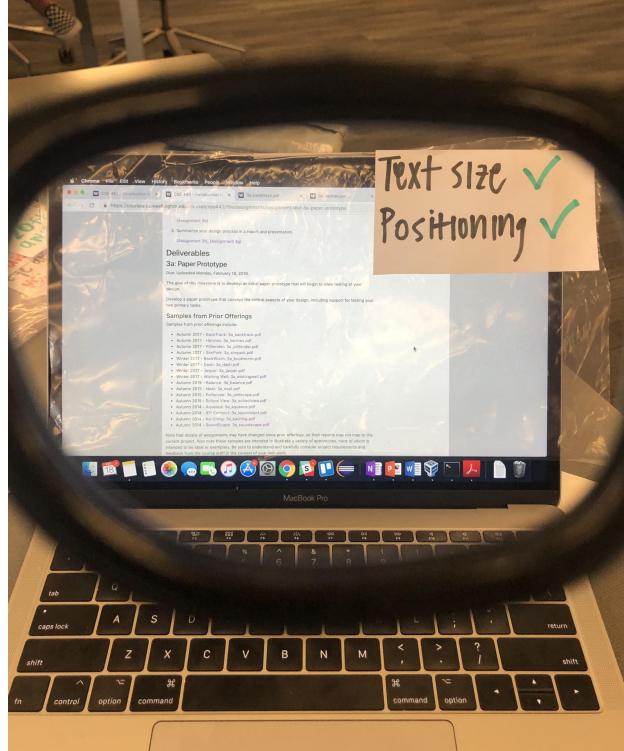
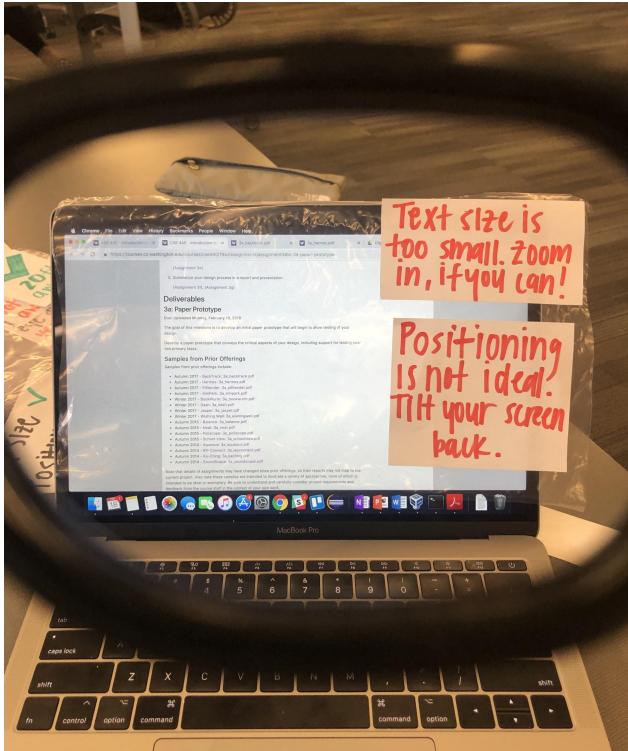
We are tied to our devices, but our eyes cannot cope. As our eyes begin to suffer, our ability to work for long periods of time decreases.



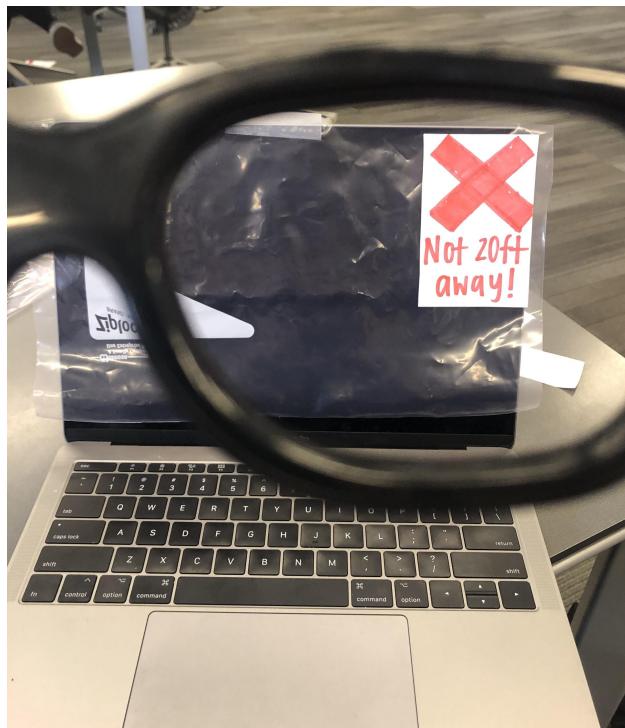
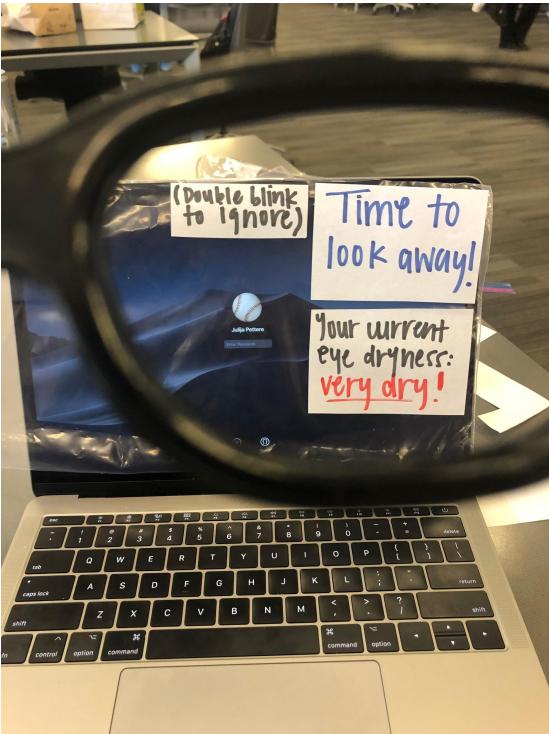
# **Initial Paper Prototype**

## **(Task 1)**

# Scan Environment



# Rest eyes reminder (1)



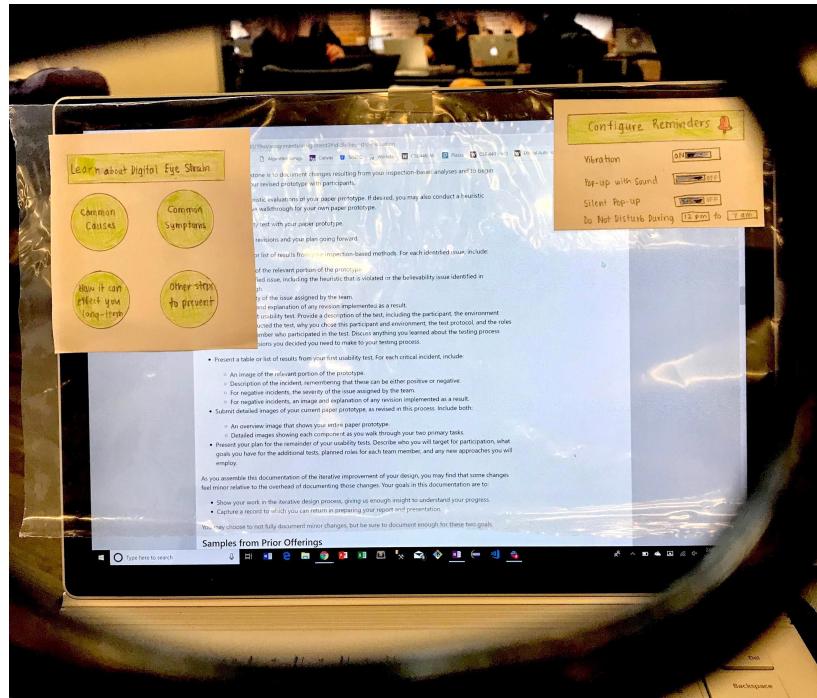
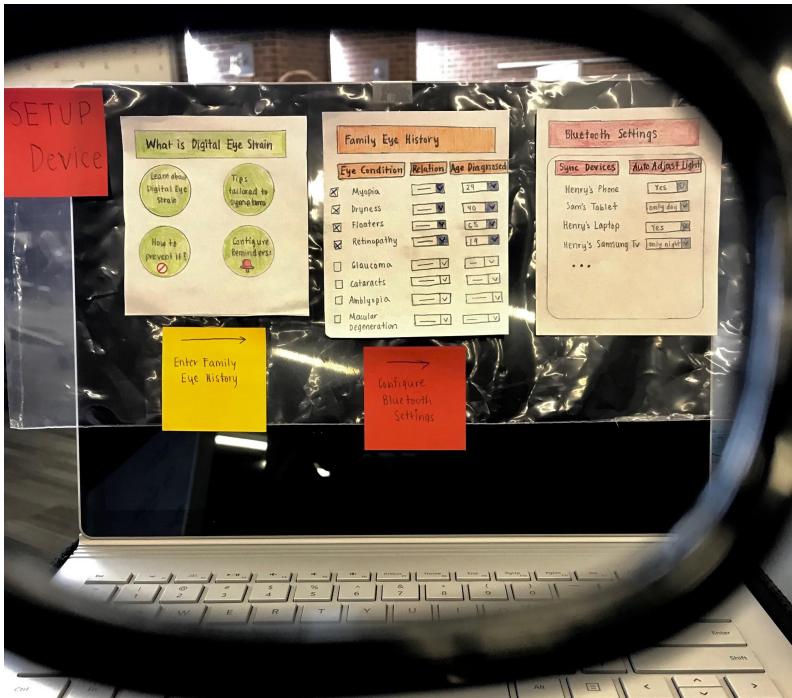
# Rest eyes reminder (2)



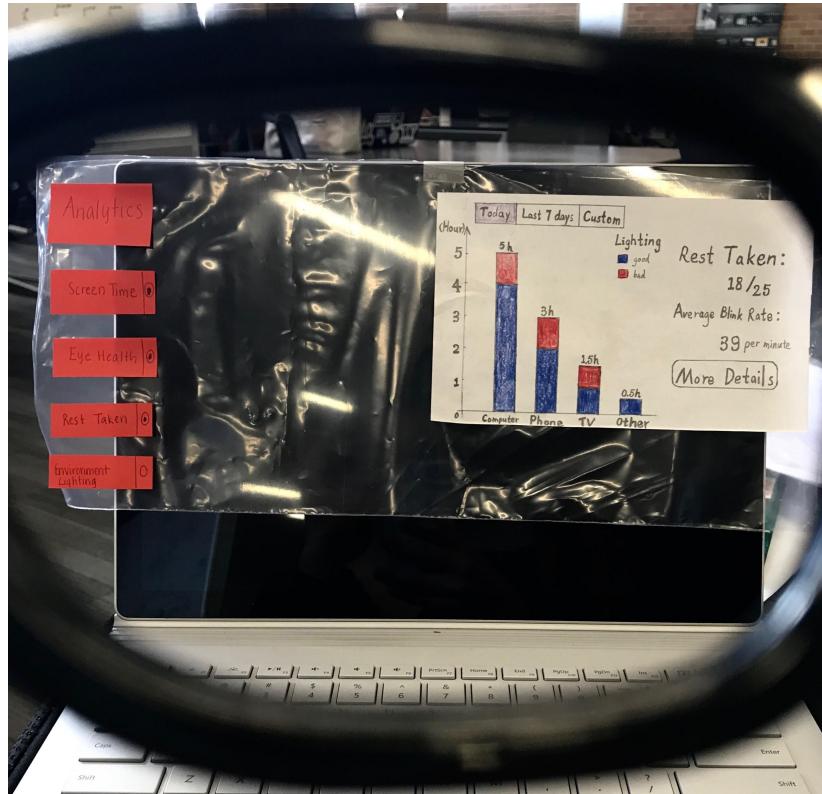
# **Initial Paper Prototype**

## **(Task 2)**

# Setup



# View analytics



# Testing Process

3 heuristic evaluations



3 usability tests

- Individuals suffering from digital eye strain
  - Varying tech savviness

# Testing Results - Heuristic Evaluations

No means to exit/close the page  
(Severity: 4)



- Home button
- Exit button / double blink to exit

Family eye history  
(Severity: 3)



- Multiple people and symptoms

Too much text in reminders  
(Severity: 2)



- Shorter text
- Tappable reminder for details

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# Testing Results - Usability Tests

Unsure of what homepage was  
and how to get there



- Menu button
- Sections shown on startup

No means to know current power  
state of glasses while on



- Power and battery button on top right corner

Unable to understand user  
can select buttons on screen



- “How to Navigate” pane on setup and “Help” section

Assumed basic knowledge of  
DES and how Lensy helps



- Explain Lensy on Startup
- Guide people to “Learn” section

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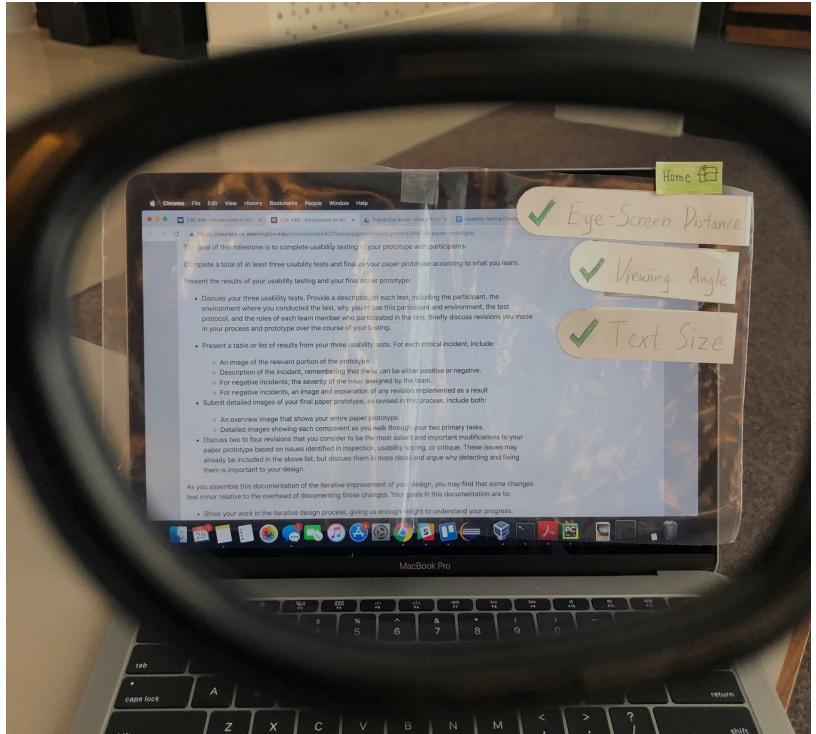
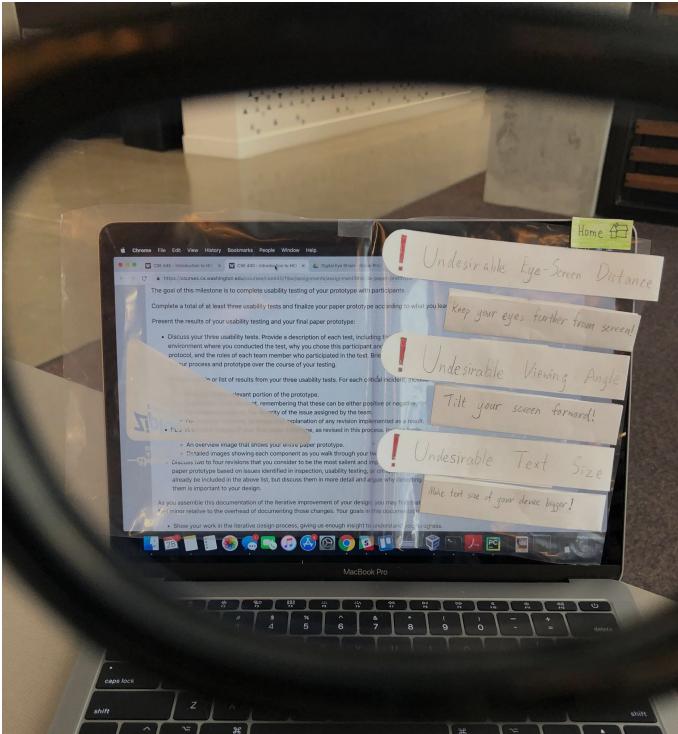


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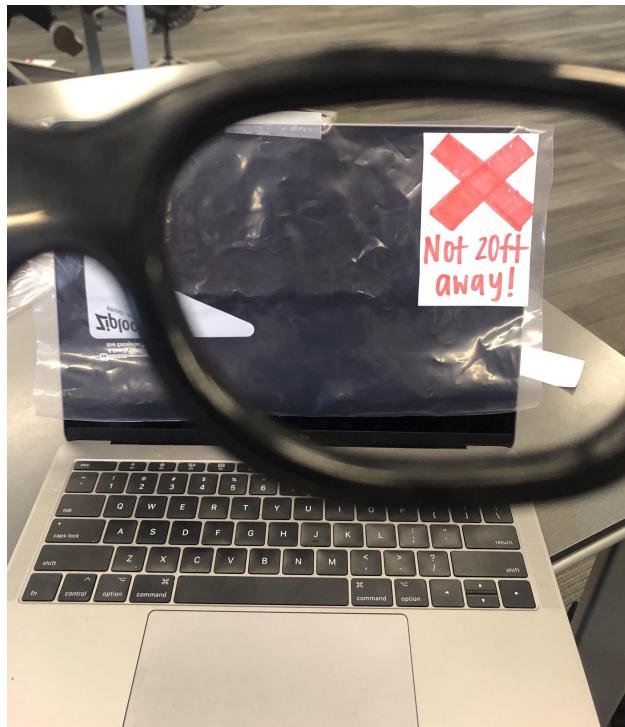
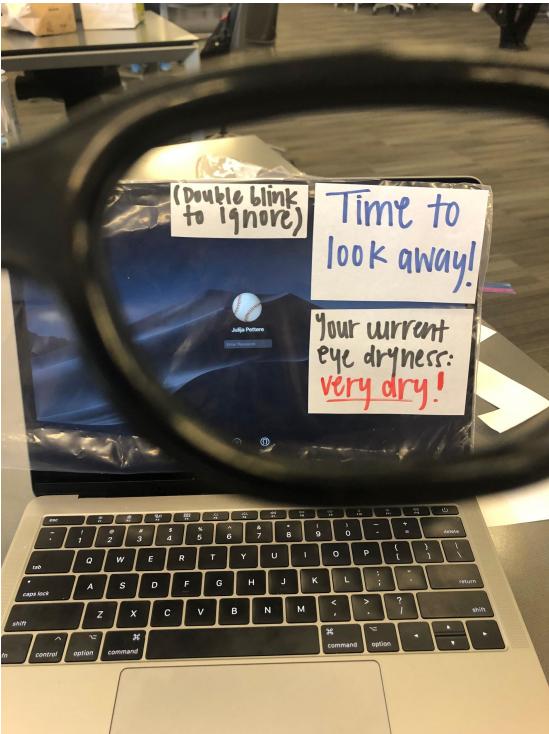
# **Final Paper Prototype**

## **(Task 1)**

# Scan Environment



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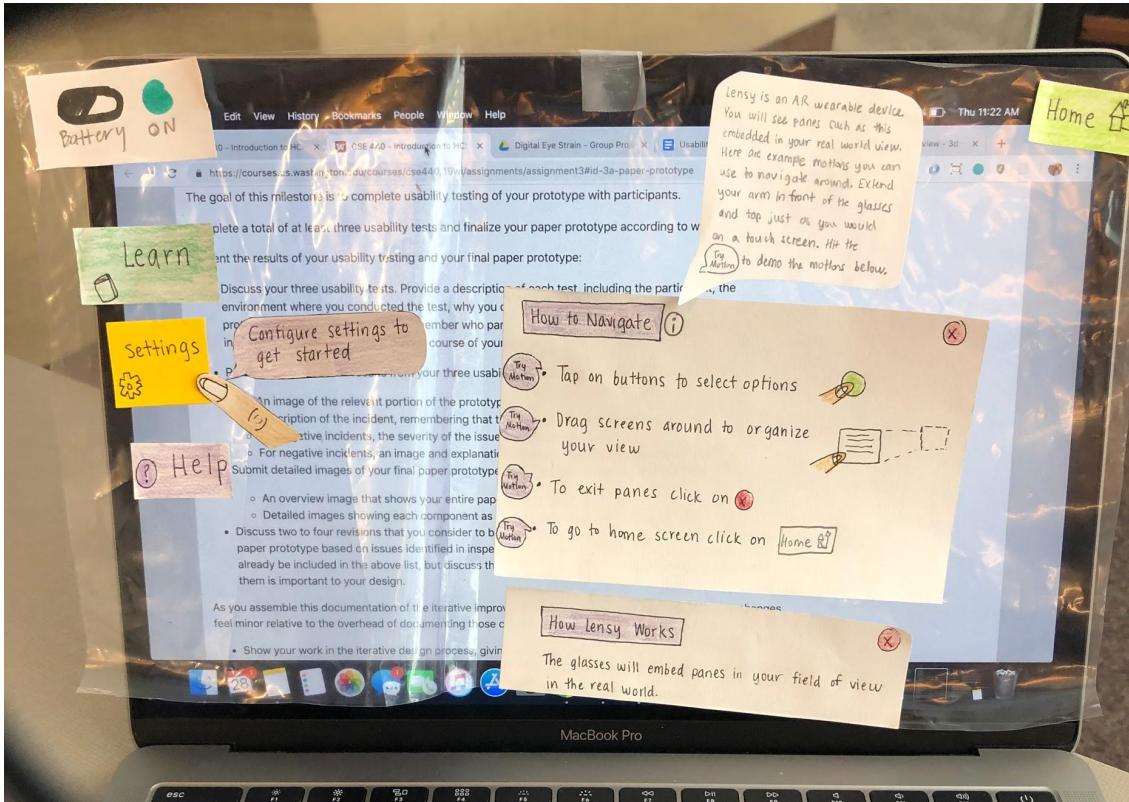
# Rest eyes reminder (2)



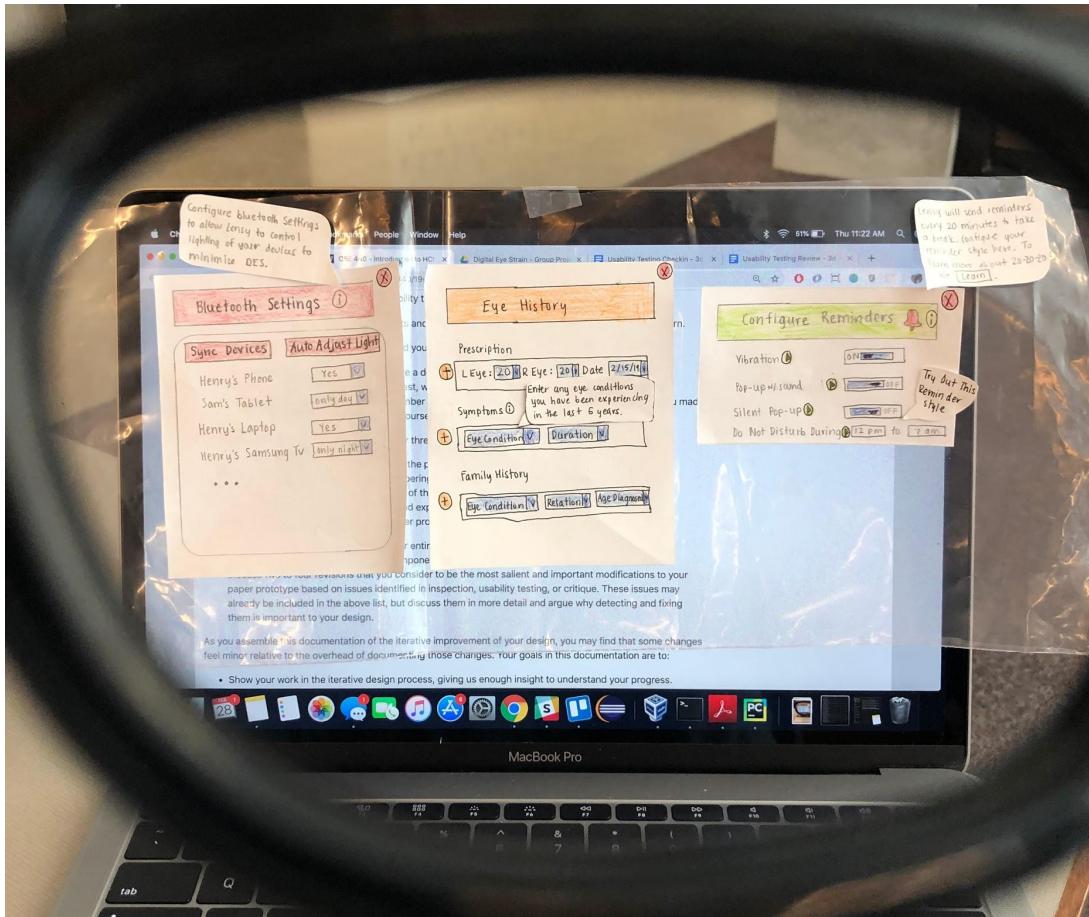
# **Final Paper Prototype**

## **(Task 2)**

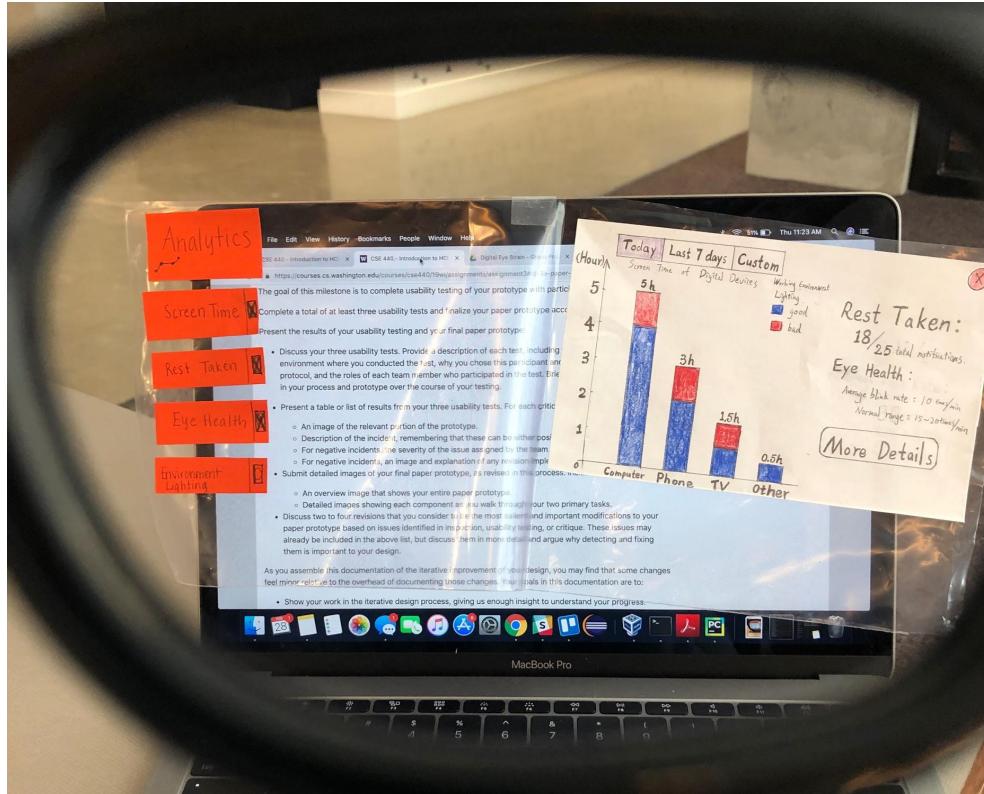
# Home



# Setup



# Analytics



# **Digital Mockup**

## **(Task 1)**

# Scan environment (1)



# Scan environment (2)



# Scan environment (3)



# Rest eyes reminder (1)



# Rest eyes reminder (2)



# Rest eyes reminder (3)



# Rest eyes reminder (4)



# **Digital Mockup**

## **(Task 2)**

# Home



# Help on navigation



# Setup



# Analytics

Select which DES Analytics you would like to see

Analytics

Screen Time

Rest Taken

Eye Health

Environment Lighting

Screen Time:

Today Last 7 Days Custom

Screen Time Lighting

Device	Satisfactory	Harmful	Total
MacBook Air	~5.5	~1.5	~7.0
Tom's iPhone	~2.5	~4.5	~7.0
Panasonic TV	~4.5	~1.0	~5.5
Apple Watch	~4.5	~2.5	~7.0

Device Usage Today

Device	Usage (%)
MacBook Air	~55%
Tom's iPhone	~25%
Panasonic TV	~10%
Apple Watch	~10%

More Details

Rest Taken:

Notifications Followed: 18/25 total

More Details

Eye Health:

Average Blink Rate: 10 times/min

Normal Range: 16 times/min

More Details

# Summary

- Just because it is clear to us how to use it doesn't mean it is clear to anyone else
- Users are hesitant to interact with AR
  - Need guided tutorial
- People want to feel *safe* using the glasses
  - Need a way to exit at all times
  - Need access to homepage and menu

**Thank you**

# Contribution Statement

**Amy Shah:** 33%; added elements for overview, summary, and tasks of prototypes

**Julija Pettere:** 33%; Laid out base presentation and added all prototype/mockup elements

**Max Ding:** 33%; added elements for tasks of prototypes and wrote the overall problems