

#### 100% focus, wherever you are

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### Meet Jim

- Jim is 2nd year college student at UW
- He **lives with two other people** in the college dorm sized for 2
- Since starting at UW, he's finding it difficult to balance his social, academic, and work life
- Constantly getting distracted
- Needs **social accountability** to get his work done





# Hours of productivity are lost to everyday distractions



#### 100% focus, wherever you are.



#### Task 1: Feel motivated to work Task 2: Remove distractions

## INITIAL PAPER Prototype

#### KEY ELEMENTS OF OUR DESIGN

- VR/MR Headset
- Low-Latency Cameras
- Sensors
- Noise Filtering
- Visual Filtering









- Portable
- Accessable
  - Non-invasive
  - $\circ$  Works with glasses
- Comfortable
- Visual + audio







#### INITIAL PAPER PROTOTYPE OVERVIEW

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#### TASK 2: REMOVE DISTRACTIONS







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## TESTING PROCESS AND RESULTS

#### TESTING PROCESS

#### Tests:

- 2 Heuristic Evaluations
- 3 Usability Tests
- Usability Test Participants
  - $\circ$  2 UW undergraduate students
  - $\circ$  1 UW graduate student

#### Scenarios:

- You would like to feel like you are studying in a library with other people.
- You would like to feel like you are studying alone in the coffee shop.
- You would like to change some settings in your virtual environment.
- You would like to upload a picture, and put yourself in that virtual environment.

## WE CONDUCTED TWO USABILITY STUDIES...

Then reflected on our design



We realized our design was getting very complex.

Users in our first two usability studies suggested such great features!

- Night mode
- Upload custom music
- Upload custom background
- In-app push notifications
- etc...

But fundamentally, we want to increase user FoQus...



• What does it mean to increase focus?





Mobile Companion App

- Custom backgrounds -> Cut
  - Too much customizability -> more distractions
  - Too many steps -> slow startup time
- Custom music -> Redesign
  - Too many steps -> slow startup time
  - User enjoys music -> Motivates user

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• What does it mean to increase focus?



#### USABILITY TESTING PROCESS REFINEMENTS

- Removed Task 4
  - Removed the mobile companion app
- Asked more questions about user confusions
  - Let user explain confusions
  - Clearer direction to solve issues

#### TESTING FINDINGS

- Visibility of system status
- User control and freedom
- Aesthetic and minimalist design
- Help and documentation

#### DESIGN REFINEMENTS

- Visibility of system status
  - Showed workstation selection boundaries on screen.
  - +2 more...

- Help and documentation
  - Added info buttons to each page for a more details
  - +5 more...

- User control and freedom
  - Back buttons added to each page
  - **+1 more...**

- Aesthetic and Minimalist Design
  - Uploading music flow changed to bluetooth streaming flow
  - +2 more...

## FINAL PAPER Prototype

#### FINAL PAPER PROTOTYPE OVERVIEW











#### FINAL PAPER PROTOTYPE OVERVIEW





#### IMPROVEMENT 1:

Visibility of system status

Showed workstation selection boundaries on screen.





#### IMPROVEMENT 2:

Aesthetic and Minimalist Design

Uploading music flow changed to bluetooth streaming flow







Select Background

Library

Cottee shop

Custom: Park

User control and freedom

Back buttons added to each page Confirmation buttons added

Do you want to work around

other people ?

Yes

NO



G , Do you want to work around other people? Yes NO

#### IMPROVEMENT 4:

Help and documentation

Added info buttons to each page for a more details





### DIGITAL MOCKUP

#### DIGITAL MOCKUP OVERVIEW



#### DIGITAL MOCKUP OVERVIEW















#### TASK 2: REMOVE DISTRACTIONS











### SUMMARY

## SUMMARY

- Always keep your design problem in mind
- Clarity and simplicity are key for our users
- Prioritize the most important features to your tasks



- Form factor options
- More accessible
- More customization in a less distracting way

