#### **CS 147: Assignment 2** POVs & Experience Prototypes John M, Gabriella B, Brian H, Nate L

We met ... very busy studen Swra, a very busy studen Uhu wanted to get more out of her daily schedule. Were amazed to realize...

niche productivity apps consistantly.

o People use the same 2/3 apps (notes, calls, list makers) to Productive

Sad is fued

sy are

# Habits Productivity **Sleep**

### Needfinding

### POVs & HMWs

### **Experience Prototypes**

### Needfinding

### POVs & HMWs

### **Experience Prototypes**



### Interviews

### Survey

#### You and Your Sleep Habits

A brief survey to assist with a team of Stanford Students in developing a tool to help you sleep

\* Required

How many hours of sleep do you usually get a night? \*

- 9 or more
- 7 to 8
- 6 to 7
- 5 to 6
- Less than 5

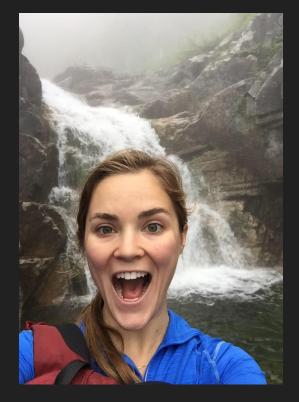
How do you decide when to go to bed? \*



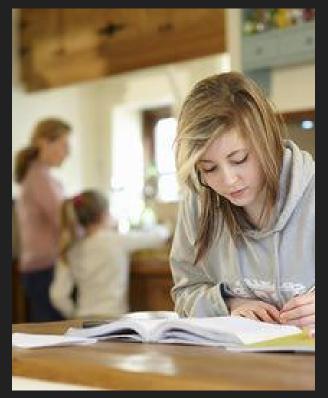


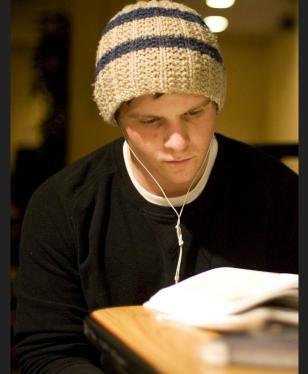


Rotto



Tara

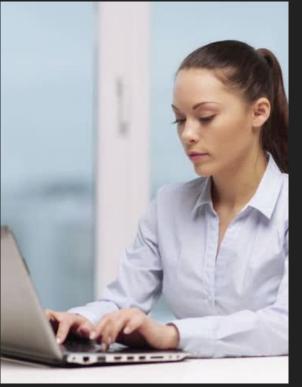




High School Student

#### College Student

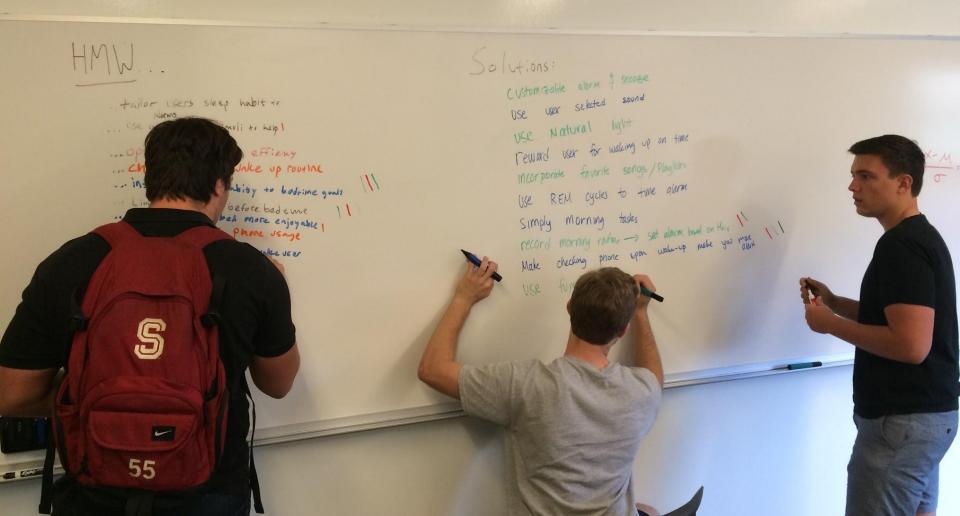




### Needfinding

### POVs & HMWs

### **Experience Prototypes**



### How might we...

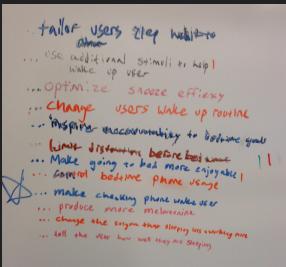
#### High School Student:

tailor users they webit to ... Use additional stimuli to hop ! wake up user ... optimize snooze efficiency ... change users while up to ... "Aspine macowinding to bed ... Make going to bed more enjoy. ... Make going to bed more enjoy. ... control bedtime phone usage ... make checking phone wake user ... produce more melantonine ... change the soign that sliceing liss = work ... tell the user have well step we sleeping

#### **College Student:**

olutions: ·Customizable alorm 3 succe · USE user selected sound · USE NATURAL LIGHT (1 · reward user for walking up on time 1 · Incorporate user's favorite MUSIC · USE REM CYCLE TO TIME ALAR SIMPLEY MORNING TASKSI ·record morning ration -> set alarm based . Make checking phone upon water-up M · USE FUMMY gife / photos/videos as well · USE NON-CONVENTIONAL WAKE UP MATL • TRACK SLEEP DEBT

#### Young Professional:



### How might we...

High School Student: College Student:

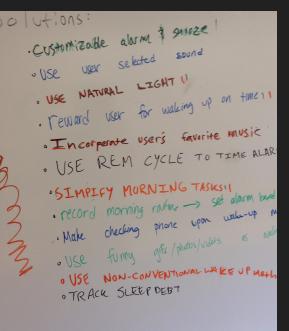
... make waking up more enjoyable for the user? ...inspire accountability to set and accomplish bedtime goals? Young Professional:

... help users feel more alert when they wake up?

### **Solutions for...**

#### Enjoyable Wake Ups: Inspiring Accountability: Alert Wake Ups:

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tailer users ster webitto and is additional stimuli to help 1 wake up user optimize shooze efficiency change users where up routine is and instruction before bed and himle going to bed more enjoyable is formed bedgive phone usage is produce more metworked of produce more metworked. Enjoyable Wake Ups: Inspiring Accountability: Alert Wake Ups:

Customize morning routine with a wearable watch Track sleep debt and give recommend sleep goals using schedule

**Change the** sleep environment when it's time to wake up

### Needfinding

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### **Experience Prototypes**

### **Experience Prototypes**

#### iWake



#### Wake Up Call



#### **Rise & Shine**



### **iWake: Development**







## iWake: Testing



#### Input Desired Settings

#### Set Nightly Alarm





#### Wake Up and Complete Morning Routine

### **iWake: Results**



"Can I wake up to the sound of my wind chimes?" "I try to count backwards, it takes way too long"

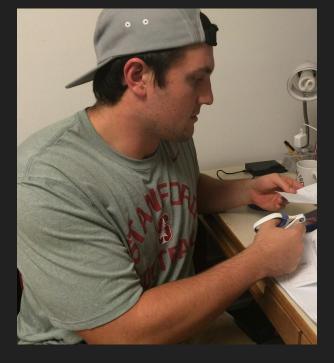


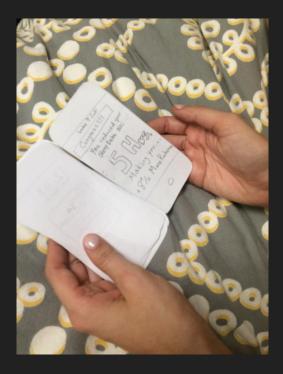


"It took me only 20 minutes to get out the door!"

### Wake Up Call: Development







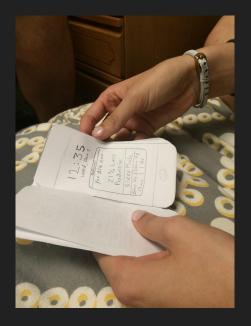
## Wake Up Call: Testing



See your "Optimal" Sleep Schedule

## Alerts regarding loss of productivity before bedtime





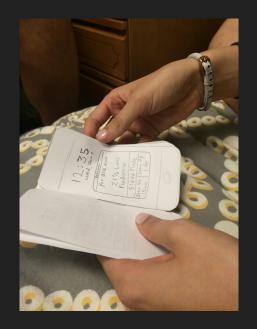
#### Chose to stay up and work or go to bed

## Wake Up Call: Results



"Oh, now I get it. The shaded parts are when I sleep." "6% is not that much less productive. I think I would still stay up to get my work done. I would want to just crank it out"





"hmm.. now i'm going to be 21% less productive. that's a lot. maybe i'll just go to sleep."

### **Rise & Shine : Development**







## **Rise & Shine: Testing**

# Meditate to reach a point of restfulness





### WAKE UP!

Select desired wake up method

## **Rise & Shine: Testing**



"I'd either use the water or make my bed cold, or both" "I would definitely use this if I HAD to be up"





#### "Ah! I'm up, I'm up!"

### Findings: IWake:

- Custom snooze
- Custom alarm
- Unaware of the time it takes
- Enjoy knowing time it takes
- **x** Favorite app helps

Tracking movement would help with getting out of bed.

#### Wake Up Call:

 Sleep work conflict
"Sleep mode"
Loss in productivity encourages sleep
Schedule sleep is Rare
Alerts before bedtime **Rise and Shine:** 

 Water
Cold bed
Sounds
Lights flashing
Non-Traditional methods are prefered to alarms

Alerts must be made minimally and at key times. Users want this when sleeping in is not an option.

### Needfinding

### POVs & HMWs

### **Experience Prototypes**

### **Questions?**