



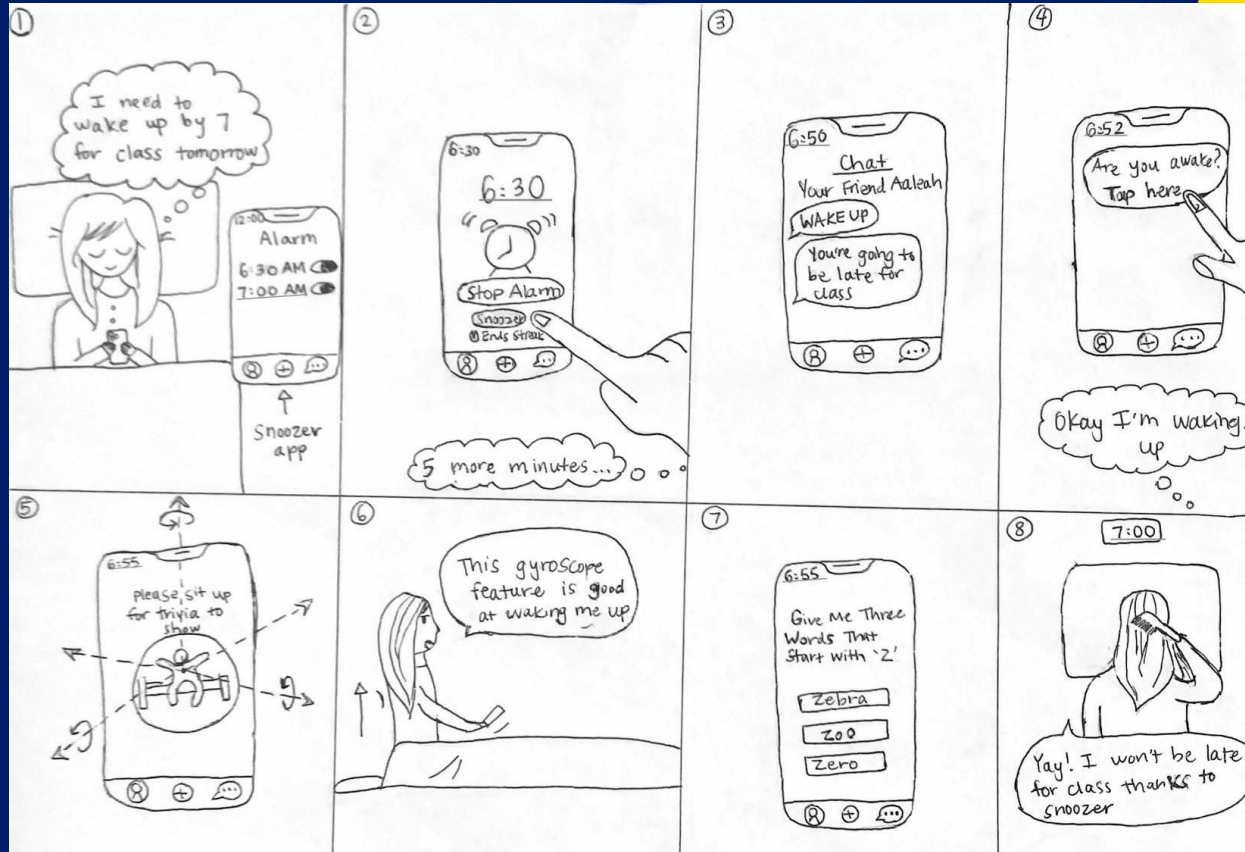
SNOOZER

zzzz

MIDTERM PRESENTATION

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A Story...



Refresher

Main concerns

- People oversleeping and not using alarms to full potential
- People snoozing
- It ruins routine! Which makes it harder to be productive on a day to day basis.
- Most time on their phones

Solution: Snoozer app for Undergraduate students, friends will wake you up if you hit snooze



Functional Features

1. Users will be able to wake up on time
2. Users will be able to feel haptic vibrations
3. Users will be able to interact with gyroscope
4. Users will be able to message friends
5. Users will be able to answer questions to turn off alarm



Technical Features

1. Application will be able to detect via backend if user has stood up
2. Application will be able to generate questions via backend
3. Application will be able to connect with other users through backend
4. Application will have an API to include messaging functionality



Usability Features

1. Application will support mobile users
2. Application will be able to stop the alarm once they've answered the questions



Code Spec - Primary

1. Alarm Setting and Wake Up

- a. `AlarmManager`: A class to manage alarm creation, modification, and deletion.
- b. `AlarmScheduler`: A class responsible for scheduling alarms using `UNNotificationRequest`.
- c. `WakeUpViewController`: A view controller displayed when an alarm goes off.

2. Haptic Feedback

- a. `HapticManager`: A class to handle haptic feedback using `UIImpactFeedbackGenerator`.

3. Gyroscope Interaction

- a. `GyroscopeManager`: A class to manage gyroscope data using `CoreMotion`



Code Spec

4. Chat Methods

- a. `CommunicationManager`: A class to manage all chats coming in/out

5. Questions to Turn Off Alarm

- b. `QuestionManager`: A class to generate and manage questions or puzzles.
- c. `QuestionViewController`: A view controller that presents questions to the user and validates their answers.

Secondary

6. Streak Keeping

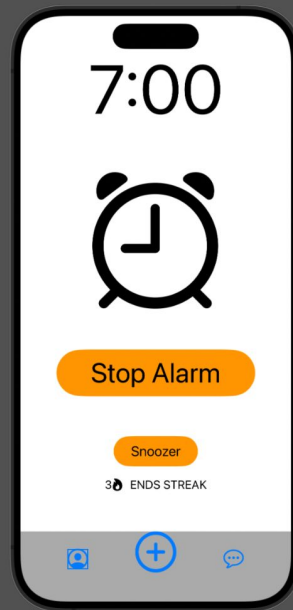
- d. `StreakManager`: A class to track and update wake-up streaks.
- e. `StreakViewController`: A view controller to display user's current streak.



Current Progress

```
1 //
2 // ContentView.swift
3 // Snoozer
4 //
5 // Created by David Strupinski on 2/8/24.
6 //
7
8 import SwiftUI
9 import UIKit
10 import CoreHaptics
11
12 struct ContentView: View {
13     var body: some View {
14         VStack {
15             Text("7:00")
16                 .font(.system(size: 100))
17
18             Image(systemName: "alarm")
19                 .resizable()
20                 .scaledToFit()
21                 .frame(width: 200, height: 200)
22
23             Button(action: {
24                 print("Alarm Stopped")
25             }) {
26                 Text("Stop Alarm")
27                     .font(.system(size: 40))
28                     .padding(.horizontal, 50)
29                     .padding(.vertical, 10)
30                     .background(Color.orange)
31                     .foregroundColor(.black)
32                     .clipShape(Capsule())
33             }
34                 .padding(50)
35
36             Button(action: {
37                 print("You Snooze You Lose")
38             }) {
39                 Text("Snoozer")
40                     .font(.system(size: 20))
41                     .padding(.horizontal, 25)
42                     .padding(.vertical, 10)
43                     .background(Color.orange)
44                     .foregroundColor(.black)
45                     .clipShape(Capsule())
46             }
47         }
48     }
49 }
```

ContentView



Automatic - iPhone 15 Pro

Search icons



Proposed Timeline



Feedback we'd like to get

- Are there other features we should consider for social accountability?
- ★ ● Do you think this is a reasonable application to use daily?
- ★ ● Is friend messaging effective for waking users up?



THANK YOU

