



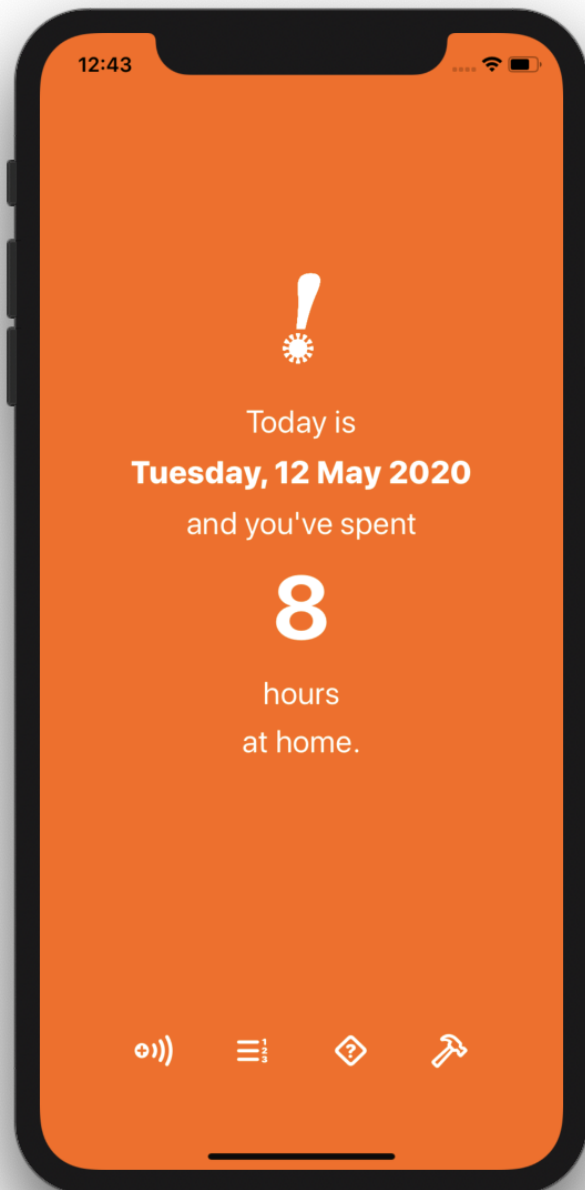
User Manual and Technical Documentation

By David Acheampong, Josh Zhong, Will Suitor

User Manual

Thank you for downloading CoronAvoid! We hope it will help you feel safer and stay healthy during this CoronaVirus outbreak.

CoronAvoid provides a helpful Beacon feature that detects other iPhones to alert you of inadequate social distancing, as well as a Stay Home Streak which you can compare with others around the world on the Leaderboard. CoronAvoid also provides links to US-based resources that may be helpful during the pandemic.



The Home Screen

This is the first screen you will see after signing in with your Google account and allowing Location Services (required for Ranging feature).

Here you'll see the current date and your Stay Home Streak. Your Stay Home Streak is calculated by the time since last using the Beacon feature.

Below you will see four buttons:



Beacon View



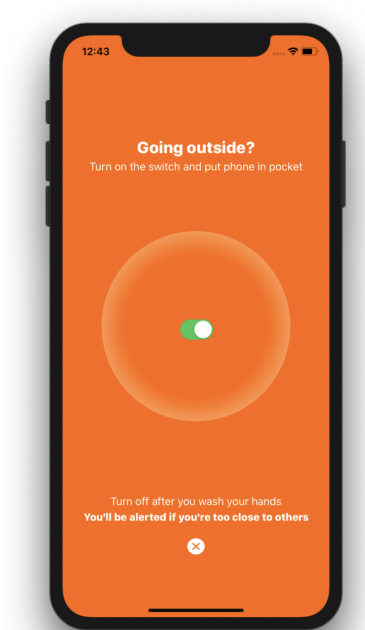
Leaderboard View



Resources



Settings



Beacon View

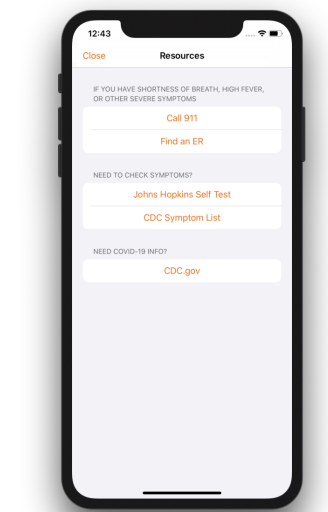
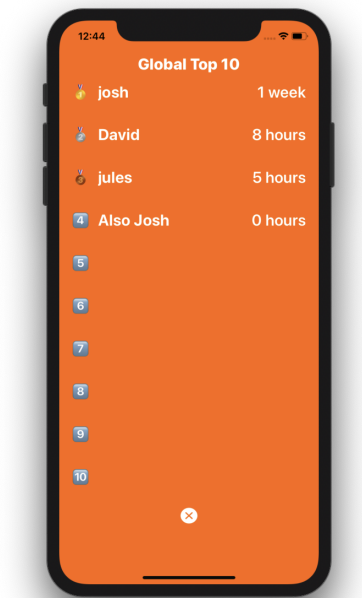
Flip the switch to turn on the Beacon feature.

When two iPhones have this switch flipped on and are within 6 foot proximity, both phones will vibrate and play an alert sound, alerting the users to stand clear of one another.

(Note: iPhone must remain active with this view on screen for the Beacon feature to function)

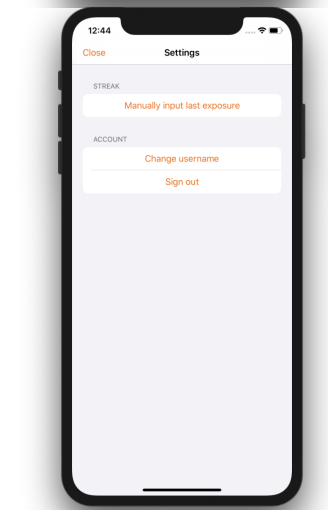
Leadboard View

This is where you can see your position and compete with other users around the world to create the longest Stay Home Streak.



Resources

Here you'll find helpful COVID links and resources.



Settings

Here you can change your username and manually input a last exposure date to help better track symptoms and incubation periods.

Technical Documentation

CocoaPods/APIs

AVFoundations
AudioToolbox
CoreLocation
CoreBluetooth
Flirebase
FirebaseAuth
GoogleSignIn

Outside Elements

Date Extension in HomeViewController and LeaderboardViewController lifted and modified from here -> <https://stackoverflow.com/a/27184261>

Cough sound taken from FreeSound.org here, licensed under Attribution License of Creative Commons -> <https://freesound.org/people/joedeshon/sounds/266019/>

Team Member Contribution

David Acheampong: Lead engineer on Firebase database and authentication implementation.

Will Suitor: Lead engineer on iBeacon and CoreLocation API implementation.

Josh Zhong: Secretary. Graphic and UI designer. Lead UX designer and integrator.

Compilation Instructions

Install Pods
Ensure "Pods_CoronAvoid.framework" is embedded and signed
Change Bundle Name if running on simulator
Run on latest version of iOS