

# GeoCatcher README File

**Name of Project:** Geocatcher

**Team Members:** Brian Herron, Christopher Lee, Justin Vu, Jayashree Ganesan

**List of Dependencies:** Firebase w/ FirebaseAuth, FirebaseFirestore, FirebaseFirestoreSwift, Xcode 14.0, Swift 5

## Special Instructions:

- Use a iPhone 14 simulator
- If necessary, re-install Firebase (not an issue with app, just an issue with Firebase)
- For resetting the password:
  - Do NOT use an @utexas email for resetting the password, it doesn't work for some reason (regular gmails do, though)
  - Don't forget to check the spam folder.
- Recommended to build from XCode to download the app once. Then run on the phone as a normal app.
- Put the iPhone on light mode.

## Required Feature Checklist

- ☒ ~~Login/register path with Firebase (Done)~~
- ☒ ~~"Settings" screen and the three behaviors implemented are: (Done)~~
  - ☒ ~~Notifications Distance (Done)~~
  - ☒ ~~Enable Notifications (Done)~~
  - ☒ ~~Reset Tutorial (Done)~~
- ☒ ~~Non-default fonts and colors used (Done)~~

Two major elements used:

- ☒ ~~Core Data (Done for Past Caches)~~
- ☒ ~~User Profile path using camera and photo library (Done)~~
- ☐ Multithreading
- ☐ SwiftUI

Minor Elements used:

- ☒ ~~Two additional view types such as sliders, segmented controllers, etc. the two we implemented are: Image View on all the backgrounds, Slider on the notifications distance in settings, segmented control in the Create Cache VC for difficulty~~

One of the following:

- ☒ ~~Table View (on Settings)~~
- ☐ Collection View
- ☒ ~~Tab VC (On Home Screen / MapViewController)~~
- ☐ Page VC

Two of the following:

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- ☒ Alerts ~~(Done)~~
- ☒ Popovers ~~(Done)~~
- ☐ Stack Views
- ☐ Scroll Views
- ☐ Haptics
- ☐ User Defaults

At least one of the following per team members:

- ☒ ~~Local notifications (Done via Notifications on Settings + Caches by Chris)~~
- ☐ Core Graphics
- ☐ Gesture Recognition
- ☒ ~~Animation (Done via Tutorial by Justin)~~
- ☐ Calendar
- ☐ Core Motion
- ☒ ~~Core Location/ Mapkit (Done via MapView on Home Screen by Justin)~~
- ☐ Core Audio
- ☒ ~~QR Code (Done Via QR ViewControllers by Brian)~~

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Work Distribution Table

Required Feature	Description	Who/Percent Worked On
Login/Register/Reset Password	Allows user to create account, login, and reset password	Christopher (100%)
UI Design	Layout of items on view controllers and constraints; colors, fonts, and background images	Jayashree (70%) Justin (30%)
Settings	Allows users to enable/disable notifications, set notifications distance, reset tutorial, log out, and delete accounts.	Christopher (40%) Justin (40%) Brian (20%)
User Profile Path + Edit Profile	Displays user information and amount of finds. Allows users to edit profile info and picture w/ camera or photo library	Christopher (100%)
GPS Map View/Home Page	Allows users to see caches on map. Includes tab controller to navigate.	Justin (100%)
QR Code Scanner	Allows users to scan caches so that they can be added to the map view, and also collect caches.	Brian (100%)
Create Cache + All Related VCs	Includes CreateCacheVC, ConfirmationVC, QRGenVC. Lets users create a geocache via QR code with necessary information.	Justin (80%) Brian (20%)
Cache	Actual display of cache view controller and its information.	Brian (80%) Justin (20%)
Past Caches	Lets users see past caches that have been collected.	Justin (100%)
Tutorial	Allows users to see basic animated tutorial after signing up, and after logging in if "reset tutorial" is pressed in settings.	Justin (100%)
Other Elements	Debugging and troubleshooting a variety of different features across the project	Justin (50%) Christopher (35%) Brian (15%)