

App Maintenance Documentation

Install Instructions

install instructions, especially requirements or assumptions about the target environment

Flutter

Our app was created with the Flutter SDK. Flutter makes it easy to deploy an application to iOS and Android, but our app is solely targeted for iOS at the moment.

NOTE: we had a lot of difficulties successfully setting up the Flutter environment, so please reach out to us if you have any questions.

OS: Since developers must be using XCode to run a simulator of the application, they are only able to develop on a macOS.

Installation

1. Download the latest version of the Flutter SDK from <https://docs.flutter.dev/get-started/install/macos>
2. Follow the instructions on the link in step 1 to extract the file in the desired location and add Flutter to your PATH
 - a. When you clone the repository, it MUST be in the location you set your PATH to

CocoaPods

You will need to install CocoaPods in order for the Flutter plugins to work. You can do this by following the instructions on this link: <https://guides.cocoapods.org/using/getting-started.html#installation> (essentially just running `$ sudo gem install cocoapods` in terminal)

Updating

- Flutter: To upgrade your Flutter SDK, run **flutter upgrade** in your terminal
- CocoaPods: to update CocoaPods, just install it again by running `$ sudo gem install cocoapods`

XCode

We used XCode to run simulations of our app on iOS devices.

Installation

Download XCode from the App Store if you don't have it installed on your computer already.

Running the Simulator

You will find the runner for the simulator in the location:

`/projectGroupMessage/rally_app/ios/Runner.xcworkspace`. Simply double click it to open up the project in XCode, select whichever device you want to run the application on (we have been using iPhone 12), and press the run button

Coding

We recommend against using XCode to code for Flutter, as it does not support formatting and other helpful features that other source-code editors enable. We all used **Visual Studio Code** for development, and found the Flutter Extension Pack extremely helpful in debugging, formatting, and autocompleting. The package can be found here:

<https://marketplace.visualstudio.com/items?itemName=GulajavaMinistudio.complete-flutter-extension-pack>

Firebase

A comprehensive guide to setting up Firebase with an ios flutter app can be found on the link below.

<https://firebase.google.com/docs/flutter/setup?platform=ios>

You can track firebase package updates here:

- Firebase_core
 - https://pub.dev/packages/firebase_core
- Firebase_auth
 - https://pub.dev/packages/firebase_auth
- Cloud_firestore
 - https://pub.dev/packages/cloud_firestore/
- Firebase_storage
 - https://pub.dev/packages/firebase_storage/

Changing Non-Programming Components

- Firestore Storage - Firestore requires payment when you exceed the free trial's allowance. Our app currently is synced to our personal credit card and is set to a maximum to ensure we don't pay past our amount of free credits. As more photos get uploaded, this maximum may get hit and should be raised if needed.
- You can edit data within **fields** in the Firebase database by simply going to the console and changing information there, however you SHOULD NOT create or destroy fields of data in Firebase or it will cause major errors in the code

List of Tools

Dependencies

- Flutter 2.5.3
 - <https://docs.flutter.dev/get-started/install>
 - https://raw.githubusercontent.com/flutter/engine/master/sky/packages/sky_engine/LICENSE
- Dart 2.14.4
 - <https://dart.dev/>
 - <https://github.com/dart-lang/usage/blob/master/LICENSE>
- Flutter_launcher_icons: ^0.9.2

- https://pub.dev/packages/flutter_launcher_icons
 - https://pub.dev/packages/flutter_launcher_icons/license
- Firebase_core: ^1.10.0
 - https://pub.dev/packages/firebase_core
 - https://pub.dev/packages/firebase_core/license
- Firebase_auth: ^3.2.0
 - https://pub.dev/packages/firebase_auth
 - https://pub.dev/packages/firebase_auth/license
- Cloud_firestore: ^3.1.0
 - https://pub.dev/packages/cloud_firestore/
 - https://pub.dev/packages/cloud_firestore/license
- Firebase_storage: ^10.1.0
 - https://pub.dev/packages/firebase_storage/
 - https://pub.dev/packages/firebase_storage/license
- Google_fonts: ^2.1.0
 - https://pub.dev/packages/google_fonts
 - https://pub.dev/packages/google_fonts/license
- Cupertino_icons: ^1.0.2
 - https://pub.dev/packages/cupertino_icons
 - https://pub.dev/packages/cupertino_icons/license
- Provider: ^6.0.1
 - <https://pub.dev/packages/provider>
 - <https://pub.dev/packages/provider/license>
- Image_picker: ^0.8.4+4
 - https://pub.dev/packages/image_picker
 - https://pub.dev/packages/image_picker/license
- Permission_handler: ^8.3.0
 - https://pub.dev/packages/permission_handler
 - https://pub.dev/packages/permission_handler/license
- Add_2_calendar: ^2.1.2
 - https://pub.dev/packages/add_2_calendar
 - https://pub.dev/packages/add_2_calendar/license
- Share_plus: ^3.0.4
 - https://pub.dev/packages/share_plus
 - https://pub.dev/packages/share_plus/license