

How To Install the Android App and the iOS App

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Android Minimum System Requirements

Any Android device running **Android 8.0** or later is compatible.

Android App Installation Instructions

1. Download the Application

On your Android device, download the app from one of the provided sources. Multiple sources are included to prevent potential access issues:

- The file named "Android app.apk" located in the root directory of the mobile app codebase (the KMP project).
- https://www.dropbox.com/sc/fi/qgqs725mez34654hcrduc/PhotoAlbum_AungThiha.apk?rlkey=vdejg9vsa2fy5ep4o054wmww2&st=qpzgnd35&dl=0, Accessed on: 5 Dec 2024
- <https://drive.google.com/file/d/1ihAnOAFwoHVPn4xSize6tNcVhl7ymqok/view?usp=sharing>, Accessed on: 5 Dec 2024
- https://www.mediafire.com/file/uutbvldxj7wk9g6/PhotoAlbum_AungThiha.apk/file, Accessed on: 5 Dec 2024

2. Enable Installation from Unknown Sources

Android devices require enabling permissions to install applications that are not obtained from the Google Play Store. This setting is sometimes labeled as "Install Unknown Apps" or "Unknown Sources," depending on the device.

- If you are installing the app directly from a browser, a prompt may appear asking you to enable the permission for the browser. Follow the on-screen instructions to proceed.
- If the prompt does not appear, navigate to **Settings > Apps > [Browser App]** and enable the "Install Unknown Apps" or "Unknown Sources" setting.
- If you downloaded the app using a browser but are installing it through a File Manager, enable the permission for the File Manager instead. This can be done by going to **Settings > Apps > [File Manager App]** and enabling the appropriate setting.

3. Address Installation Blocking

Certain applications, such as Chrome or File Manager apps, may block the installation even after enabling permissions. If this happens:

- Try installing the app using a different browser or file manager.
- Ensure that the required permissions are enabled for the new application you are using for installation.

4. **Respond to Google Play Protect Prompts**

During installation, Google Play Protect may prompt you to scan the app for potential risks. You can either:

- Choose to scan the app to verify its safety, or
- Skip the scanning step and proceed with the installation.

5. **Open Application**

The app icon features waffles with berries on top. Locate the app in your device's app list and open it to confirm successful installation.

iOS Minimum System Requirements

Any iOS device running **iOS version 15.3** or later is compatible. A simulator cannot be used for this process, as obtaining a device ID (UUID) involves more complex coordination with the developer. Reference:

<https://stackoverflow.com/questions/6952279/how-to-check-device-id-of-iphone-simulator>

(Accessed on: 26 Nov 2024).

iOS App Installation Instructions

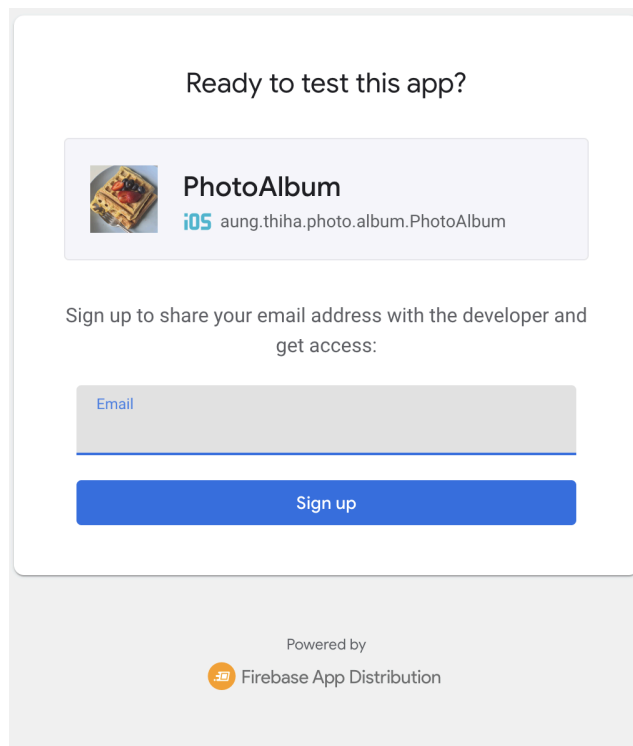
1. Use Safari Browser

Use Safari for this process, as it is incompatible with other browsers. Open the provided link:

- <https://appdistribution.firebase.dev/i/4ddbc3dd615d571d> (Accessed on: 1 Dec 2024)

2. Enter Email Address

Use a Google email address, Firebase services require Google accounts. Reference: <https://groups.google.com/g/firebase-talk/c/13QtLRCilv4> (Accessed on: 26 Nov 2024).



The screenshot shows a mobile app distribution sign-up interface. At the top, it asks 'Ready to test this app?'. Below this, there is a card for the 'PhotoAlbum' app, which includes an icon of a photo album and the text 'PhotoAlbum' and 'iOS aung.thiha.photo.album.PhotoAlbum'. Under the card, it says 'Sign up to share your email address with the developer and get access:'. There is a text input field labeled 'Email' and a blue 'Sign up' button. At the bottom, it says 'Powered by' followed by the Firebase App Distribution logo.

Figure 1: Signing Up To Get App Access

3. Access Firebase Email

- After signing in, open <https://mail.google.com/> in Safari (do not use other browsers or the Gmail app).
- Find the email from Firebase with a title containing "PhotoAlbum".
- Open the email and click "Get started" to be redirected to the Firebase page.

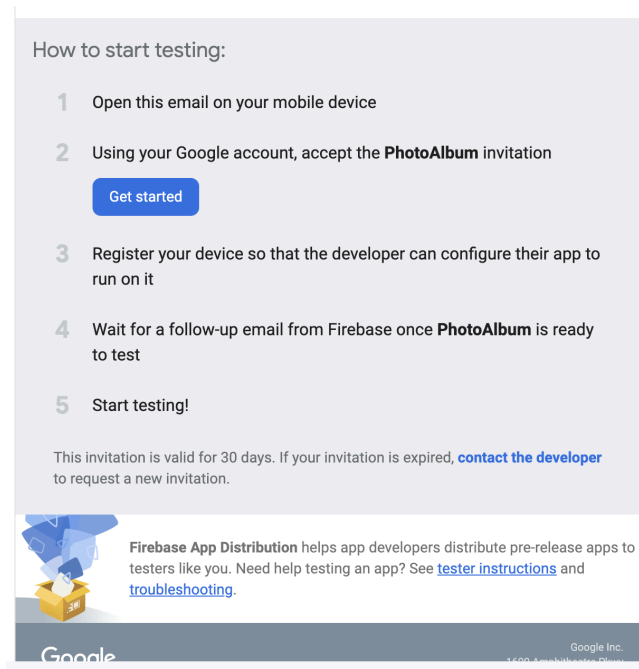


Figure 2. Initial Email From Firebase

4. Register Device with Firebase

- Consent to Firebase and click "Register device".
- Download the network profile when prompted.
- Go to your iPhone(or iPad) device settings, search for "VPN & Device Management" and install the "Firebase App Distribution" network profile.

5. Reload Firebase Page

Return to Safari and reload the Firebase page. The page should confirm that your device is registered with Firebase.

6. Re-Releasing the App with Updated Registered Device List

- After the device is registered with Firebase, Firebase will notify the developer to carry out the remaining process to make the app available to the newly registered device.
- This may take up to 24 hours due to time zone differences. The steps involved are discussed in Chapter 5.

- Work on automating the re-releasing process is scheduled to start on 16 Dec 2024. Once implemented, users will only need to wait approximately 1 hour for the app to become available. However, this automation is not included in the final report. For more details on the automation system, refer to the iOS App Access Automation project at <https://iosappaccessautomation-9db62b5fb979.herokuapp.com/> (Accessed on: 1 Dec 2024)

7. Notification of App Availability

- After the app is re-released, you will receive an email.

8. Reload the Firebase Page

- After 24 hours or once you've received the notification of app availability, reload the Firebase page to see a download button. If you no longer have access to the Firebase page, refer back to step 3.
- If no update appears after 24 hours, contact the author of the project. While this is highly unlikely, this step is included as a precaution.

9. Download the Application

- Once the page has been reloaded, a download button will appear.
- Click the download button and wait for the process to complete.

10. Locate the Application on Your Device

- After the download is finished, the new application will be available on your device.

11. Enable Developer Mode

- The application cannot be used immediately. Because it is a test app, Developer Mode needs to be enabled to proceed.

12. Access Developer Mode Settings

- Open the device settings on your iPhone/iPad.
- Navigate to "Privacy & Security" in the settings menu.
- Scroll to the bottom of the Privacy & Security section to locate the "Developer Mode" option.

13. Activate Developer Mode

- Select "Developer Mode" and toggle it on.
- The device will prompt you to restart. Restart the device to proceed.

14. Confirm Developer Mode Activation

- After restarting, a popup will appear asking for confirmation to enable Developer Mode. Approve the confirmation request.

15. **Open the Application**

- Once Developer Mode is enabled, the application downloaded from Firebase can now be opened. The app icon features waffles with berries on top.