

How to Run the App (.apk) without opening the project on Android Studio

1. Unzip the project folder
2. Open Android Studio
3. Create a new project: Phone & Tablet -> Empty Activity
4. Run emulator (at least **Pixel 2 API 30 Level 11**, or above)
5. Go to **MDPCoursework/app/build/outputs/apk/debug** folder of the unzipped project
6. Find "**app-debug.apk**" at the folder location
7. Drag the .apk file to the emulator
8. The app shall be installed onto the emulator
9. To run, click the app on the emulator

How to Run the Project on Android Studio

1. Unzip the project
2. Open Android Studio
3. Click "Open"
4. Select the unzipped project
5. To run the app, click "Run app" on Android Studio

About this App

What is still in progress:

1. **sign up / sign in using Facebook:**

current progress: only the UI is ready for this feature. The functionalities aren't done yet. For now, users can only sign up/in using Google accounts / email & password

2. **image recognition (semi-complete):** recognise ingredients from images taken and submitted by users then output the info about the corresponding ingredients

current progress: Have set up the functionalities to access camera, retrieve captured images and recognise text. Still lacking the function to convert the recognised text to ingredient names and display the ingredients. Also, the text recognition can be refined to be more accurate.

3. **audio recognition (almost-complete):** record and process users' voice input on an ingredient name and output the info about the corresponding ingredient

current progress: the functionalities have mostly been developed, except that the current *SpeechRecognizer* used isn't accurate/good enough for speech recognition. Ideally, **Google's Speech-to-Text API** should be used for this feature but it isn't free. Thus, this is for future development.

4. **help-desk (semi-complete):** provide users with additional support (FAQ, Contact, etc)

current progress: Have set up the activity, lacking the content for each support.

What else is planning to be added:

- Allow users to upload a profile picture for their accounts
- Push notifications
- Day/Night mode UI

- Glowssary community (forums where users can share their experience / ask for help)