Develop a currency conversion app that allows a user to view a given amount in a given currency converted into other currencies.

· Language requirements:

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SETTINGS

- · Android: Kotlin
- o iOS: Swift

Functional Requirements

- The required data must be fetched from the open exchange rates service
 - See the documentation for information on how to use their API.
 - You must use a free account not a paid one.
- . The required data must be persisted locally to permit the application to be used offline after data has been fetched.
- In order to limit bandwidth usage, the required data can be refreshed from the API no more frequently than once every 30 minutes.
- The user must be able to select a currency from a list of currencies provided by open exchange rates.
- . The user must be able to enter the desired amount for the selected currency.
- The user must then be shown a list showing the desired amount in the selected currency converted into amounts in each currency provided by open exchange rates.
 - o If exchange rates for the selected currency are not available via open exchange rates, perform the conversions on the app side
 - · When converting, floating point errors are acceptable
- The project must contain unit tests that ensure correct operation.

UI Suggestion



- A text entry widget to enter the amount.
- · A selection widget to select a currency.
- · A list/grid of currency conversions

What We're Looking For

- An app that meets all of the functional requirements above
- Your coding style show us how you like to write your code.
- · Architecture how you've structured your code
- · Principles how you believe code should be written
- Quality how you guarantee your code is functioning correctly.

NOTE

Please note that the below points are definitely needed to pass.

1. Write the Unit Test

We consider this as one of important point to evaluate your code

Without any test, it cannot guarantee product quality.

So writing test code is important criteria for us.

2. Use a free account(paid account is not acceptable)

To treat every candidates fairly, a paid account is not acceptable.

We expect that you invent own way to exchange any currencies using a free account which support only dollar,

Submission

Please zip your completed project and submit the zip file via CodeSignal. The images below show how to do this.

Note: if you are submitting an Android project, please clean the project (e.g. Build -> Clean Project in Android Studio) before zipping it, in order to keep the file size small



