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Quick Currency Converter

Description

Easy app to help you to convert many different currencies.

To help you in travel or saving in exchanges, this app provides you a quick way to see the conversion of your preferred currencies.

Don't lose any good conversion rate any more, Quick Currency Converter shows your favorites conversions on your home screen using Quick Currency Converter widget.

Found a good exchange rate and want to share it with friends or families? You can easily use the share option and share the currency conversion that you like with your preferred IM app or e-mail.

Intended User

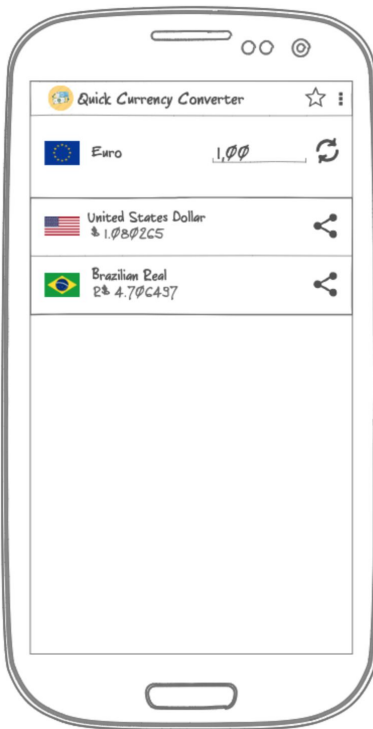
Travelers that are planning their new trips.

Features

- Save preferred currency conversion
- Widget with preferred currency conversion
- Share any conversion with contacts

User Interface Mocks

Main screen



Main screen, here is possible to see all features of the app:

- Star button saves conversions to display in the widget
- Curved arrows, allows you to refresh from online apis the currencies values.
- TextEdit to inform the value to convert
- Share button allows to share the currency information
- Option menu to select the currencies and display information about the app

Currencies options to choose



Menu option allows insert/remove currencies to be converted.

Widget



Widget showing the currencies favorited

Actions tooltips



Tooltips to communicate the user about the actions taken.

About



Menu option shows information about the app.

Key Considerations

How will your app handle data persistence?

App requests information about the currency from a web API endpoint in a background thread and stores the data in an internal database.

Describe any edge or corner cases in the UX.

From the main screen the user can use all the features of the app, once the user navigates to another screen the user can return to the main screen pressing the hardware back button or using the back navigation button on the title bar.

It has a widget that can be added by the user and once clicked in it the app will open in showing the main screen.

Describe any libraries you'll be using and share your reasoning for including them.

This App uses Java as primary language.

- App utilizes stable release versions of all libraries, Gradle, and Android Studio.
- Retrofit: to handle API calls.
- Gson: to parse JSON.
- Android Room: database persistence

Describe how you will implement Google Play Services or other external services.

- All content is safe for work content.
- App adheres to the Google Play Store App policies.
- App's code follows standard Java/Android Style Guidelines.
- App uses Analytics to trace and log
- App uses Identity to suggest user currency from user's country.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

Task 1: Project Setup

- Configure git
- Signup in the API service to retrieve currency rates
- Configure libraries

Task 2: Implement UI for Each Activity and Fragment

- Build UI for MainActivity
- Create the drawable resources to use
- Build UI for modal select currency
- Build UI for AboutActivity

Task 3: Fetch and store data

- Create API call to fetch currencies
- Create API call to fetch currencies rates
- Create storage to keep all data

Task 4: Create notification service

- Create a service to keep notifying the user about the currency rate
- Integrate this mechanism with the UI to activate deactivate notifications

Task 5: Improve UI

- Choose the color theme
 - Improve icons
 - Improve screen layout
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