

Android Fundamentals Project Description

App Name: SwitchRates

About the App

SwitchRates is an application which can be used to convert the value of one currency to another currency. It uses the internet to connect to a Currency Conversion API hosted on [Json Rates](#). Once the app has connected to the API, the app can query the API using the correct input parameters and obtain the converted value of any specified currency.

Problem Statement

It is still quite difficult for some people to determine the conversion rates of two or more currencies without visiting a Forex Bureau, reading the current day's newspaper or going online. These traditional reference centers, especially the first two, are great inhibitors to getting forex conversion rates fast and anywhere. Therefore, in scenarios where these conversion rates are required on the fly, people have had to resort to using estimated values based on the previous days' trends. It is also currently not easy for any person to get history currency conversion rates, such as the conversion rates for the past month.

Proposed Solution

The proposed solution is to develop an android application that will enable a user to specify the currency to convert from, the currency to convert to and the amount to convert. With this information, the application will perform the currency conversion for the user by performing an API call in the background, getting the response and displaying it for the user. In addition to getting the current day's conversion rates, the application will also display the conversion rates for the past 30 days from the current day, as well as the average value for those 30 days.

This implies that any user of the application will have access to fast and accurate conversion rates for any two currencies, regardless of their location and time. They will also be able to see the trends on the conversion rates for the past month. All that will be required is an internet connection on their android device.