

# DVA232

## Assignment 2 – Using Currency API

Nov. 25<sup>th</sup> 2020 UPDATE: The text is revised to remove the parts related to changing the base currency, as this functionality is now not supported on the API for free. The parts which are stricken through are removed from the assignment.

In continuation of the previous assignment we will use a web services that provides us with APIs for foreign exchange rates and currency.

First take a look at <http://fixer.io/> and try to familiarize yourself with the API. Note that the API uses a "base currency" which, by default, is in EUR. ~~The API supports changing the base currency to currency of your choice.~~

Use location services or something similar to find the country that the user resides in. Set the ~~base currency and~~ default currency of the main page (the default currency for the first EditText in the main page) to the currency of that country. ~~If the currency is not supported by the API then use EUR.~~

Now you can start by developing the code for the first part of the assignment which is the main page. Here replace the code that you had before with a new code that uses the API to get the latest exchange rates. Notice that the user might want to change between currencies that none of them are in the base currency (EUR). Also do not forget that we want a fast response from the system, so it is not acceptable if the user has to wait several seconds for each conversion while the app fetches new exchange rates from the service.

In the second page, we want to show a list of all exchange rates. Again replace your old static code with real values that you get from the service.

As a BONUS you might want to add a third page that shows a graph of exchange rates for two given currencies for the past 2 years.