### Currency exchange

#### The assignment

Create a currency conversion application to help calculate what the amount is worth in another currency.

#### API

To achieve that, you can use APIs from https://exchangerate.host/#/. For example:

- <a href="https://api.exchangerate.host/latest">https://api.exchangerate.host/latest</a>
- <a href="https://api.exchangerate.host/convert?from=USD&to=EUR">https://api.exchangerate.host/convert?from=USD&to=EUR</a> ← from and to need to be changed accordingly.
- https://api.exchangerate.host/timeseries?start\_date=2020-01-01&end\_date=2020-01-04
  ← start\_date and end\_date need to be changed accordingly.

### Required features

- Currency Converter: Convert an amount from one currency to another.
  - As a user, I want to enter the amount, the base currency and the target currency codes that I would like to convert from and to. Clicking on the opposite arrows icon will switch the values of the From and To fields. Clicking on the Convert button will show the conversion result and get the exchange rate history.
  - See conversion history data and statistics from today to N previous days (7 days: default, 14 days, 30 days). When the user changes the duration from the dropdown, the history and statistics should be updated.
  - Every conversion operation should be saved. The application should keep the conversion history. Find out a way to store it in case the user closes and opens the application again or refreshes the page.
- View conversion history
  - See the conversion history in a table.
  - When the user hovers over a table row, the action buttons will show. The View button should take the user to the currency converter page and perform the conversion. The Delete from history button will delete the element from the history.

#### Bonus feature

 On the currency converter page, we want to allow the user to choose showing the history in a table or in a chart (use sparkline chart). Feel free to use any Javascript charts library and implement the radio buttons to switch between chart and table views.

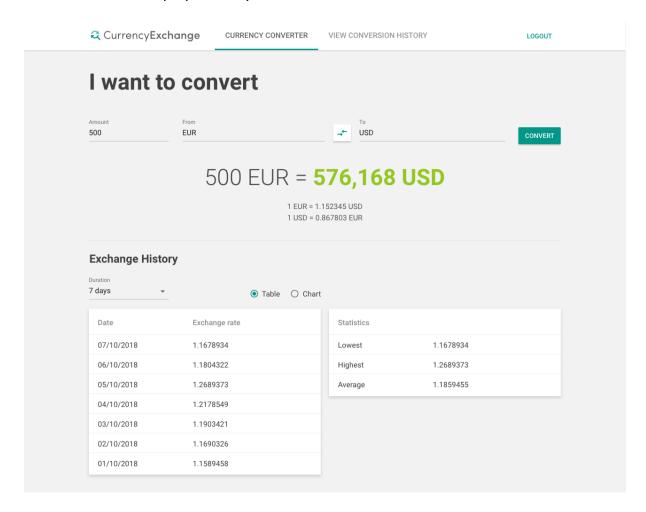
#### Design

We have provided you with designs for all screens. You may use them as a reference

#### Technology stack

Feel free to use Angular or React.

Payconiq is in no way affiliated with exchangerate. We use the API provided by exchangerate for candidate evaluation purposes only.



# **Conversion history**

Date	Event	Actions	
07/10/2018 @ 12:32	Converted an amount of 500 from EUR to GBP	View	Delete from history
07/10/2018 @ 12:37	Converted an amount of 350 from USD to GBP		
07/10/2018 @ 14:06	Converted an amount of 1500 from GBP to JPY		
07/10/2018 @ 15:28	Converted an amount of 26000 from JPY to GBP		
07/10/2018 @ 16:13	Converted an amount of 26000 from JPY to USD		
07/10/2018 @ 16:14	Converted an amount of 930 from EUR to GBP		



### **Colors**

Primary #009688 Accent #94C720 Warn #C70D38

Default text #404040 Table header text #8D8D8D

## **Typography**

# Page title / Roboto Bold 48px

Section title / Roboto Bold 24px

Body text / Roboto Regular 16px

### **Iconography**

We use Material Design Icons (https://material.io/tools/icons)

- → compare\_arrows
- remove\_red\_eye
- delete\_forever