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 will consume Nomics' API http://docs.nomics.com. You can get a free API Key.

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 Nomics. We use the API provided by Nomics for candidate evaluation purposes only.

I want to convert

Amount
500

From
EUR

To
USD

CONVERT

500 EUR = **576,168 USD**

1 EUR = 1.152345 USD
1 USD = 0.867803 EUR

Exchange History

Duration
7 days

⦿ Table   ◯ Chart

Date	Exchange rate
07/10/2018	1.1678934
06/10/2018	1.1804322
05/10/2018	1.2689373
04/10/2018	1.2178549
03/10/2018	1.1903421
02/10/2018	1.1690326
01/10/2018	1.1589458

Statistics	
Lowest	1.1678934
Highest	1.2689373
Average	1.1859455

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		

CurrencyExchange

Colors

| Primary	Accent	Warn	Default text	Table header text
#009688	#94C720	#C70D38	#404040	#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