

TEST PROJECT SPECIFICATION (JAVASCRIPT)

1. General Guidelines:

- The purpose of this test is to help TeleTrader ascertain the qualification and skill level of the prospective candidate applying for the “Web Developer - React” position.
- The specification details listed below are presented in a rather broad sense leaving the candidate to fully implement his view on how certain solutions should be structured and implemented.
- The project itself is related to the TeleTrader’s core business (developing applications for the financial industry), so any prior knowledge of the financial industry is an asset. If not, it’s OK, you can learn it.

2. Assignment:

- Develop a Single Page Application using one of the popular frameworks (Angular 2+, Vue, React with additional libraries). If possible, use React.

3. Functional requirements:

- User has a simple web page with a header and a body with the live price updates for some of the most popular crypto currencies (BitCoin, Ethereum, etc). See Figure 1.
- Web page header contains “Login” button. See Figure 1.
- User can only see the initial web page until it clicks on the Login button.
- After clicking login button user is logged in forever. There is no logout functionality.
- When logged in, user can visit profile page. This page has some information about the user and an image which can be changed to another one when user clicks on the toggle button. See Figure 2.

4. Implementational requirements:

- Application should use public Bitfinex WebSocket data feed to receive crypto currency price updates. Consult the Bitfinex official documentation on the actual message format and protocol:
 - o <https://docs.bitfinex.com/v2/docs/ws-general>
 - o <https://docs.bitfinex.com/v2/reference#ws-public-ticker>
- Subscribe for the updates to these currency pairs:
 - o BTCUSD, BTCEUR, ETHUSD, ETHEUR, EOSUSD
- Display the latest update message for all subscribed currency pairs. Show these fields from the received updates in a table:
 - o Symbol, Daily change, Volume, Last price
- Feel free to make the app’s look and feel as you wish.
- It would be nice to use some of the UI (component) frameworks to quickly generate page layout and components.
- Simulate Login functionality without any interaction with the user. For example, as a simple Boolean flag.
- Toggled picture on the profile page should be “generated” by using this API:
 - o https://api.hello-avatar.com/adorables/285/<YOUR_EMAIL> or <https://picsum.photos/285/285> or similar service by your choice


- Click on toggle button. See Figure 2.

Navbar Home Login				
#	Symbol	Daily change	Volume	Last price
1	BTCUSD	-5.1%	99068904	3783.9
2	BTCEUR	-5.3%	8890814	3330.0
3	ETHUSD	-6.8%	33479583	103.99
4	ETHEUR	-7.1%	1999548	91.377
5	EOSUSD	-10.5%	26685155	2.2158

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Navbar Home Profile				
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Figure 1

Navbar Home Profile	
	
Goran Urukalo goran.urukalo@teletrader.com http://goranurukalo.github.io	
Toggle avatar	

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Navbar Home Profile	
	
Goran Urukalo goran.urukalo@teletrader.com http://goranurukalo.github.io	
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Figure 2