iOS Project Interview (Order Book)

Overview

Order Book
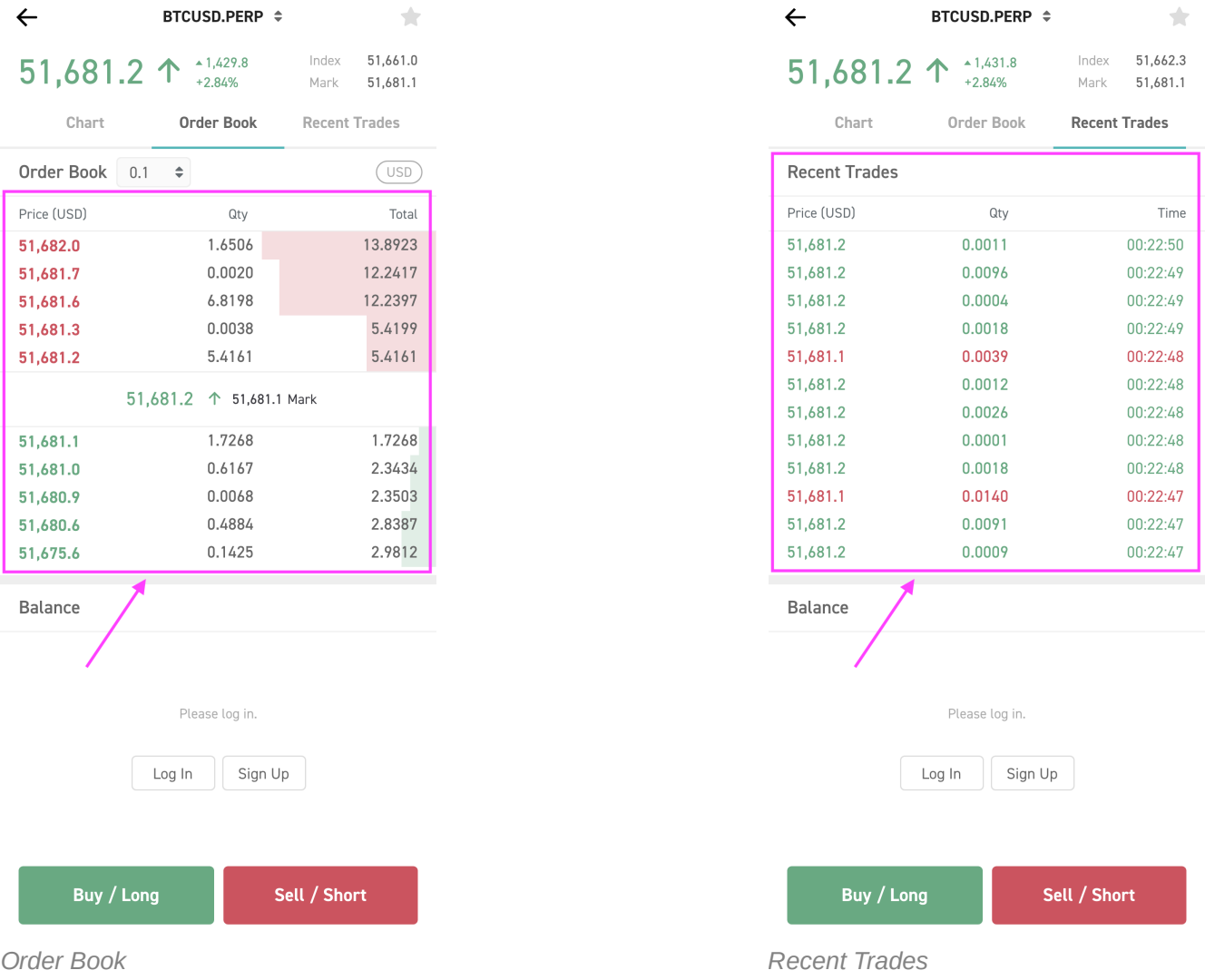
Recent Trades

Goal

- Make an app with working **"order book"** & **"recent trade"** features.
- Receive real-time data via web-socket and render them on screen.
  - **Use BitMEX for market data.**
  - See: https://www.bitmex.com/app/wsAPI
- Implement top section tab control.
  - Excluding chart. Only Order Book and Recent Trades.

- Implement OrderBook / RecentTrade.
  - If you need an example, see here — https://www.bitmex.com/app/trade/XBTUSD

Specification

Order Book

Qty	Price (USD)		Qty
0.1709	51,816.3	51,816.4	3.3893
0.3232	51,816.0	51,816.9	1.3259
0.7068	51,815.9	51,818.9	0.0463
0.1424	51,807.9	51,824.1	0.0281
0.0651	51,801.3	51,824.9	0.2482
0.3775	51,790.9	51,829.6	0.0001
0.2761	51,787.5	51,853.1	0.0441
0.3232	51,787.2	51,861.5	0.0018
0.6709	51,787.1	51,864.8	0.0106
0.0038	51,779.7	51,870.8	0.0045

- Subscribe `orderBookL2:XBTUSD` topic to receive order-book data via web-socket from BitMEX.

- See: https://www.bitmex.com/app/wsAPI

- `size` in BitMEX API means `qty` in the picture here.

- Make whole list scrollable except top section tab control.

- Place 20 "buy" items sorted in descending order at left.

- Place 20 "sell" items sorted in ascending order at right.

- Draw relative volume of accumulated `size` s in the background of each rows.

Recent Trade

Recent Trades

Price (USD)	Qty	Time
51,839.4	0.0965	18:40:17
51,839.4	0.1109	18:40:17
51,839.4	0.0004	18:40:17
51,839.4	0.0063	18:40:17
51,839.4	0.0019	18:40:16
51,839.4	0.0106	18:40:16
51,839.4	0.0001	18:40:16
51,839.4	0.0463	18:40:15
51,833.1	0.1513	18:40:15
51,833.1	0.0002	18:40:15
51,833.1	0.0878	18:40:15
51,829.2	0.0697	18:40:15

- Subscribe `trade:XBTUSD` topic to receive recent-trade data vis web-socket from BitMEX.

- Show 30 latest trades. Sorted in descending order of time. (timestamp)

- Render "buy" trade in green, "sell" trade in red.

- Fill backgrounds of newly added items with lighter green/red colors for 0.2 seconds.

    - Remove the filling after 0.2 seconds.

Others

- You have 7 days.

- Please send us an email for any question. List everyone below as receivers.
  - Hoon — `hoon@prestolabs.io`
  - Jeffrey — `jeffrey@prestolabs.io`
  - Woosik — `woosiki@prestolabs.io`

  - Hoon — `hoon@prestolabs.io`

  - Jeffrey — `jeffrey@prestolabs.io`

  - Woosik — `woosiki@prestolabs.io`