

## BITSO iOS CHALLENGE

In this challenge we are going to test your knowledge of iOS development and abilities to do:

- Network connections
- UI (Apple HIG, good practices, UX, etc.)
- Architecture
- iOS
- Platform language (Swift/ Objective-C)

For this challenge you need to build an app that uses the Bitso API to show a list of cryptocurrencies available, their prices and trading details. There's no design to follow, and you can use any design elements that you want (icons, images, etc). Your app needs to take into consideration the following:

- Base OS for this app should be iOS 10
- Swift or Objective-C (Preferably swift because Bitso app is 100% written in swift and you'll be working with it every day)
- Use auto-layout
- UI can be done using Interface builder or code
- You can use any library you want (preferably not) **except** for:
  - Networking (Alamofire, etc).
  - UI: This is because we build all our UI elements and this will be part of your day to day.
- Use an architecture MVC,MVP, MVVM, etc. (Preferred MVVM)
- API reference: [https://bitso.com/api\\_info#public-rest-api](https://bitso.com/api_info#public-rest-api)

### First Screen

In first screen of the app you need to show a list (UITableView/ UICollectionView) of all available book in Bitso with their corresponding last price.

Considerations:

- When the app is loading resources, it needs to show a loader
- Enable pull to refresh
- Endpoints:
  - [https://bitso.com/api\\_info#available-books](https://bitso.com/api_info#available-books)
  - [https://bitso.com/api\\_info#ticker](https://bitso.com/api_info#ticker) for last price

## Second Screen

After selecting any book from the list, it will take you to a second screen, in that screen you need to show some details for the book that was selected. You can see that details in current Bitso Price app. Considerations:

- The details to show of each book are:
  - Bid
  - Ask
  - Low
  - High
  - 24h Volume
  - Spread: The spread it's the percentage difference between bid and ask price.
- Show a loader when the info is loading
- Endpoints:
  - [https://bitso.com/api\\_info#ticker](https://bitso.com/api_info#ticker)

## Extra Credits:

All of this are a list of nice to have and give you extra points if built and you should not use 3rd party libraries (only you can use a library for the graph, but it's better if you don't). If you can't build them write down how would you build it.

- Autorefresh info of the list every 30 seconds
- Build an infinite autoscroll element to show all available books with their price when showing book detail view. (Check stocks app in iOS when you select a stock)



- Add a chart in book detail view. Chart endpoint: Example <https://bitso.com/trade/chartJSON/{book}/{time}>
  - Book: Any bitso available book
  - Time: 1month, 3months, 1year

The expected time for completion of the challenge is 48 hours. You can deliver it after that time but this will be taken in consideration.