

# Floww Coding Task

The aim of this task is to create a simple master-detail SwiftUI application allowing users to browse a list of cryptocurrencies with key performance data, pushing to a detail view displaying further information on a selected crypto.

Use CoinGecko's free api to get price data.

<https://www.coingecko.com/en/api/documentation>

## 1. Market List

A list item should contain:




- Market cap rank
- Thumbnail image
- Symbol
- Market cap
- Price
- 24hr price change (percentage)













API Details:

Path: /coins/markets

Parameters:

- vs\_currency: usd
- order: market\_cap\_desc
- per\_page: 250

17:15   

#1		BTC \$441.4B	\$22,900.00 0.3%	>
#2		ETH \$195.2B	\$1,619.36 -1.3%	>
#3		USDT \$66.8B	\$1.00 0.1%	>
#4		USDC \$43.5B	\$1.00 0.4%	>
#5		BNB \$41.1B	\$304.85 0.4%	>
#6		XRP \$21.5B	\$0.42 3.5%	>
#7		BUSD \$16.0B	\$1.00 0.1%	>
#8		ADA \$13.2B	\$0.38 -1.4%	>
#9		DOGE \$12.2B	\$0.09 -3.9%	>
#10		SOL \$9.0B	\$24.28 -3.0%	>
#11		OKB \$9.0B	\$36.31 -1.9%	>
#12		MATIC \$0.99	\$0.99 -3.3%	>

## 2. Price Chart

Upon tapping a market in the list, a line chart of the markets historical price should be pushed.

The chart should:

- Plot dates on the x axis
- Plot price on the y axis

The legend should show:

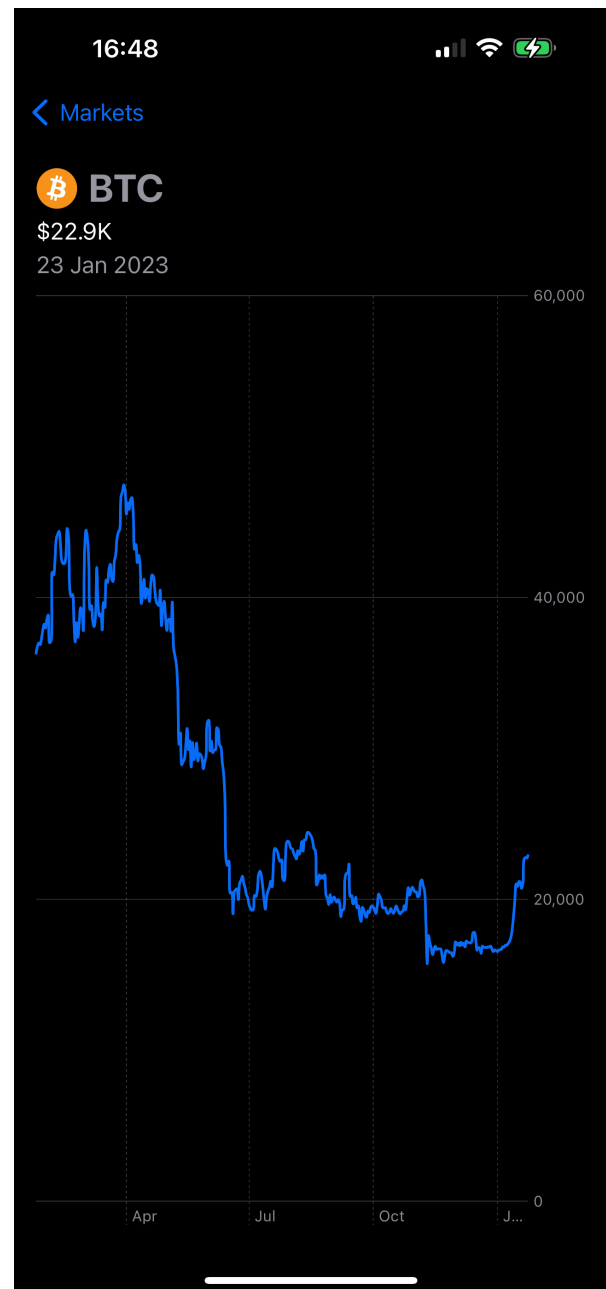
- Market thumbnail
- Market symbol
- Current price
- Current date

API Details:

Path: `/coins/{id}/market_chart`

Parameters:

- `vs_currency`: usd
- `days`: 365
- `Interval`: daily



### 3. Stretch Goals

- Pull to refresh market list
- Filter the market list using a search bar
- Add a drag gesture to the chart, allowing users to highlight the date and price at the focussed point.
- Add a control that allows changing the chart period (the api's **days** parameter)
- iPad support
- Loading/error states

### General Comments

- We're much more interested in coding style and organisation than design.
- Solutions should be implemented with SwiftUI and async/await - no third party packages or Combine.
- iOS 16 minimum deployment target is fine.
- Some tests should be included.
- Light and dark mode should be supported.
- Commit your progress with git.

