

# To-do App for Interview

Jan 26, 2022

## Overview

The purpose of this coding challenge is to see how you build the architecture of an app from scratch. Please try using Object-Oriented style/Interface based programming with clean architecture and a generic approach in mind to extend the app in the future. You don't need to write the test cases, but the code should have the ability to test through Unit test cases.

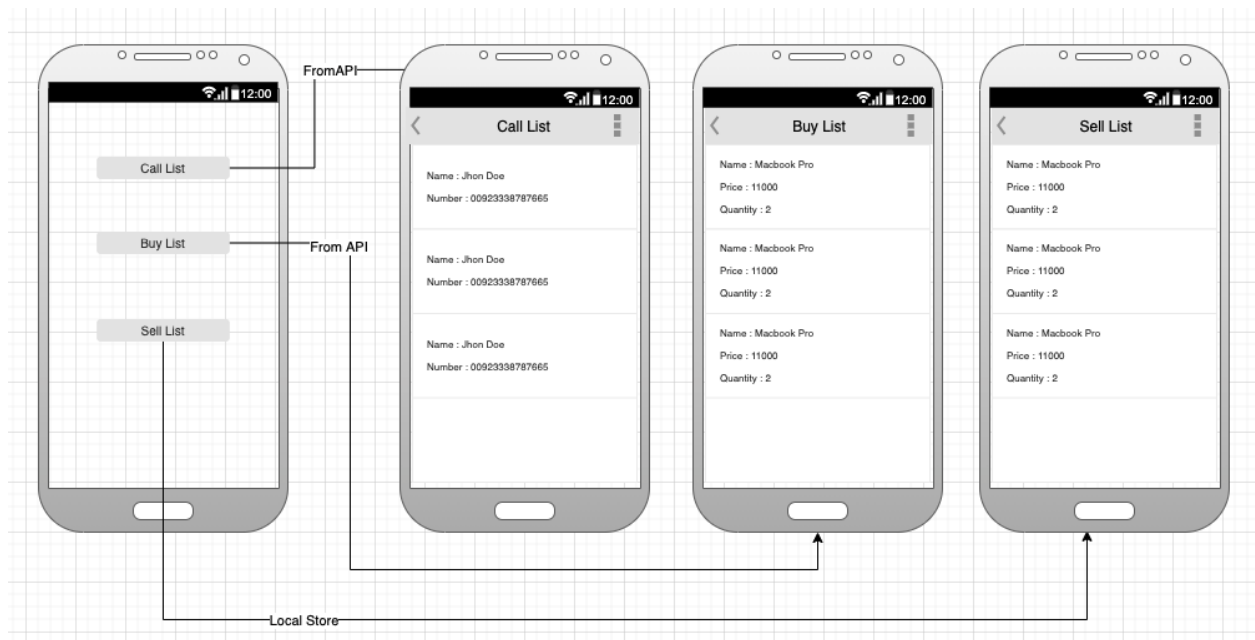
We are not interested in UI but want to see how you bind the UI with data. Please use any architectural or design patterns when you think you should use them.

## Features

The demo app has three types of data to be shown in separate listings on different screens.

For demo purposes, data on two screens will be fetched from web API endpoints, and on one screen, you will fetch data from a local store.

1. **Home Screen:** This screen will have three buttons, To Call, To Buy, and To Sell, which will navigate the user to its listing screens.



2. **To-Call Listing Screen:** It will show a list of persons to call. The data is returning from a web API call in JSON format.

<https://my-json-server.typicode.com/imkhan334/demo-1/call>

```
[
  {
    "id": 1,
    "name": "Jason White",
    "number": "9993456665"
  },
  {
    "id": 2,
    "name": "Wasim Khan",
    "number": "2345677890"
  },
  {
    "id": 3,
    "name": "Amir Khan",
    "number": "987654320"
  }
]
```

3. **To-Buy Listing Screen:** It will show a list of items to buy (type 1). The data is returning from a web API call in JSON format.

<https://my-json-server.typicode.com/imkhan334/demo-1/buy>

```
[
  {
    "id": 1,
    "name": "MacBook Pro",
    "price": 205000,
    "quantity": 1,
    "type": 1
  },
  {
    "id": 2,
    "name": "iPad",
    "price": 20000,
    "quantity": 2,
    "type": 1
  },
  {
    "id": 3,
    "name": "Power Bank",
    "price": 10000,
    "quantity": 4,
    "type": 1
  }
]
```

4. **To-Sell Listing Screen:** It will show a list of items to sell (type 2). This data should be stored in an SQLite database table named "ItemToSell".

**Note for iOS developers:** If you have experience with Core Data, please try to implement this screen using Core Data.

id ▾	name	price	quantity	type
3	Table	12000	1	2
2	TV	38000	2	2
1	iPhone X	150000	1	2