# Objective

Create a reusable CurrencyListFragment
Also create a DemoActivity to showcase the CurrencyListFragment
Please upload to github with a random project name

# Requirement

## Overview

- CurrencyListFragment should receive an array list of CurrencyInfo to create the ui.
- DemoActivity should provide 1 dataset, Currency List A of CurrencyInfo to CurrencyListFragment and the dataset should be queried from local db
- DemoActivity should provide 2 buttons to do the demo.
    - First button to load the data and display
    - Second button for sorting currency list
- CurrencyListFragment should provide a hook of item click listener to the parent
- All the IO operations **MUST NOT** be in UI Thread.
- **Please** show how to handle **multi threading operation**, and deal with **concurrency issue** when do sorting (fast double click of sorting button)
- Search functionality is not required

# Data Model

## Model Description

### CurrencyInfo

| Field Name | Description |
| --- | --- |
| id | The db primary key from server |
| name | The display name of the currency |
| symbol | The display symbol |

# UI

Example, style and design is upon your implementation

| CRYPTOCURRENCY | | 🔍 |
|---|---|---|
| C Crypto.com | MCO | › |
| C Crypto.com Chain | CRO | › |
| B Bitcoin | BTC | › |
| U USDM | USDM | › |
| T TrueUSD | TUSD | › |
| E Ethereum | ETH | › |
| B Binance Coin | BNB | › |
| L Litecoin | LTC | › |
| O OmiseGO | OMG | › |
| X XRP | XRP | › |

# Data sample

## Currency List

```
[
 {
       "id": "BTC",
       "name": "Bitcoin",
       "symbol": "BTC"
 },
 {
       "id": "ETH",
       "name": "Ethereum",
       "symbol": "ETH"
 },
 {
       "id": "XRP",
       "name": "XRP",
       "symbol": "XRP"
 },
 {
       "id": "BCH",
       "name": "Bitcoin Cash",
       "symbol": "BCH"
 },
 {
       "id": "LTC",
       "name": "Litecoin",
       "symbol": "LTC"
 },
 {
       "id": "EOS",
       "name": "EOS",
       "symbol": "EOS"
 },
 {
       "id": "BNB",
       "name": "Binance Coin",
       "symbol": "BNB"
 },
 {
       "id": "LINK",
       "name": "Chainlink",
       "symbol": "LINK"
 },
 {
```

```json
        "id": "NEO",
        "name": "NEO",
        "symbol": "NEO"
    },
    {

        "id": "ETC",
        "name": "Ethereum Classic",
        "symbol": "ETC"
    },
    {

        "id": "ONT",
        "name": "Ontology",
        "symbol": "ONT"
    },
    {

        "id": "CRO",
        "name": "Crypto.com Chain",
        "symbol": "CRO"
    },
    {

        "id": "CUC",
        "name": "Cucumber",
        "symbol": "CUC"
    },
    {

        "id": "USDC",
        "name": "USD Coin",
        "symbol": "USDC"
    }
]
```