

RxJava Kata

City Search

Acceptance Criteria

You must build a system that can be used to search for cities, and select cities from the results.

The system must be reactive and manage state accordingly.

Requirements

- Start with an idle state
- Show a loading state
- Show the results from the api
- Show user selections with results
- React to problems with an error state

Set Up (Java 8)

RxJava 2

```
io.reactivex.rxjava2:rxjava:2.0.6
```

RxJava 1

```
io.reactivex:rxjava:1.2.7
```


Rules

You may **not** modify Interactor

Rules

No conditionals (if/else/switch)

No iterations (for/do/while)

Rules

Wrap all primitives and Strings

First class collections

Rules

No abbreviations

Simple naming

Rules

Keep all entities small (50 lines)

Static inner classes permitted

Lambdas and method refs permitted

Tips

- Manage state as a value
- Use stream pipelines
- Use event based behaviour

Debouncing

Additional Requirements

- Debounce user input every 500 ms