Android Assessment

Objective

This assessment aims to gauge your development skills with the focus being on Android using Kotlin. We will be paying attention to your approach to implementing the base architecture of services and MVVM, the structure of your code, and adherence to best practices and design principles.

If you have any questions, please feel free to ask. It's part of the assessment. contact *yordi@temper.works*.
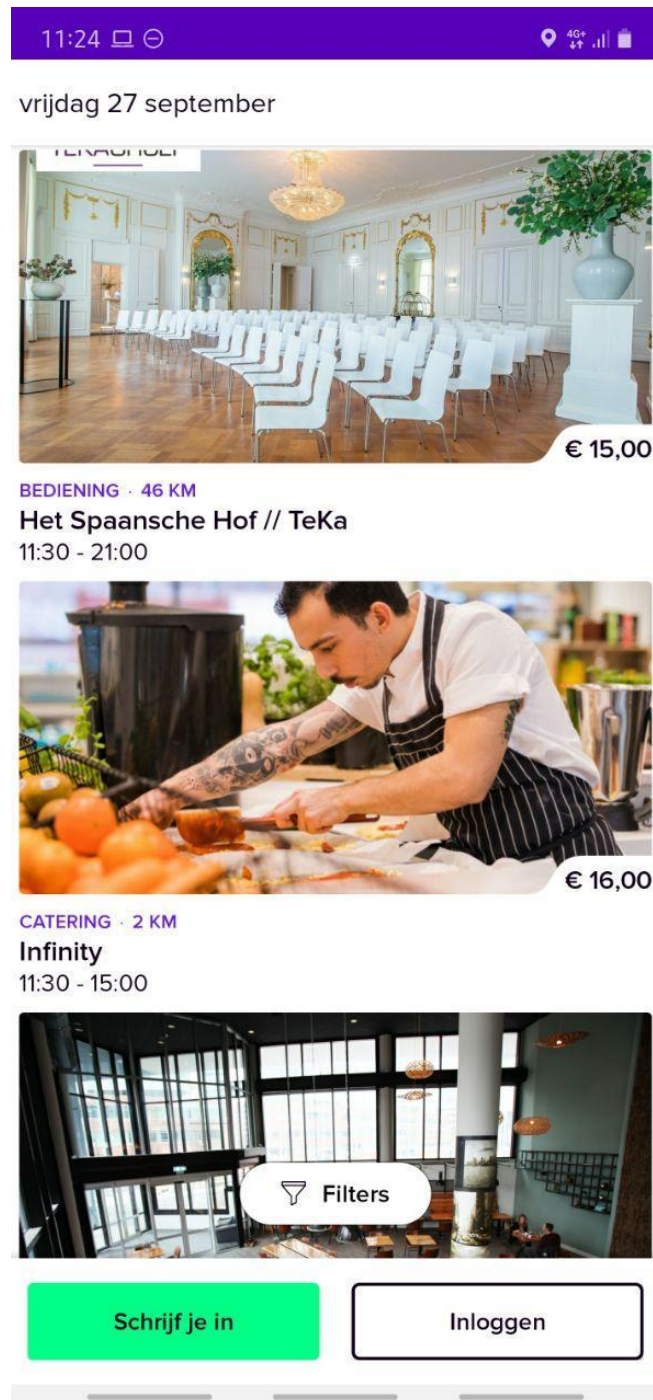
Goals

- Implementation of the delivered design with a solid architectural foundation
- Easy to use and extensible ListView / Recyclerview implementation

Temper has just finished the web based implementation of the new Freelancer job search tool (https://temper.works/werk-zoeken). Using this, freelancers can view and filters jobs to their likings.

The design relies heavily on card based components that represent the specific job and its (upcoming) shifts together with the hourly rate and a nice image that represents the client / job.

Example screens

11:24

vrijdag 27 september

€ 15,00

BEDIENING · 46 KM
Het Spaansche Hof // TeKa
11:30 - 21:00

€ 16,00

CATERING · 2 KM
Infinity
11:30 - 15:00

Filters

| Schrijf je in | Inloggen |

Requirements

Must

- [Code] Usage of Kotlin, no Java.
- [Architecture] Service layer implementation
- [Architecture] MVVM with at least single way binding using a Reactive technique
- [Architecture] proper API error handling
- [Architecture] proper dependency management techniques
- [UI] Login and Signup buttons should show at minimum an empty activity
- [UI] Filter button can be a dummy
- [UI] Pull to refresh
- [Code] Coroutines
- [Testing] testing ViewModels
- [Testing] testing of RxJava

Should

- Rethink your initial code design and check if all components / views are of an acceptable size (no. of lines). If it can be extracted, extract it into a separate component.

Could

- Usage of Reactive or component based layouts would be a plus. For example RxJava
- MapView with markers representing the Jobs with their Shifts

Won't;

- Filters, detail view.

Hints

- You can use the API provided with the assessment
- https://github.com/ReactiveX/RxKotlin
- Livedata
- API Endpoint: https://temper.works/api/v3/shifts?filter[date]=2021-07-19
- Parameters can be changed for the given API endpoint. Passing no parameters will load everything.