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GitHub Username: [CurtesMalteser](#)

António Bastião

Description

This app uses Google Maps API to find the closest points of interest.

The PingPoinz main goal, is to show active events in the vicinity the user location. Example of this are Summer Festivals, sportif events, museum expositions or restaurants that are doing special offers on their menus.

All this information in only one app.

Intended User

The intended users Travelers are or locals that search for events that usually are spread through different platforms or on maps apps that usually don't show what's happening around. So, somehow are difficult to find.

Features

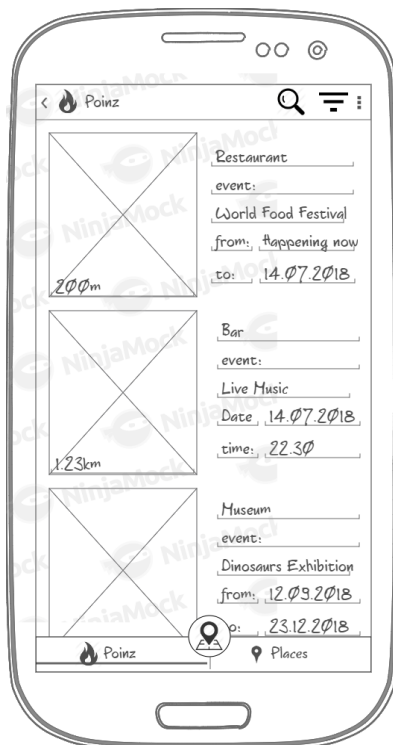
Main features:

- List points of interest for current user location
- Show pictures from this places
- Compiles the information about current events in this places, or occasional events that tend to not be list on maps or travel apps.
- Allow to search for specific places

User Interface Mocks

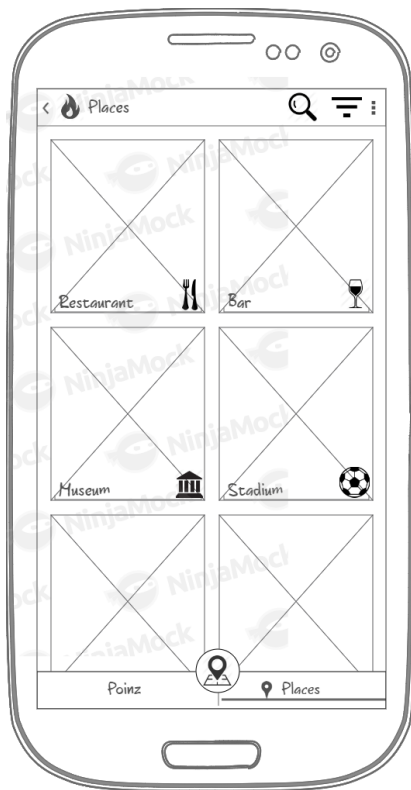
These can be created by hand (take a photo of your drawings and insert them in this flow), or using a program like Google Drawings, www.ninjamock.com, Paper by 53, Photoshop or Balsamiq.

Screen 1



On this screen, users can find the events that are happening or will happen in the future next to their location.

Screen 2



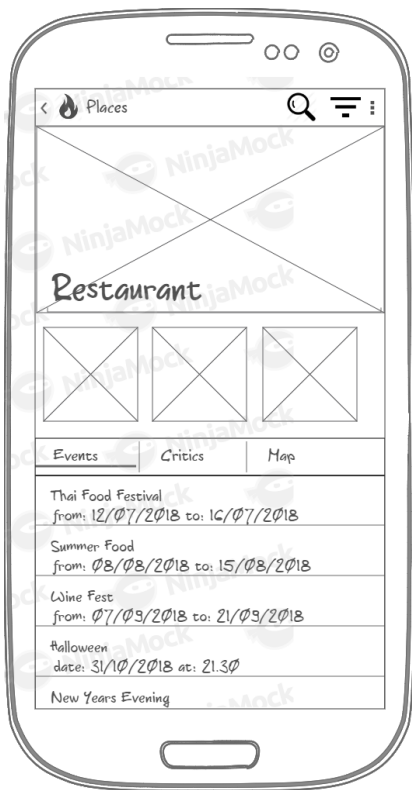
On this screen, users can find the places next to their location.

Screen 3



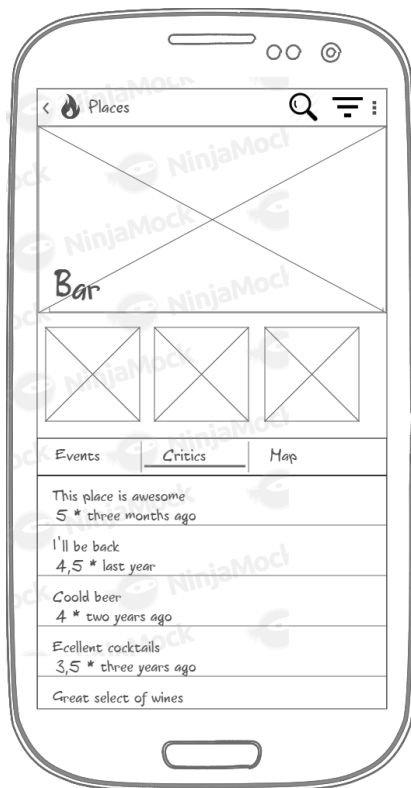
On this screen, users can find the active events and places next to their location.

Screen 4



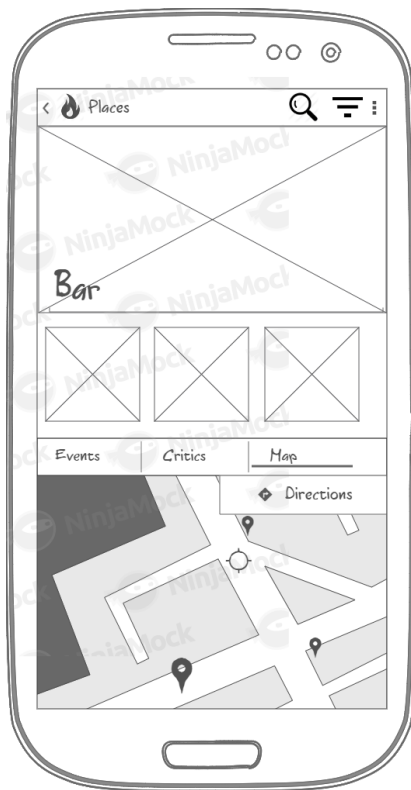
Detailed info a specific place and current or future events.

Screen 5



List of critics from Google Places API.

Screen 6



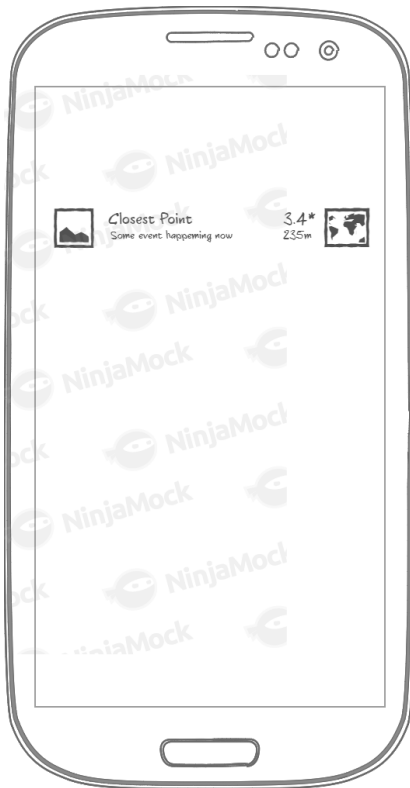
Shows the location of a select placed or event on a map fragment.

Screen 7



The user has to login in the app using Firebase UI with Gmail credentials.

Screen 8



Home screen widget shows the next event near the user location.

Add as many screens as you need to portray your app's UI flow.

Key Considerations

How will your app handle data persistence?

I'll use Firebase Realtime Database for the app and Room to provide offline support for the Home Screen Widget.

Describe any edge or corner cases in the UX.

Case the user is offline I'll inform the user that the app doesn't work without Internet connection and case the position is deactivated, I'll prompt the user to activate it or the app will work based on the last known position that will be stored on shared preferences.

Describe any libraries you'll be using and share your reasoning for including them.

App is written solely in the Java Programming Language and I'll use version 1.8.

Android Studio 3.1.3 and Gradle 4.4 will be used.

Google Maps API because the app is based on maps and location. Android Architecture Components because to show knowledge on MVVM is a must for a professional Android Developer and that's the goal of this app, to be professional. Retrofit just because is the best library is a REST Client for Android , Dagger 2 because I want to understand how it works and is a must on MVVM or MVP (dependency injection), Butterknife because I like and is more easy to implement than DataBinding from my point of view.

Firebase, because I intend to log users with in the app with FirebaseUI and also make my own API based on Firebase realtime database.

Library	dependency:version
Support Library	com.android.support:appcompat-v7:27.1.1 com.android.support:design:27.1.1
Google Maps API	com.google.android.gms:play-services-location:15.0.1 com.google.android.gms:play-services-maps:15.0.1 com.google.android.gms:play-services-places:15.0.1
Firebase	com.google.firebase:firebase-core:15.0.0 com.google.firebase:firebase-auth:15.0.0
Firebase UI	com.firebaseui:firebase-ui-database:4.1.0
Retrofit	com.squareup.retrofit2:retrofit:2.4.0
Butterknife	com.jakewharton:butterknife:8.8.1 com.jakewharton:butterknife-compiler:8.8.1
Android Architecture Components	

Dependencies must be added to the build.gradle file module, following this pattern:

implementation 'dependency:version'.

Describe how you will implement Google Play Services or other external services.

Google Maps API to show maps and places.

Firebase that I'll search in the websites from the canton of the Valais in Switzerland where I'm currently living and compile the events for the next two or three months.

Next Steps: Required Tasks

Task 1: Project Setup

Find all the sources of data that I'll need.

List the subtasks:

- Apply for Google Maps API Keys
- Setup Firebase Database Project
- Compile data from relevant websites from canton of Valais in Switzerland
- Draw a JSON structure for Firebase Database that will be efficient and easy to query for this purpose
- Make a JSON object that I can upload to Firebase Data Base
- Implement Room for offline support for the home screen widget

Task 2: Implement UI for Each Activity and Fragment

Implementation of the following screens:

- Build UI for Poinz
- Build UI for Places
- Build UI for Map
- Build UI for Place or Event details

Task 3: Create Home Screen Widget

- Create a home screen widget that reads the Room database and show the current/next event close to the user location.