
Description

Intended User

Features

User Interface Mocks
- MainActivity
- NewPostActivity
- DetailActivity
- Widget

Key Considerations
- How will your app handle data persistence?
- Describe any edge or corner cases in the UX.
- Describe any libraries you'll be using and share your reasoning for including them.
- Describe how you will implement Google Play Services or other external services.
- Programming language
- Tools
- Accessibility

Next Steps: Required Tasks
- Task 1: Project Setup
- Task 2: Implement UI for MainActivity
- Task 3: Implement DetailActivity
- Task 4: Implement NewPostActivity
- Task 5: Implements Widget

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City panel

Description

Have you ever tried to share information with your neighbours of your whole city?
City panel allows you to share information with your whole city in just few clicks

Intended User

Citizens who wants to share information about their city.

Features

- Detect your city and share information about it
- Read other users published information
- Upload images with your post

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.

MainActivity

This is the MainActivity, here the user can see the post of his city based on his position

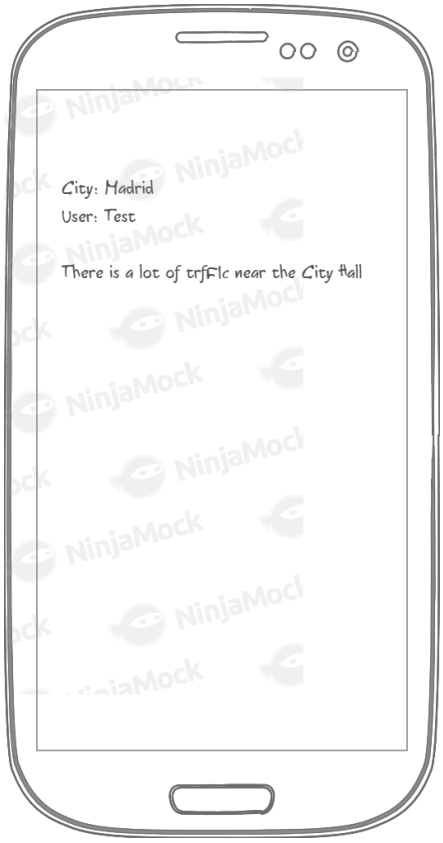
NewPostActivity

This is the Activity to create a post, from here the user can create a new post.

DetailActivity

This is a Detailed Activity of a post.

Widget



The widget shows the last message of the current city of the user.

Key Considerations

How will your app handle data persistence?

The information will be handled in Firebase Realtime Database, using this Framework we can easily archive the information sharing

Describe any edge or corner cases in the UX.

The app will keep the back button working by default, in case the user comes from another app and try to back he will have a button on the ActionBar to do that.

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

Glide 4.7.1 to load images into the ImageViews.
Butterknife 8.8.1 to bind views.

Firebase Auth 15.0.0 to use the Firebase Auth system.
Firebase Database 15.0.0 to use the Firebase Database.
Firebase UI Database 4.0.1, this library will help to Authenticate the user.
RecyclerView-v7 27.1.1 to use the RecyclerView.

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

I will use the Location to get the current location of the user, so I can know in which city panel should the post be published.
Firebase will be used to authenticate the users and store the data.

Programming language

The app will be written in Java, this is due Java is the programming language of Android.

Tools

I´ll use Android Studio 3.1.3 as IDE, and Gradle 4.6 as Build tools.

Accessibility

The accessibility will be handled by using the attribute contentDescription, provided by the Android framework.

Next Steps: Required Tasks

This is the section where you can take the main features of your app (declared above) and break them down into tangible technical tasks that you can complete one at a time until you have a finished app.

Task 1: Project Setup

Create the project
Load the libraries
Create the Firebase project and sync it with the App

Task 2: Implement UI for MainActivity

The MainActivity won´t need the user to be logged in, but I need permissions to get the user location, so I can know the City where he is.
At first I will create the MainActivity UI using the mocks exposed before, I´ll need to create a PlaceHolder view to populate the RecyclerView.

When the UI is created I will implement the logic in Java, so the user can see posts, click on one of them and go to the DetailActivity and a Button so he can create a new Post.
Also I'll implement in the ActionBar buttons so the user can log out and log in.
The Post list will be implemented using a RecyclerView.

Task 3: Implement DetailActivity

First I´ll create the UI and then implement the logic so the information can be loaded and displayed.
This Activity will be able to detect if the Post have an image or not, and handle to display it or not.

Task 4: Implement NewPostActivity

At first, I´ll create the UI basing on the Mocks, then I´ll create the logic, if the user tries to access this Activity and he isn't logged in he will be redirected to the Firebase Activity to log in.
The logic will handle publishing the user post and taking him back to the MainActivity.
The post will be published by calling an IntentService.
This Activity will give the user the option to share the post.

Task 5: Implements Widget

The first task will be crate the widget, the I´ll create a Service that will handle retrieving the messages from the database and giving that information to the Widget.
