

CS 402: Android Development

Project 1

Due: April 9, 2019

You will construct an Android app, in Kotlin, that fulfills all the requirements listed below. I recommend you choose a theme that closely matches what you plan on for your final app. This is not required, but may help move your final project forward and provide a solid base to build up.

Requirements (4)

1. **2 Activities** - At least 2 Activities that are used in the app. The first one may contain a side menu, a bottom navigation bar, a tabbed scroll view, etc, but you will need to launch one other activity.
2. **2 custom Fragments on the same Activity** - Put at least 2 fragments on a single activity and have work together. Do not put any code that controls that fragment into the Activity. The Activity may contain code to display that fragment, however.
3. **Reuse 1 custom fragment** - Reuse 1 fragment in multiple areas within your app. Ex: A custom List fragment that shows a list of restaurants in alphabetical order. Reuse that list fragment to show a list of restaurants in a separate area of your apps, but only restaurants within a 1 mile area.

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4. **Database to store data between launches** - Data must persist between application launches. Data should be entered into the app, stored in the database, and then retrieved again when the application launches.

Notes

Databases

<https://objectbox.io/> - NoSQL

<http://greenrobot.org/greendao/> - SQL - relational

<https://developer.android.com/topic/libraries/architecture/room>

Grading

Completing all requirements gives a base score of 4 out of 5 (80%). To achieve a higher score, add additional content, ideas, design or extra detail. The more you add, the higher the potential grade.

Concepts included in your project, but not covered in class, are great ways to add points to your grade. Design is important and can also increase your score, but bad design should certainly be avoided to achieve a higher grade. Feel free to call out any non-obvious, or under the hood enhancements that might not be noticed on a cursory scan of the source code or run through of the application.

