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## AndroidRefresher

### Description

Been in a long journey learning Android programming?! Concerned about forgetting all what you learned about intents, content providers, libraries, activities, fragments, and so on and on and on ?! I hear you! AndroidRefresher is the right place for you. It's simply an app that helps you never forget how to create an app! AndroidRefresher tests your knowledge and understanding of Android development in a simple, fun quiz format of a total 30 questions. Hang in there; it's just a 1.1 release! More questions will be added in future releases and updates, so stay tuned!

### Intended User

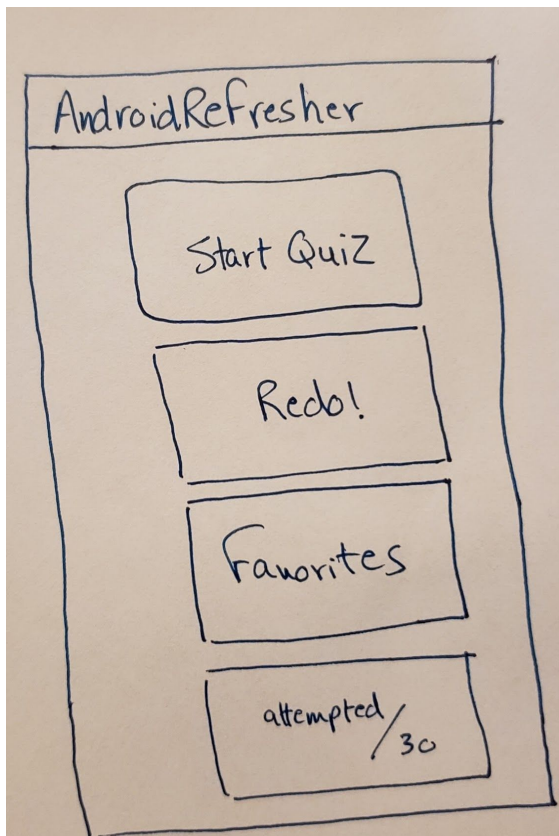
The app is intended to the android-aware users and developers who want to brush upon and test their android knowledge, and improve their skills.

## Features

- Works offline
- Free and paid versions
- Includes a widget for easy access
- Total of 30 scored questions
- Repeat the incorrectly answered question
- Mark your favorite questions

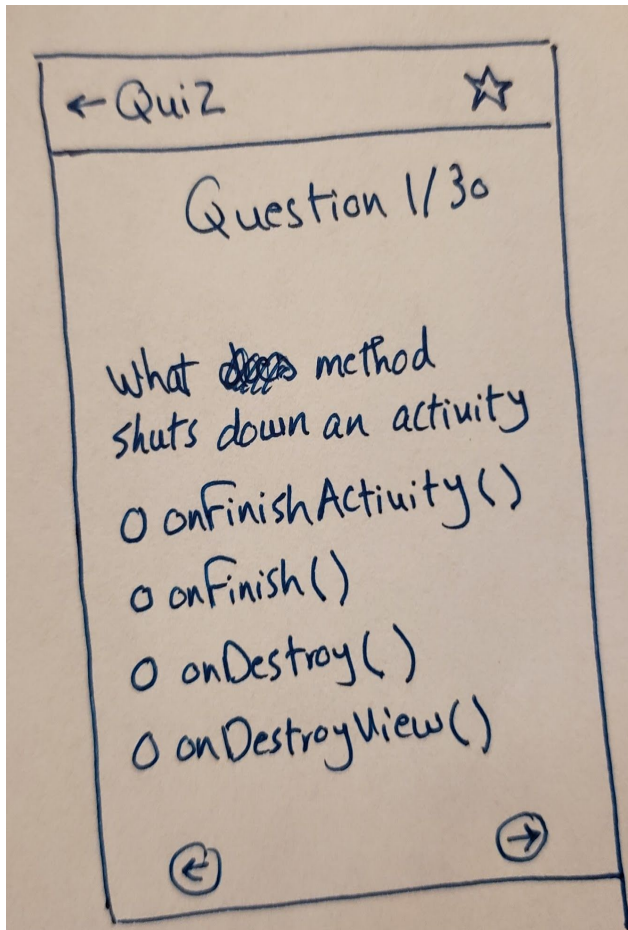
## User Interface Mocks

### Screen 1



Main activity quiz UI

## Screen 2



Quiz's questions preliminary layout

## Key Considerations

How will your app handle data persistence?

The app will be implemented using a simple database and content provider, keeping track of questions, incorrect answers, and favorites.

Describe any edge or corner cases in the UX.

No need to answer all questions at once; the app saves your correct answers and continues from there! For example, if you only answer four quiz questions correctly in your first trial, next time you run the app, it will show your correct attempts as 4/30, so you can only try the new and incorrectly answered questions.

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

Will probably use ButterKnife for data binding, and other android-built libraries as needed.

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

N/A (as of now!)

## 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 project AndroidRefresher in Android studio and folder structure.
- Add necessary permissions and dependencies in the manifest file.
- Configure necessary libraries, if any.
- Make Github repository and submit project progress.

### Task 2: Implement UI for Each Activity and Fragment

- Create layout files for each activity/fragment, design a proper UI that serves app purpose.
- Bind each layout to its appropriate Java file.

### Task 3: Database

- Create a proper database file with required tables.
- Add a contract class and implement a content provider.

### Task 4: Verify database operations

- Add proper CRUD methods and test their functionalities.
- Keep track of questions, correct and incorrect answers.

### **Task 5: Adding features and feedback**

- Adding a user friendly navigation features.
- Providing user feedback of the right and wrong answers
- Implementing an add favorite functionality, for the user to save his or her preferred questions.