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Biblio search

Description

Biblio search roughly translates to book search. It is an app that allows book lovers (biblophiles) to search and discover new books they should read. The app should draw data from the Google books API and present it to the user in a delightful manner.

The app should be able to store book information offline for the user to retrieve when they are not online and should be able to let the user share the book with friends!

This app will be solely written in java. The app will use the stable release versions of all dependencies too!

Intended User

The app is intended for book lovers who want to discover new books!

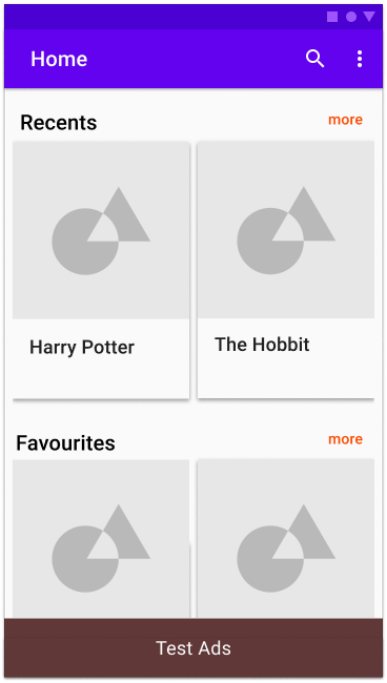
Features

List the main features of your app. For example:

- Searching for books
- Displaying book information
- Adding a book as for offline viewing
- Allow User to see last bookmarked book in a widget

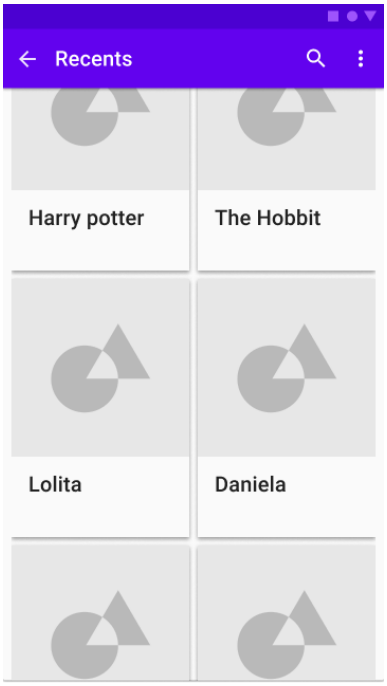
User Interface Mocks

Screen 1



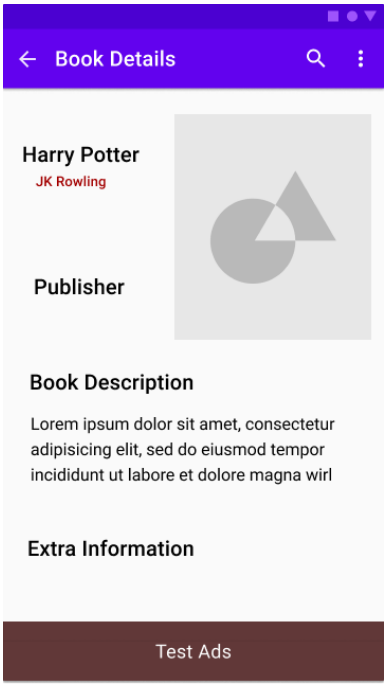
Default launcher activity showing the users activities in the app. Should show the users recents and favourite activities. Will show a default text if the user has none!

Screen 2



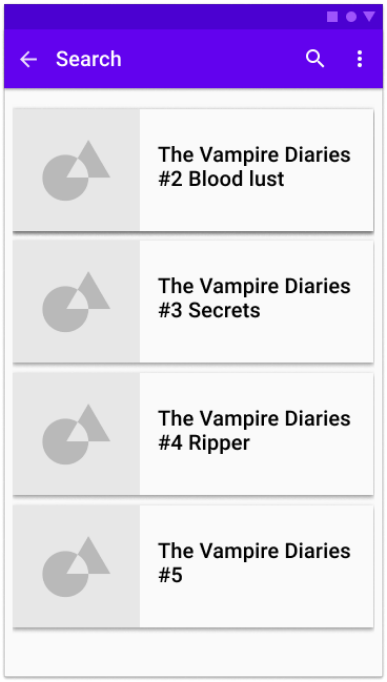
Activity showing all of the users' recents in detail. Items will be in a scrollable recyclerview

Screen 3



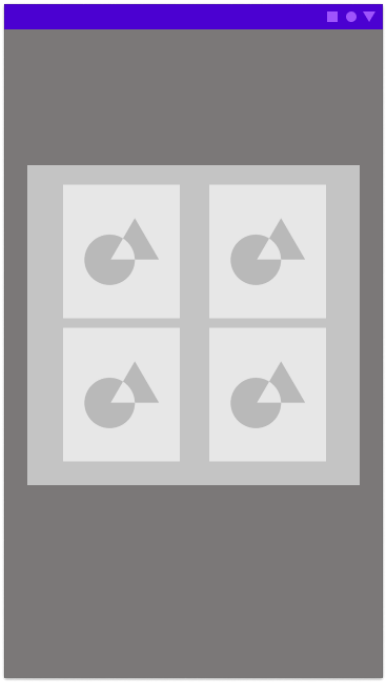
Book Details Activity to show more details about a selected book. Info will be drawn from the google books API

Screen 4



The search activity. Where the user can search any volume of books they want.

Screen 5



Widget screen showing the latest favourite books.

Key Considerations

How will your app handle data persistence?

The app will store data using Room the SQLite database wrapper library from google

Describe any edge or corner cases in the UX.

Since the amount of information one could collect from the books API is huge, how to present that information in steps seems like a problem. Thinking about using the jetpack pagination library.

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

Glide for image loading.
Retrofit and OkHttp for networking
Architecture componentes library like room for database persistence

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

Will be using google ads for the app. The app will also use AsyncTask to fetch data and Executors for database operations to avoid problems

Next Steps: Required Tasks

Task 1: Project Setup

Here I will set up things that the project needs to go smoothly.

- Configure libraries I will use in the project
- Set up a theme that will be used.
- Set up a color palette that will be used.

Task 2: Implement UI for Each Activity and Fragment

I will build most of the UI for the App here. I will work on implementing the design of my mocks and bring them to life in XML.

- Build UI for MainActivity
- Build UI for SearchActivity
- Build UI for Recents and Favourite Activities
- Build UI for Search Activity
- Build Adapters for views that need it

Task 3: Connect to API

I will wire everything that is needed to get data from the google books API here.

- Build AsyncTask classes
- Create response classes
- Create Retrofit classes
- Create endpoint interface and methods

Task 4: Build Database

I will implement the offline functionality of the app.

- Create and structure table entities.
- Create Dao.
- Create Abstract Database

Task 5: Set up the Google Firebase ad

Add Ad services to the app

- Get google-services.json file from Firebase console. Add ad unit ID to app, and admob

Task 6: Build Widget

Will build a widget to show the users last bookmarked book!

- Create layouts and views
- Create WidgetProvider
- Create RemoteViews service implemententation

Accessibility:

The app will handle various aspects of accessibility as much as it can by providing support for RTL and content description for all images.