GitHub Username: Sid-96

Books4Geeks

Description

Explore about your favorite as well as bestselling books and authors. Manage your reading catalog on your Android phone or tablet.

Intended User

This app is meant for book readers who want to be up to date with information about latest bestselling books as well as books from their favorite authors and who also want to manage their reading catalog smartly.

Features

List the main features of your app. For example:

- Search books using Bar Code.

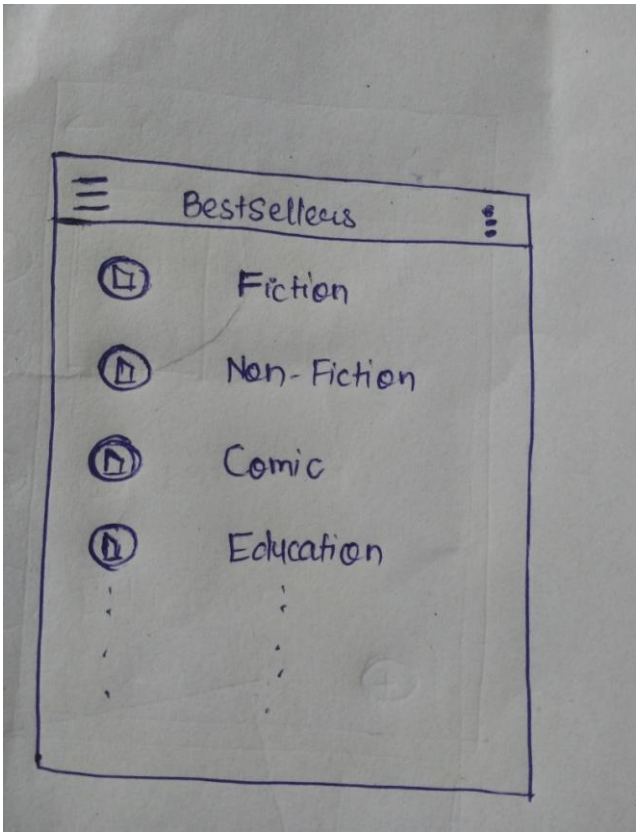
- Explore and Search books from various categories like Comedy, Horror, Fiction, Non-Fiction etc.
- List of bestselling books.
- View details like Author, Description, Average Rating, Pages.
- Manage your reading catalog. (To Read/ Reading/ Finished Reading)
- Backup app data on SD card and Restore from SD card.
- Sort your list by Title/Author.

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 Photoshop or Balsamiq.

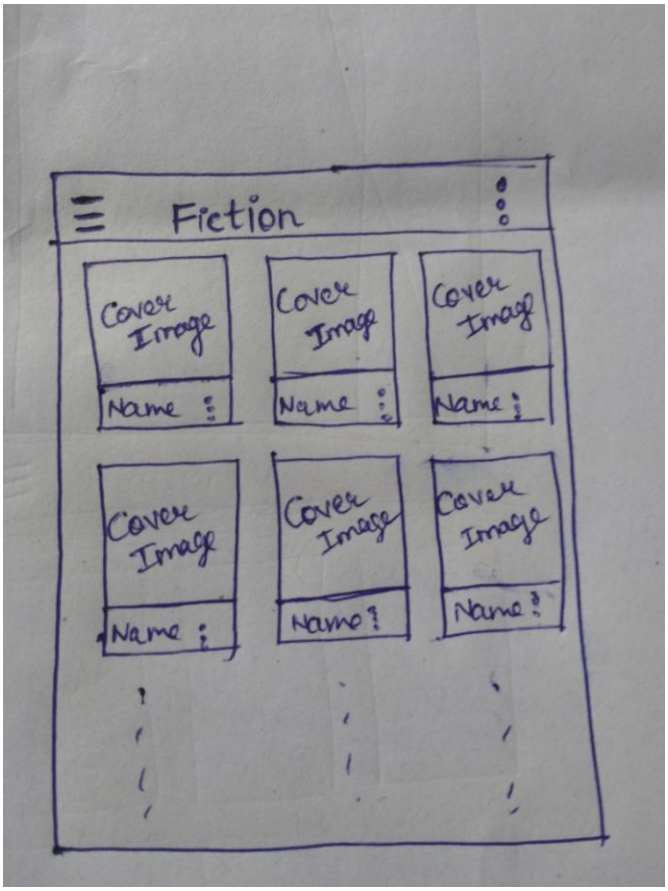
Screen 1

This is the main screen of the app which shows a list of categories of best sellers.



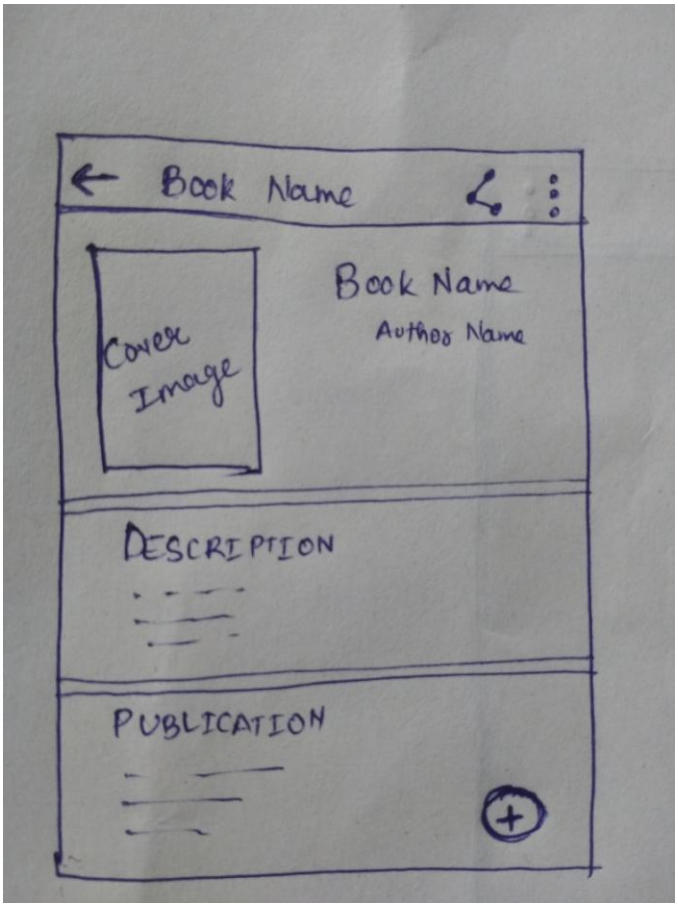
Screen 2

On clicking on any category from screen 1, this screen appears which shows a cards of books (bestsellers) of that category .



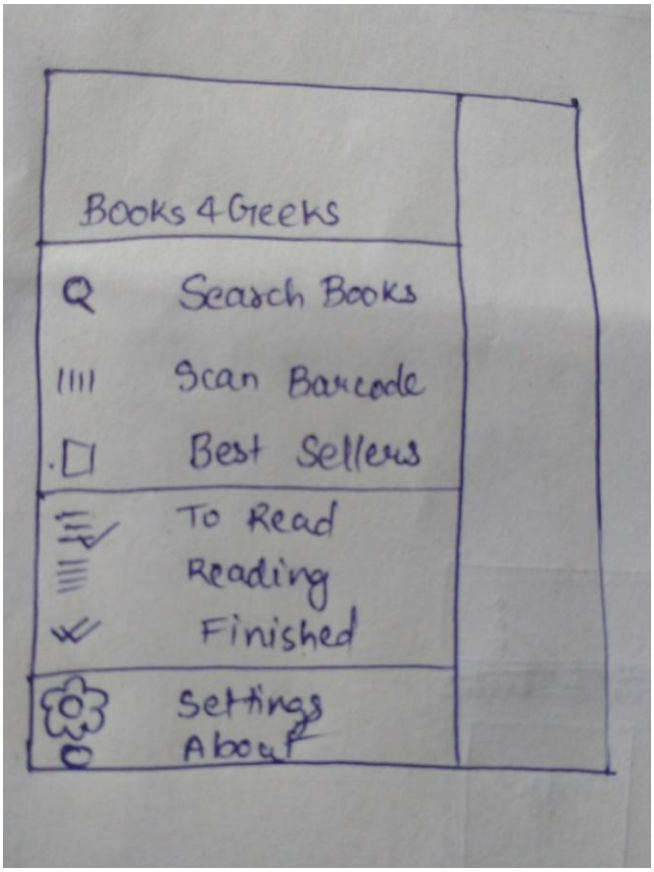
Screen 3

On clicking any book, the detail screen for that book appears.



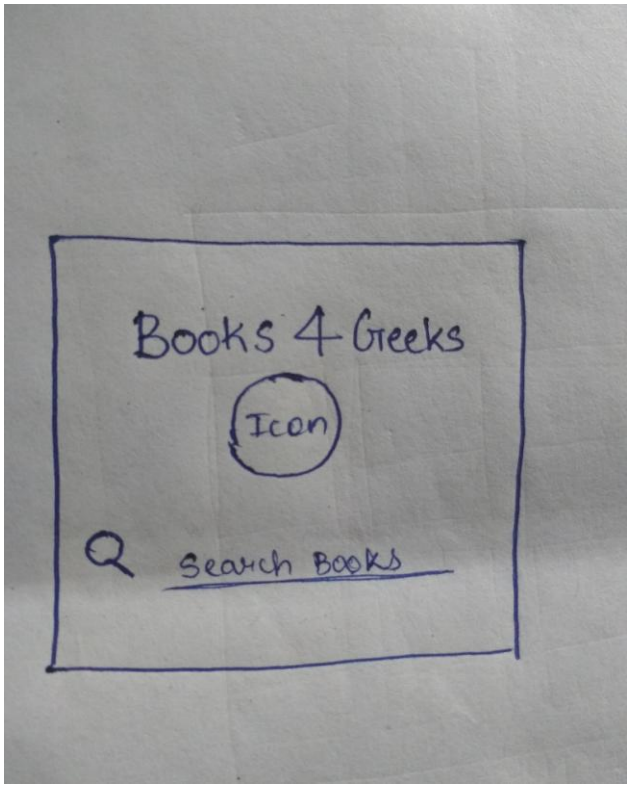
Screen 4

This mockup shows the fragment drawer.



Screen 5

This mockup shows the book search widget.



Key Considerations

How will your app handle data persistence?

Data persistence handled using Content Provider using Schematic Library.

Describe any corner cases in the UX.

The user returns to the main screen if he/she presses back from the screen showing grid of bestsellers of a particular category.

If a user presses back button from the book detail screen, he is returned to screen showing grid(cards) of bestsellers.

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

- Picasso for handling loading and caching of images.
- Volley for Networking.
- Schematic for Content Provider.
- MaterialLoadingProgressBar for styled ProgressBar
- Butterknife for reducing boilerplate code while binding views and fields.
- FloatingActionBar for styled FABs.

- No Nonsense-FilePicker for file picker.
- Barcode Scanner for scanning and processing barcode.

Describe how you will implement Google Play Services.

I will use Google Play Services for AdMob to display Mobile Ads in the search screen.
I will use Firebase Analytics to collect usage and behavior data of the app.

Next Steps: Required Tasks

Task 1: Project Setup

The app uses data from the Google Books API and New York Times Best Seller API. Google Books API is used to search the books while New York Times Best Seller API is used to get the list of Best Sellers.

In order to use Google Books API, you will need to have a API key generated from Google Developer Console. Then the data about books can be fetched in json format from url https://www.googleapis.com/books/v1/volumes and appending the query parameters like isbn, book title, author etc.

In order to use New York Times Best Seller API, you will need NYT Bestseller API key. The data about bestsellers can be fetched from the following url:
https://api.nytimes.com/svc/books/v3/lists// after appending the category name and API key.

Task 2: Implement UI for Each Activity and Fragment

List the subtasks. For example:

- Build UI for Fragment Drawer.
- Build UI for List View of Best Sellers (Main Activity).
- Build UI for Card View of Best Sellers of a Particular category (Search Screen).
- Build UI for Detail Activity for a particular book.

Task 3: Your Next Task

- Build Adapter for List View for Main Activity displaying various categories (Screen 1) .
- Create Model class for category list.

- Create a static list of Categories to display in the list.

Task 4: Your Next Task

- Create Model class for bestseller books.
- Build Recycler view (Card view) Adapter for displaying bestseller books list (Screen 2).

Task 5: Your Next Task

- Complete Detail Activity layout for Book items (Screen 3).
- Create Model class for Books Detail.

Task 6: Your Next Task

- Complete Networking calls to API for Best Seller Recycler view as well as Books Detail Fragment.
- Async Task is used to pull data from the API.

Task 7: Your Next Task

- Add Permission for Camera and complete Barcode scanner implementation.

Task 8: Your Next Task

- Extend the layout to tablets for creating 2 pane layout for Main activity and Search activity.

Task 9: Your Next Task

- Complete Data Persistence by creating Database and Content Provider.
- Build Cursor Adaptor to display books from Database.

Task 10: Your Next Task

- Create and Complete Settings Activity.
- Complete "About" Screen.

- Complete Menu lists/layouts.

Task 11: Your Next Task

- Add AdMob dependency and complete AdMob Google Services implementation displaying ads in Search Activity

Task 12: Your Next Task

- Complete books search widget.

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