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GitHub Username: [akshatamohanty](#)

Trackread

Description

Trackread is a fast, convenient and beautiful way to keep track of the books you are currently reading and monitor progress.

Search for and add a book using the Goodreads API. Shift through your current reads, add notes to them and sync them to your Google Drive.

Intended User

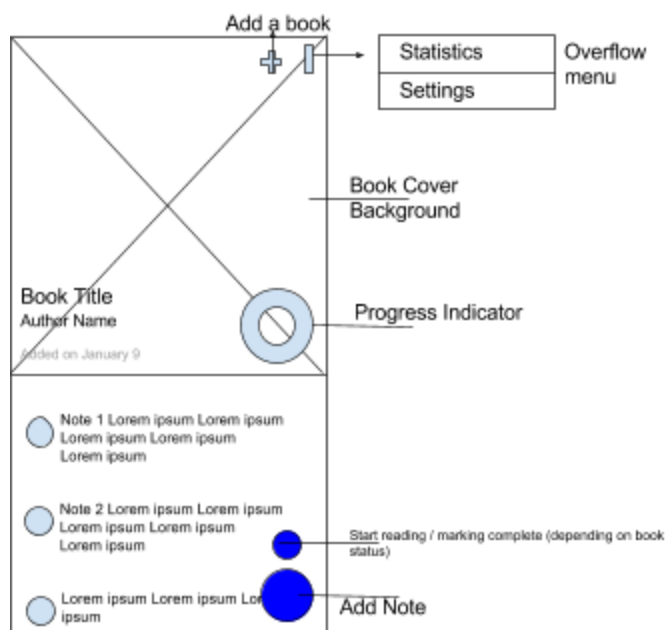
Reading enthusiasts who like to make notes while they read.

Features

Main features would of the app would be:

- Allows the user to search for a book and retrieve information using the Goodreads API
- Allows user to save notes with the book
- Displays progress on the books the user is currently reading
- Allows user to add notes to the book with a widget

User Interface Mocks



created by the user, listed chronologically

Screen 1 - Main Activity

This is the launcher activity containing details about each book the user is currently reading in a separate page in a ViewPager. The page would be divided into two sections.

Section 1 : Details -

- The cover of the book
- The name of the book
- The author's name
- Status Message

○ If the user has started reading this book - "Reading for the past ___ days"

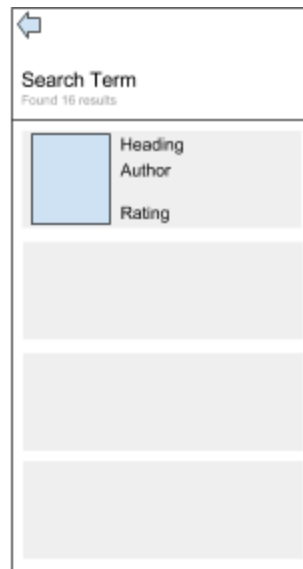
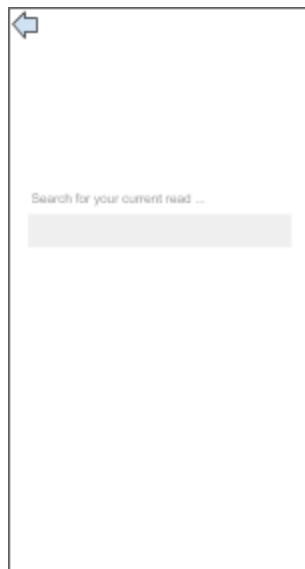
○ If the user hasn't started the book - "Added on _____"

Section 2 : Notes - Contains the notes



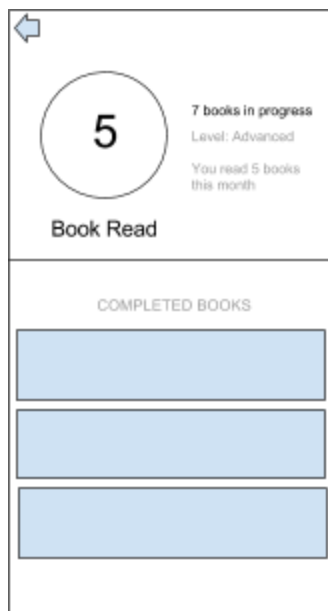
Screen 2 - 'Add a note' Activity

This activity is used to add a note to the book. When the use taps the 'Add Note' Fab button, this activity opens up. The activity is also opened directly from the Widget.



Screen 3 - 'Add a Book' Activity

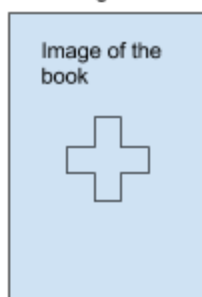
This activity opens by using the '+' button on the menu bar of the main activity and is used to add a book to the current reading list. It uses the GoodReads API to search for a book by title and displays the search results as shown in the second screen. Clicking on a result, would take the user back to the main activity, on the corresponding page for the newly added book.



Screen 4 - Statistics Activity

This activity opens from the overflow menu in the menu bar ('Statistics'). It displays the books the user as already read as well as reading statistics of the user. Clicking on a completed book takes the user to a book view for as depicted in the main activity, with minor changes.

1 x 1 widget



Widget - Directly add a note to a book

The widget will allow the user to directly add notes to book defined when adding the Widget to the homescreen

Key Considerations

How will your app handle data persistence?

The app will have its own content provider that will store basic data for all the books the user stores.

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

Picasso - To handle the loading and caching of book cover images

CircleProgress - To make the circular progress bars for books

Describe how you will implement Google Play Services.

Google Play Services to be implemented -

Google Drive - To sync book data created by the user to their drive

- Compiling com.google.android.gms:play-services-drive:10.0.1
- This feature is only used if the user marks his preference to sync with drive in Settings

Google Analytics - To collect data about app usage

Next Steps: Required Tasks

Task 1: Project Setup

- Understand the Goodreads API and identify the APIs required and their usage
- Set up basic structure of the app with the different Activities and Fragments files

Task 2: Implement Content Provider

- Get data using Goodreads API
- Build Content Provider for the app and store data
- Display data from the Content Provider in the MainActivity

Task 3: Implement UI and functionality for each component

- Build UI and functionality for MainActivity
- Build UI and functionality for Add a book Activity
- Build UI and functionality for Statistics Activity
- Build UI and functionality for Setting Activity
- Implement a loader to move data into the Main and Statistics Activity
- Uses an Async Task to fetch data from Goodreads when user searches for a book in the Add a book activity

Task 4: Accessibility features

Task 5: Google Play Services Integration

- Enable sync with Drive
- Enable Google Analytics

Task 6: Implement the Widget