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**GitHub Username: sengopal**

# Author Follow

## Description

An avid book reader is always on the lookout for new releases especially from the authors that they love. However, there is no such tool today which informs you about upcoming releases. “Author Follow” allows you to keep tabs on upcoming and recent releases of your favorite book authors, search for new authors and more. This app uses Amazon’s product release API to scour for their favorite authors’ publications.

Some of the highlights of this app are:

- Offline wishlist to save books
- Google books preview
- Goodreads integration
- and many more..

## Intended User

This app is intended for book readers who wish to follow new and upcoming releases of their favorite authors.

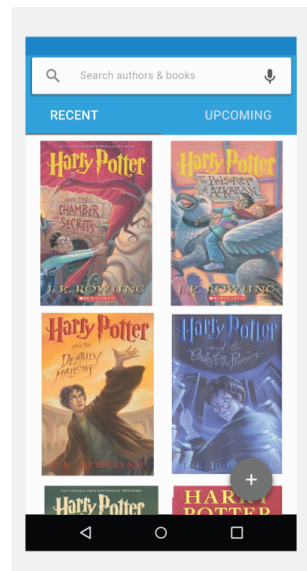
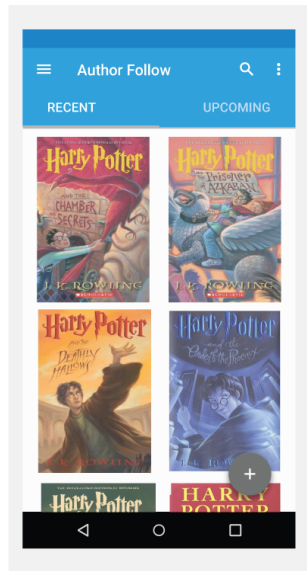
## Features

This app comes with a tons of features such as:

- Search and save authors to follow
- Shows recent and upcoming releases
- View information about authors and books such as reviews, ratings etc.,
- Allows books to be stored to a wishlist
- Goodreads integration
- Google Books preview integration
- Receive notifications about new releases
- Google Identity API integration for multi user support
- Google Analytics API integration to suggest Top authors
- Widget to display upcoming releases as a list

## User Interface Mocks

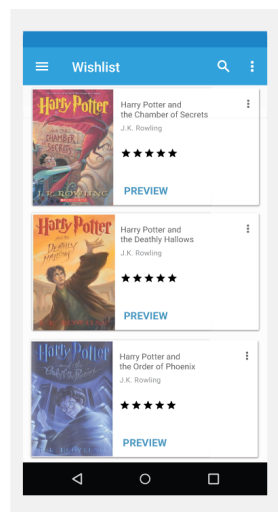
### Home Screen



The home screen displays the Recent and Upcoming releases for all the followed authors. In case there are no results, there will be a message to add more authors to follow. The user can also use the search from the toggle bar to search for books or authors from the list.

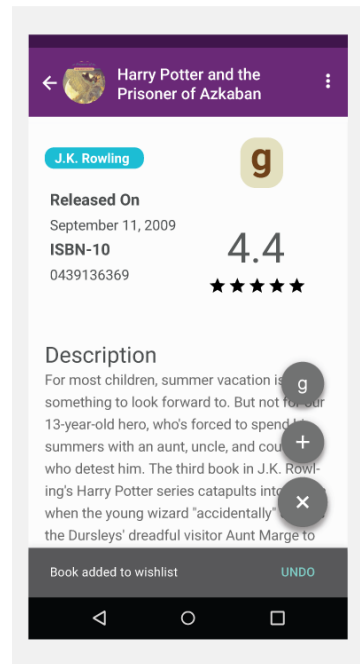
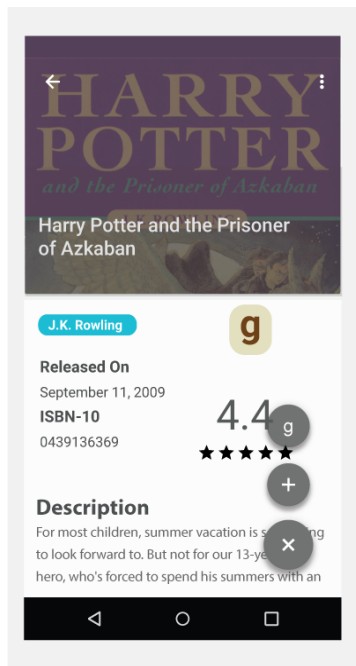
The Fav button is a link to the Author's search bar so that the user can try to search for new authors to add.

### Wishlist Screen



The Wishlist screen displays the books and their details that have been added as a wish list item. The context menu on each item can be used to remove an item from the wishlist. The search icon can be used to search for books or authors within the wishlist items.

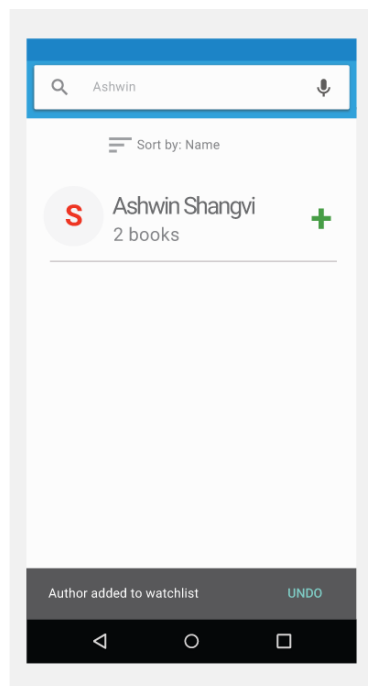
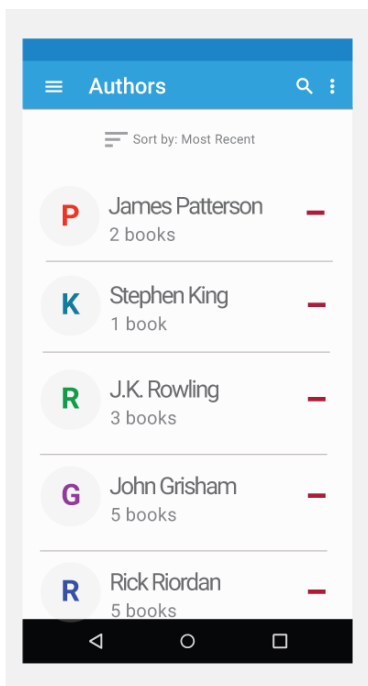
## Book Detail Screen



The book details screen can be triggered from multiple places such as the Home, Wishlist, Goodreads shelf etc., This screen offers rich detail including the book cover, Goodreads rating, release information, description etc.,

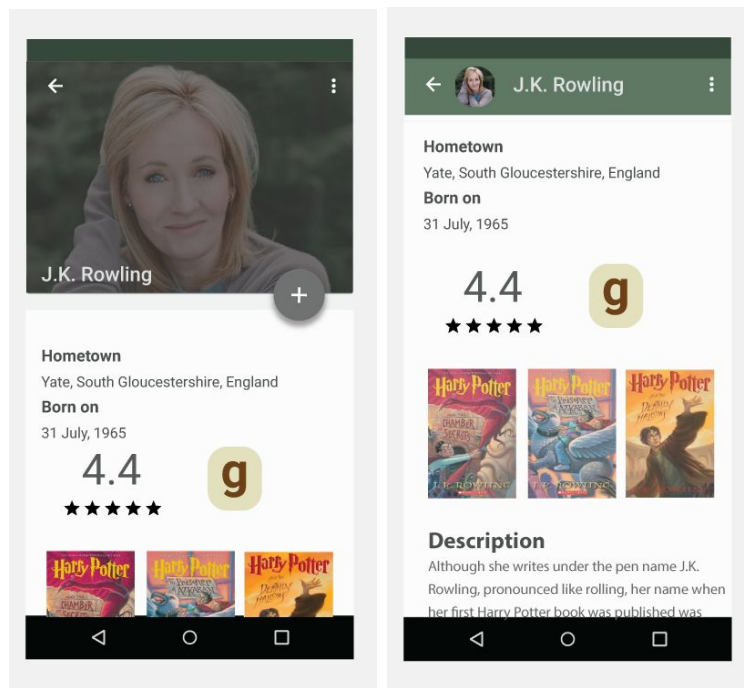
The Fav button helps add the book to either the Wishlist using the "+" button or to the Goodreads shelf using "g" button.

## Authors Screen



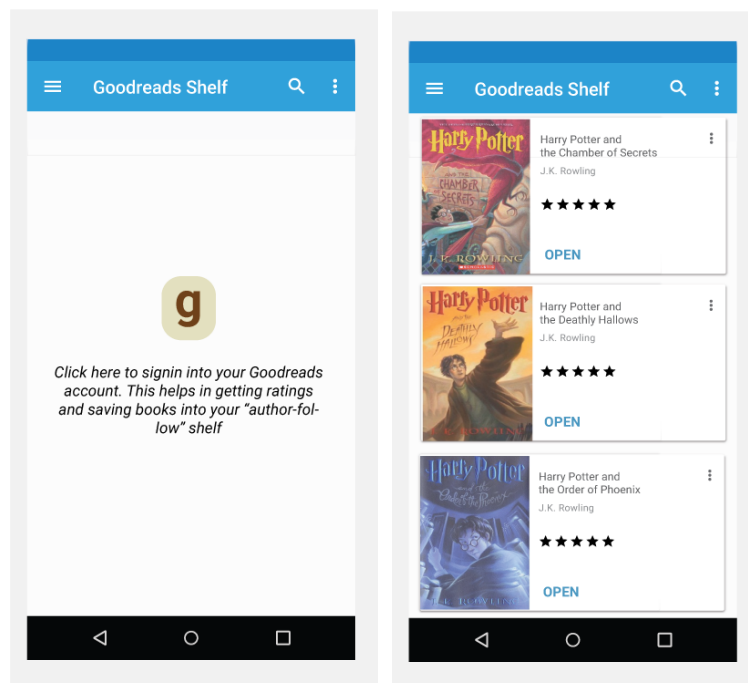
The Authors screen allows the user to maintain the list of followed authors, search for new authors and add to the followed list.

## Author Detail Screen



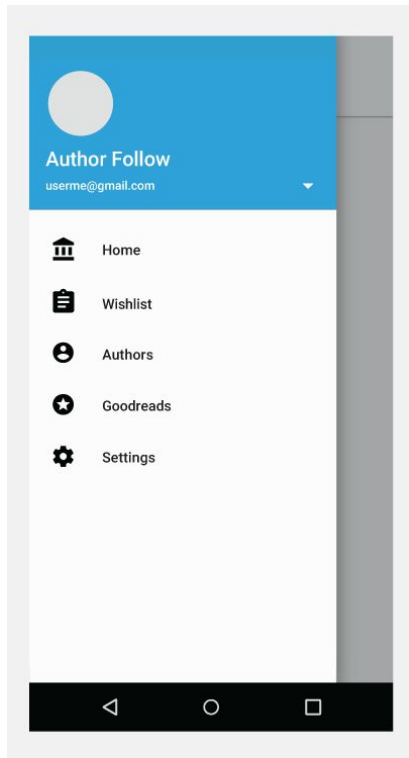
The Author details screen provides important information about the author, cover picture, their Goodreads rating, some of their books etc., The fav button helps add the author to the follow list.

## Goodreads Shelf Screen



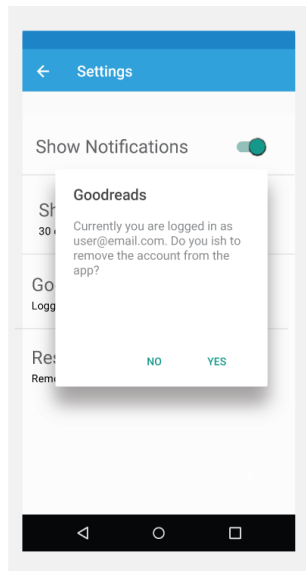
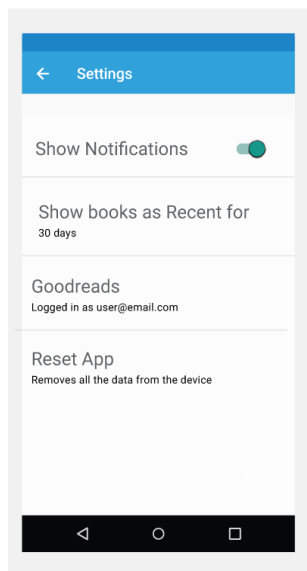
The Goodreads shelf screen helps track the books added to the Goodreads "author-follow" shelf that has been created for the user. We will be using the Goodreads OAuth API to integrate the user's Goodreads identity and use that to manage the Goodreads shelf.

## Navigation Drawer



The navigation drawer helps identify the different pages/screens within the app and also gives access to the settings screen.

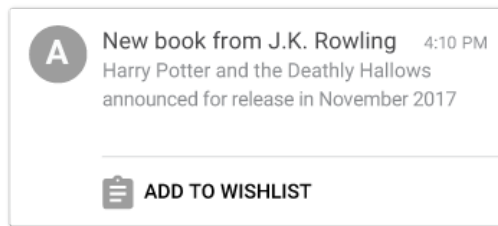
## Settings Screen



The Settings screen helps in configuring some of the user preferences such as:

- Showing notifications for new releases
- Show recent releases for past 30/60/90 days
- Reset app data
- Log out of using associated Google Identity

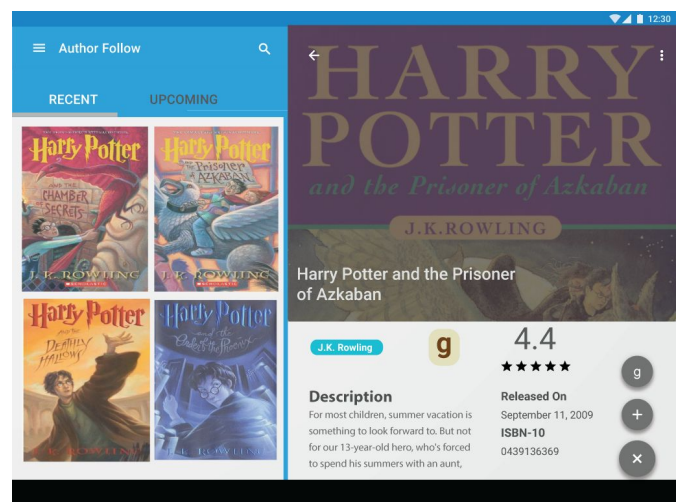
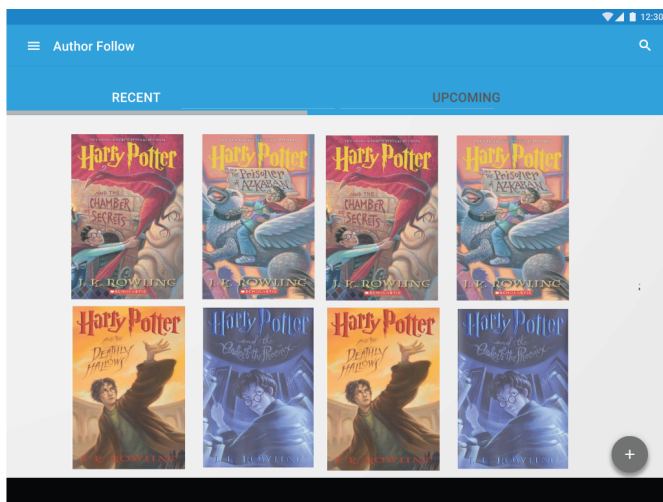
## Notification



This is a sample of the notification that will popup for the user whenever there is a new release announced for the followed authors. This will be checked once a day using shared preferences to determine if the time is past 24 hours and if there is network connection.

## Tablet Screens

All the above screens will be implemented with its equivalent Tablet screens. Some of the screen mocks are provided below as examples.



## Key Considerations

### How will your app handle data persistence?

Most of the data will be persisted using a Content Provider and using a Sync Adapter the data will be updated whenever the network is available. This allows the user to use the app even in offline mode. The Content provider will also help for Notifications and Widget.

### Describe any corner cases in the UX.

The corner cases for this app are:

1. Empty data screen where no authors have been added to follow
2. No recent or upcoming releases
3. Goodreads integration not completed
4. App data being reset
5. No network available for viewing/adding to Goodreads shelf.

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

The following libraries will be used:

1. **Retrofit** for making network calls
2. **Picasso** for image loading
3. Android support design library
4. **Espresso** for writing Integration Tests
5. **Hugo** for debug logging
6. **Icepick** for instance state save/restore
7. **ActiveAndroid** for content provider

## Next Steps: Required Tasks

### Task 1: Project Setup

The first setup is to get Android studio up-to-date and create a master detail setup with all the libraries configured with build.grade

### Task 2: Create a Content Provider and Sync Adaptor

Create a Content provider with ActiveAndroid which provides Books and Authors. The Java model will have identifiers such as cover image, release date, wishlist-added etc.,

### Task 3: Implement UI for Home Screen

Implement the UI screens for the Home Activity/Fragment and ensure that the data from the Books ContentProvider is displayed. Also implement the search within in the App toolbar.

### Task 4: Implement the UI for Book details Screen

Implement the UI screens for the Book details screen and setup such a way that the intent uses a common interface or uses the Content provider URL scheme to load the book details. Use Picasso for Image load of the book cover and also Async response for the books rating.



### **Task 5: Implement the UI for the Authors Screen**

Implement the UI for the Authors screen where the user can view the Authors added and their book release count (*total of recent and upcoming releases*). The users can search for new authors by name and add to the list

### **Task 6: Implement the UI for the Author Detail Screen**

Implement the UI screens for the Author details screen and setup such a way that the intent uses a common interface or uses the Content provider URL scheme to load the Author details. Use Picasso for Image load of the released books and also Async response for the author rating.

### **Task 7: Implement the UI for the Wishlist screen**

Implement the UI screens for the Wishlist screen which will display the Books which are marked with “wishlist-add”. Each item has a context menu to get removed from the Wishlist. Clicking on the book initializes the Book details screen.

### **Task 8: Implement the UI for the Goodreads Shelf screen**

Implement the UI screens for the Goodreads Shelf screen by using the Books Content provider and also use the Sync Adaptor to sync with the “authors-follow” shelf created on Goodreads. Clicking on the book initializes the Book details screen.

### **Task 9: Implement the Navigation Drawer**

Implement the Navigation drawer for showing the User cover picture and navigation links to other screens in the app.

### **Task 10: Implement the Settings Screen**

Implement the Settings screen to setup preferences to show notifications, days to check for release etc.,

### **Task 11: Implement Notifications using Service**

Implement the Notification using a Service which checks for new releases and creates a notification.

### **Task 12: Setup Google Analytics for Wishlist and Authors Screen**

implement Google Analytics to learn how many users add a specific Author to follow and also which books are added most to Wishlist.

### **Task 13: Setup Google Identity for User**

Implement Google Identity to login the user and associate the data to a specific user of the device. If the device is multi user, then this helps in associating the data with each specific account.