UDACITY

Book Listing

Layout

CRITERIA	MEETS SPECIFICATIONS
Overall Layout	App contains a ListView which becomes populated with list items.
List Item Layout	List Items display at least author and title information.
Layout Best Practices	The code adheres to all of the following best practices: • Text sizes are defined in sp • Lengths are defined in dp • Padding and margin is used appropriately, such that the views are not crammed up against each other.
Text Wrapping	Information displayed on list items is not crowded.
Rotation	Upon device rotation - • The layout remains scrollable. • The app should save state and restore the list back to the previously scrolled position. • The UI should adjust properly so that all contents of each list item is still visible and not truncated. • The Search button should still remain visible on the screen after the device is rotated.

Functionality

CRITERIA	MEETS SPECIFICATIONS
Runtime Errors	The code runs without errors.
API Call	The user can enter a word or phrase to serve as a search query. The app fetches book data related to the query via an HTTP request from the Google Books API, using a class such as HttpUriRequest or HttpURLConnection.

CRITERIA	MEETS SPECIFICATIONS
Response Validation	The app checks whether the device is connected to the internet and responds appropriately. The result of the request is validated to account for a bad server response or lack of server response.
Async Task	The network call occurs off the UI thread using an AsyncTask or similar threading object.
JSON Parsing	The JSON response is parsed correctly, and relevant information is stored in the app.
ListView Population	The ListView is properly populated with the information parsed from the JSON response.
No Data Message	When there is no data to display, the app shows a default TextView that informs the user how to populate the list.
External Libraries and Packages	The intent of this project is to give you practice writing raw Java code using the necessary classes provided by the Android framework; therefore, the use of external libraries for core functionality will not be permitted to complete this project.

Code Readability

CRITERIA	MEETS SPECIFICATIONS
Naming Conventions	All variables, methods, and resource IDs are descriptively named such that another developer reading the code can easily understand their function.
Format	The code is properly formatted i.e. there are no unnecessary blank lines; there are no unused variables or methods; there is no commented out code. The code also has proper indentation when defining variables and methods.

Student FAQ