

Fetch - Android Mobile Exercise

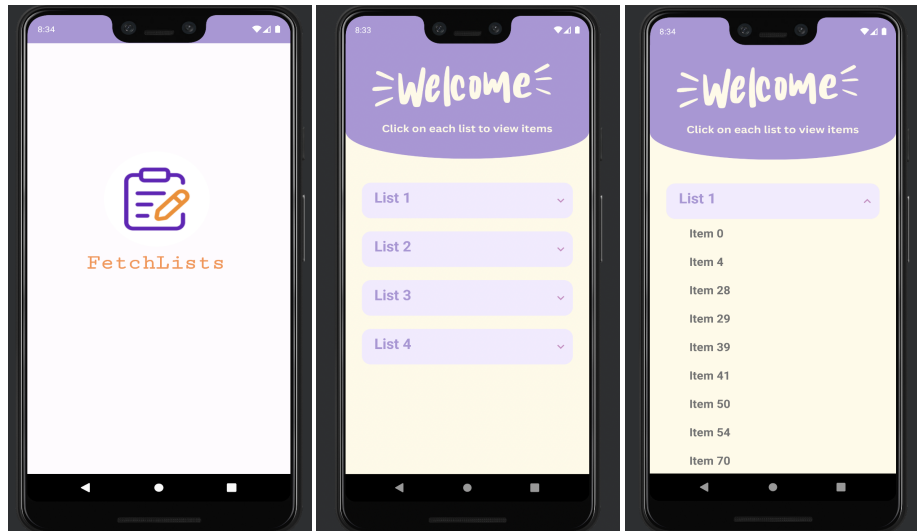
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1 Introduction

The “FetchLists” application is designed to help users visualize all the items. Each item belongs to a list, and we group all items based on their associated “listId”. The final result is sorted by item name.

2 Screenshots



- The first image shows the page when the user opens the application, including the application icon and name.
- The second image shows the home page, and we can see that each list has a separate block and an expand icon.
- The third image shows the items displayed when users click on the list. Items are sorted by item name.

3 Methods and Techniques Use

Programming Language: Java

Minimum SDK: Android with Minimum target for API level at 21.

Data retrieval: I used Volley to retrieve JSON data from the [url](#) and handle the response and errors. In this step, I need to install the Volley related dependency and allow the application to access the Internet as needed.

Data filtering: I used GSON to convert the JSON data into Java objects to make it easier to filter and sort the data.

Display result: I chose to use the expandable list to put all the item groups in the same list according to their list IDs. This allows the user to selectively view any of the lists.