

Android application that manages a grocery list with the features grocery list, with name, quantity and price.

use of:

- listview and databinding
- 2 activities, one for displaying the list, and one for add/edit item,
- use long click to delete items.
- Use a singleton for data.
- use the mvc

Model

- **GroceryItem Class:** Holds details for each grocery item.
 - Fields: name (String), quantity (int), price (double), should buy (Boolean).
- **GroceryDataManager (Singleton)**
 - Holds a ArrayList<GroceryItem>.
 - Methods for adding, editing, and deleting items.
 - Ensures only one instance manages the data across the application.

Controller (Activities)

- **MainActivity (ListView and Data Binding)**
 - Displays the list of grocery items using a ListView.
 - Implements an Adapter for the ListView to display GroceryItem data.
- **AddEditItemActivity**
 - Used for adding a new item or editing an existing one.
 - Contains form inputs for name, price, quantity. And should buy
 - Save button to add/edit the item in the GroceryDataManager.

Implementation Details

- Implement a listener for long clicks on list items in the MainActivity for deletion.
- Pass data between MainActivity and AddEditItemActivity using the Singleton.

Challenge

- use the seek bar for quantity.
- Better displaying the list (item that should be bought should be green and items that shouldn't should be red)
- On long click on an item of the list, it triggers deletion.

Worth 20% of the grade.

Present in class until: 13/12/2023