

UserP

- Store the Username
- Return the Username

LoginSignUpActivityp

- Take and Validate the Inputs
- Inititalize the user object
- Open ItemListActivity

- User
- ItemListActivity
- DB

DBp

- Validate Username Password Combo from Firestore Database
- Add new User to FireStore Database
- Add Item to FireStore Database
- Update item in FireStore Database
- Delete Item from FireStore Database

- User
- Item

ItemCollectionp

- Store a collection of all items for 1 user
- Add new Item to the Stored Collection
- Delete an Item from the Stored Collection
- Return the Stored Collection

- DB
- User
- Item

ItemListActivity

- Display and Store List of Visible Items
- Show Sort And Filter Option Button
- Calculate and Display the Total

- ItemCollection
- FilterSortFragment
- Item
- User

FilterAndSortFragment

- Show Filter Options
- Show sorting Options
- Return to ItemListActivity

- Filter
- Sorter
- ItemListActivity

Filter

- Return a Filtered Collection of Items

- Item
- ItemCollection

Sorter

- Return a Sorted Collection of Items

- Item
- ItemCollection