User

- Store the Username
- Return the Username

LoginSignUpActivity

- Take and Validate the Inputs against their formats (Username, Password etc) - Open ItemListActivity and Pass it the User object	- User - ItemListActivity - DataBase

DataBase

- Return a User after Validating Username Password Combo from Firestore Database - Add new User to FireStore Database - Add Item to FireStore Database - Return a List of Items for the current User - Update item in FireStore Database - Delete Item from FireStore Database	- User - Item

ItemCollection

- Store a collection of all items for 1 user - Add new Item to the Stored Collection - Edit an Item in the Stored Collection - Deletes Items from the Stored Collection - Return the Stored Collection	- DataBase - User - Item

ItemListActivity

• Display and Store List of Visible Items	• ItemCollection
• Show a Menu Button that opens UserInfoFragment	• UserInfoFragment
• Shows a Delete Button that lets users delete selected items	• Item
• Calculate and Display the Total	• User
• Allows to tap an Item to Open EditItemFragment	• AddEditFragment
• Allows to Long press on an item will show checkboxes beside each item on the list hence allowing users to select Multiple Items	
• Show an add item button that opens AddEditItemFragment	

FilterAndSortFragment

• Show Filter Options	• Filter
• Show sorting Options	• Sorter
• Return to ItemListActivity	
• show a close button that closes the fragment	

Filter

• Return a Filtered Collection of Items	• Item
	• ItemCollection

Sorter

• Return a Sorted Collection of Items	• Item
	• ItemCollection

AddEditFragment

• Fragment shows item picture, description, date, associated tags, and other attributes of the item. These attributes will be editable • Fragment will have a camera and a gallery button which will allow the user to attach new or exiting pictures to the item. • Fragment will have a scanner button which will allow extraction of item's description from the item's barcode (which exists on the item's picture) • Fragment will have a search box to search for existing tags. It will also have a button for creation of new tags. Selected or created tags can be assigned to this item • Shows a Button to Save Changes • Shows a Button to Cancel changes	• Item • ItemCollection • ItemListActivity • Scanner • Camera • Gallery

Item

• Includes attributes such as a date of purchase or acquisition, brief description, make, model, serial number, estimated value, comment, photograph, tag • can return those attributes	

Scanner

• enables extraction of a barcode from a picture • enables extraction of description from a barcode	• ItemCollection • Camera • Gallery

Camera

• Allows to Access Camera and Click Images • Returns those Images	

Gallery	
- Allows to Access Gallery and select Images - Returns those Images	

UserInfoFragment	
- shows the Information of the user, such as username and ID - shows a button that opens SortAndFilterFragment - shows a back button That closes the Fragment	SortAndFilterFragment