11/9/23, 3.39 FW	CRC IVIAREI	
	ltem	
 Knows information about the item Can associate with photos Can associate with tags 		TagsPhotoCameraScannerActivityCustomList
	Tag	
Can associate with items		• Item

	Camera	
 Takes photos Stores photos		• Item

MainActivity

AppCompatActivity

- Display a list of items
- Handle user interactions, such as adding, editing, and deleting items
- Manage user authentication and retrieve the current user's username
- Communicate with Firebase Firestore to store and retrieve data
- Implement sorting functionality for the displayed list
- Support multi-select mode for bulk item deletion

- Item
- FirebaseAuth
- FirebaseFirestore
- CustomList
- ScanOrManual
- SortItemsFragment
- UsernameDialogFragment
- ItemViewActivity
- EditItemActivity
- AddItemActivity
- ScannerActivity
- Listener

AddItemActivity

AppCompatActivity

- Allow users to add new items to the inventory
- Handle user input for item details
- Display prompts for missing or invalid input
- Provide the option to set the item's date using a date picker
- Parse and handle barcode information if available
- Confirm and cancel new item addition
- Return the entered item details

- Item
- ScanOrManual
- DatePickerFragment
- Tag
- Photo
- CustomList

	EditItemActivity	AppCompatActivity
•	User can edit items Handle user interaction and UI elements associated with editing	DateDatePickerFragmentItem
•	Validates user input Sends edited item details back to the calling activity	CustomList

AppCompatAct CameraActivity		AppCompatActivity	
•	Requests and checks for camera permission Creates the camera after obtaining permission Sets up the camera controller Communicates success or failure of camera creatiom	•	Item Photo CustomList ScanOrManual

	CustomList	ArrayAdapter
•	Manages a custom ArrayAdapter for displaying a list of items Supports bulk selection Handles the display of checkboxes for bulk selection Maintains a list of selected items Clears the list of selected items when needed	Item MainActivity

https://echeung.me/crcmaker/

	Date	
•		• Item

	DatePickerFragment			DialogFragment
•	Allows user to pick a date Restricts the maximum date to the current date Can dismiss dialogue Can return date to other dialogue or activity	•	Date	

ItemViewActivity	AppCompatActivity
 Allows user to view item details Manages UI elements associated with viewing Allows user to enter edit mode Allows user to delete item Sends information back to the calling activity based on user actions (delete or edit) 	ItemCustomListItemEditActivityMainActivity

https://echeung.me/crcmaker/

Interface Listener		
 Provides callback methods for communicating between fragments and main activity Involved in sorting and input operations 	MainActivityAddItemActivityEditItemActivitySortItems	

	LoginActivity	AppCompatActivity
 Allows users to login or signup Validates user input Displays toasts to help user Communicates with Firestone 		FirebaseFirestoreFirestoreAuthMainActivity

ScannerActivity	AppCompatActivity
 Scans barcodes using user camera Makes API calls to barcode monster Handles response from barcode monster 	ScanOrManualBarcodeScanner

https://echeung.me/crcmaker/ 5/6

ScanOrManual	DialogFragment
 Allows user to choose to scan barcode to input item or input manually Allows user to cancel and dismiss dialogue Communicate with the hosting activity using the Listener interface 	• Listener • MainActivity

	SortItemsFragment	DialogFragment
•	Allows user to select what attribute to sort items by Allows user to select whether sort is asc or desc User can cancel and dismiss dialogue Communicate with the hosting activity using the Listener interface	ListenerMainActivity

UsernameDialogFragment	DialogFragment
isplays username as a dialogue lows user to sign out	MainActivityLoginActivityFirebaseAuth