EditItemActivity
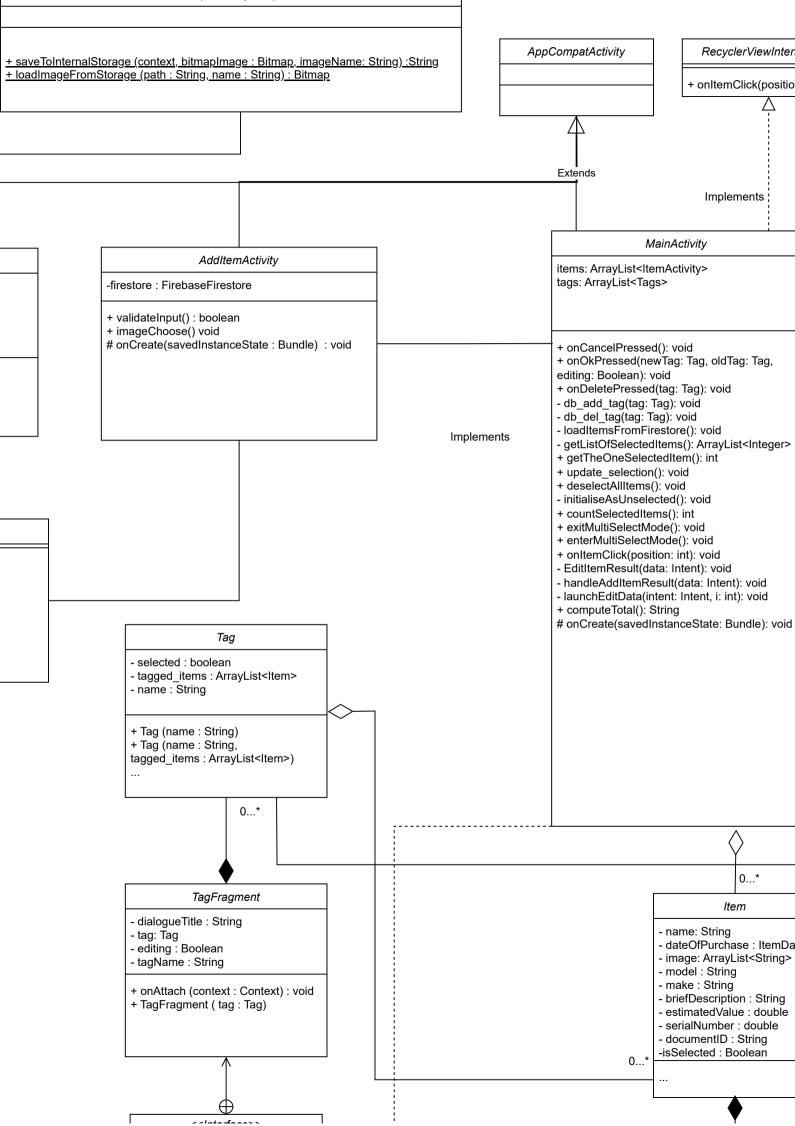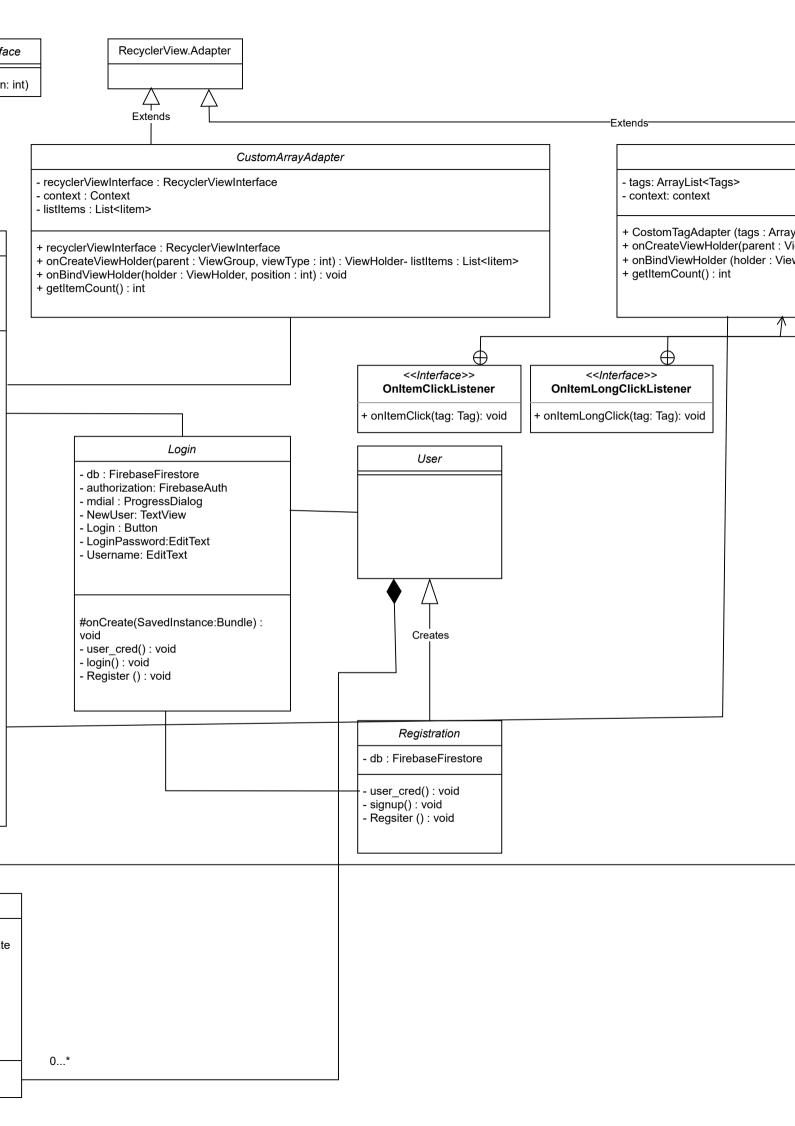
- DocumentID : String
- firestore: FirebaaseFirestore
~path : String
~ imageIndex : Int
- Images : ArrayList<String>

+ validateInput() : boolean
+ imageChoose() void
# onCreate(savedInstanceState : Bundle) : void

<<Utility>> ItemValidator

+ validataItemName(itemNmae :String) : boolean
+ validateItemDescription(itemDescription : String) : boolean
+ validateItemValue(itemValue : String) : boolean
+ validateItemMake(itemMkae : String):boolean
+ validateItemModel(itemModel : String) : boolean
+validateItemComment(itemComment : String) : boolean
+validateDate(itemDate : ItemDate) : boolean
+ validateDaate (Date : String) : boolean

+ saveToInternalStorage (context, bitmapImage : Bitmap, imageName: String) :String
+ loadImageFromStorage (path : String, name : String) : Bitmap

AppCompatActivity

RecyclerViewInter...

+ onItemClick(positio...

Extends

Implements

AddItemActivity

-firestore : FirebaseFirestore

+ validateInput() : boolean
+ imageChoose() void
# onCreate(savedInstanceState : Bundle) : void

Implements

MainActivity

items: ArrayList<ItemActivity>
tags: ArrayList<Tags>

+ onCancelPressed(): void
+ onOkPressed(newTag: Tag, oldTag: Tag,
editing: Boolean): void
+ onDeletePressed(tag: Tag): void
- db_add_tag(tag: Tag): void
- db_del_tag(tag: Tag): void
- loadItemsFromFirestore(): void
- getListOfSelectedItems(): ArrayList<Integer>
+ getTheOneSelectedItem(): int
+ update_selection(): void
+ deselectAllItems(): void
- initialiseAsUnselected(): void
+ countSelectedItems(): int
+ exitMultiSelectMode(): void
+ enterMultiSelectMode(): void
+ onItemClick(position: int): void
- EditItemResult(data: Intent): void
- handleAddItemResult(data: Intent): void
- launchEditData(intent: Intent, i: int): void
+ computeTotal(): String
# onCreate(savedInstanceState: Bundle): void

Tag

- selected : boolean
- tagged_items : ArrayList<Item>
- name : String

+ Tag (name : String)
+ Tag (name : String,
tagged_items : ArrayList<Item>)
...

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TagFragment

- dialogueTitle : String
- tag: Tag
- editing : Boolean
- tagName : String

+ onAttach (context : Context) : void
+ TagFragment (tag : Tag)

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Item

- name: String
- dateOfPurchase : ItemDa...
- image: ArrayList<String>
- model : String
- make : String
- briefDescription : String
- estimatedValue : double
- serialNumber : double
- documentID : String
-isSelected : Boolean

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<<Interface>>

UML Class Diagram

RecyclerView.Adapter

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n: int)

Extends — Extends

CustomArrayAdapter

- recyclerViewInterface : RecyclerViewInterface
- context : Context
- listItems : List<Iitem>

+ recyclerViewInterface : RecyclerViewInterface
+ onCreateViewHolder(parent : ViewGroup, viewType : int) : ViewHolder- listItems : List<Iitem>
+ onBindViewHolder(holder : ViewHolder, position : int) : void
+ getItemCount() : int

- tags: ArrayList<Tags>
- context: context

+ CostomTagAdapter (tags : Array...
+ onCreateViewHolder(parent : Vie...
+ onBindViewHolder (holder : View...
+ getItemCount() : int

<<Interface>>
OnItemClickListener

+ onItemClick(tag: Tag): void

<<Interface>>
OnItemLongClickListener

+ onItemLongClick(tag: Tag): void

Login

- db : FirebaseFirestore
- authorization: FirebaseAuth
- mdial : ProgressDialog
- NewUser: TextView
- Login : Button
- LoginPassword:EditText
- Username: EditText

#onCreate(SavedInstance:Bundle) :
void
- user_cred() : void
- login() : void
- Register () : void

User

Creates

Registration

- db : FirebaseFirestore

- user_cred() : void
- signup() : void
- Regsiter () : void

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	CustomTagAdapter	

list<Tag>, context : Context, onItemClickListener : onItemClickLisner, onItemLongClickListener : onitemLongClickListener)
ewGroup, viewType : int) : ViewHolder
wHolder, position : int) : void

Text

```
          <<Interface>>
  OnFragmentInteractionListener
```
+ onOkPressed(newTag: Tag,
old_tag: Tag, editing: Boolean): void
+ onCancelPressed(): void
+ onDeletePressed(): void

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```
            ItemDate
```
- int year
- int month
- int day

+ ItemDate (day, month, year)
+ ItemDate (time : String)
+ toString() : String

+ parseDate(time: String) :int [.]