AppCompatActivity

ArrayAdapter<Contact>

ContactAdapter
- inflator: LayoutInflator
- context: Context

+ getView(position: int, convertView: View, parent: ViewGroup): View

ContactsActivity
- contact_list: ContactList
- active_borrowers_list: ContactList
- item_list: ItemList
- my_contacts: ListView
- adapter: ArrayAdapter<Contact>
- context: Context

onCreate(savedInstanceState: Bundle): void
onStart(): void
+ addContactActivity(view: View): void

ContactList
- contacts: ArrayList<Contact>
- FILENAME: String

+ setContacts(contact_list: ArrayList<Contact>): void
+ getContacts(): ArrayList<Contact>
+ getAllUsernames(): ArrayList<String>
+ addContact(contact: Contact): void
+ deleteContact(contact: Contact): void
+ getContact(index: int): Contact
+ getSize(): int
+ getIndex(contact: Contact): int
+ hasContact(contact: Contact): boolean
+ getContactByUsername(username: String): Contact
+ loadContacts(context: Context): void
+ saveContacts(context: Context): void
+ isUsernameAvailable(username: String): boolean

EditContactActivity
- username: EditText
- email: EditText
- contact_list: ContactList
- contact: Contact
- context: Context

// onCreate(savedInstanceState: Bundle): void
+ saveContact(view: View): void
+ deleteContact(view: View): void

Contact
- username: String
- email: String
- id: String

+ setId(): void
+ getId(): String
+ updateId(id: String): void
+ setUsername(): void
+ getUsername(): String
+ setEmail(): void
+ getEmail(): String

AddContactActivity
- username: EditText
- email: EditText
- contact_list: ContactList
- context: Context

// onCreate(savedInstanceState: Bundle): void
+ saveContact(view: View): void

Fragment

ArrayAdapter<Item>

ItemAdapter
- inflator: LayoutInflator
- fragment: Fragment
- context: Context

+ getView(position: int, convertView: View, parent: ViewGroup): View

ItemsFragment
+ item_list: ItemList
+ rootView: View
- list_view: ListView
- adapter: ArrayAdapter<Item>
- selected_items: ArrayList<Item>
- inflater: LayoutInflater
- container: ViewGroup
- context: Context

+ onCreateView(inflater: LayoutInflater, container: ViewGroup, savedInstanceState: Bundle): View
+ setVariables(resource: int, id: int): void
+ setAdapter(fragment: Fragment): void
+ filterItems(): ArrayList<Item>

ItemList
- items: ArrayList<Item>
- FILENAME: String

+ setItems(item_list: ArrayList<Item>): void
+ getItems(): ArrayList<Item>
+ addItem(item: Item): void
+ deleteItem(item: Item): void
+ getItem(index: int): Item
+ getIndex(item: Item): int
+ getSize(): int
+ getActiveBorrowers(): ArrayList<Contact>
+ loadItems(context: Context): void
+ saveItems(context: Context): void
+ filterItemsByStatus(status: String): ArrayList<Item>

Item
- title: String
- maker: String
- description: String
- dimensions: Dimensions
- status: String
- id: String
- borrower: Contact
image: Bitmap
image_base64: String

+ setTitle(title: String): void
+ getTitle(): String
+ setMaker(maker: String): void
+ getMaker(): String
+ setDescription(description: String): void
+ getDescription(): String
+ setDimensions(dimensions: Dimensions):void
+ getDimensions(): Dimensions
+ setStatus(status: String): void
+ getStatus(): String
+ setBorrower(borrower: Contact): void
+ getBorrower(): Contact
+ getImage(): Bitmap
+ addImage(new_image: Bitmap) : void
+ setId(): void
+ getId(): String
+ updateId(id: String): void

EditItemActivity
- title: EditText
- maker: EditText
- description: EditText
- length: EditText
- width: EditText
- height: EditText
- borrower_spinner: Spinner
- borrower_tv: TextView
- invisible: EditText
- status: Switch
- photo: ImageView
- image: Bitmap
- REQUEST_CODE: int
- item_list: ItemList
- item: Item
- context: Context
- contact_list: ContactList

// onCreate(savedInstanceState: Bundle): void
+ addPhoto(view: View): void
+ deletePhoto(view: View): void
# onActivityResult(request_code: int, result_code: int, intent: Intent): void
+ deleteItem(view: View): void
+ saveItem(view: View): void
+ toggleSwitch(view: View): void

Dimensions
- length: String
- width: String
- height: String

+ getLength(): String
+ getWidth(): String
+ getHeight(): String
+ getDimensions(): String
+ setDimensions(length: String, width: String, height: String)

FragmentPagerAdapter

MainActivity
onCreate(savedInstanceState: Bundle): void
+ onCreateOptionsMenu(menu: Menu): boolean
+ onOptionsItemSelected(item: MenuItem): boolean
+ addItemActivity(view: View): void

SectionsPagerAdapter
+ getItem(position: int): Fragment
+ getCount(): int
+ getPageTitle(position: int): CharSequence

AllItemsFragment
+ onCreateView(inflater: LayoutInflater, container: ViewGroup, savedInstanceState: Bundle): View
+ filterItems(): ArrayList<Item>

BorrowedItemsFragment
+ onCreateView(inflater: LayoutInflater, container: ViewGroup, savedInstanceState: Bundle): View
+ filterItems(): ArrayList<Item>

AvailableItemsFragment
+ onCreateView(inflater: LayoutInflater, container: ViewGroup, savedInstanceState: Bundle): View
+ filterItems(): ArrayList<Item>

AddItemActivity
- title: EditText
- maker: EditText
- description: EditText
- length: EditText
- width: EditText
- height: EditText
- photo: ImageView
- image: Bitmap
- REQUEST_CODE: int
- item_list: ItemList
- context: Context

// onCreate(savedInstanceState: Bundle): void
+ saveItem(view: View): void
+ addPhoto(view: View): void
+ deletePhoto(view: View): void
# onActivityResult(request_code: int, result_code: int, intent: Intent): void