**MainActivity**

- STATE_CONTACT_ARRAY: final static String
- STATE_MAIN_USER: final static String
- SEND_MAINUSER_EMAIL_INFO: final static String
- SEND_CONTACT_EMAIL_INFO: final static String
- SEND_CONTACT_USERNAME_INFO: final static String
- SEND_MAINUSER_USERNAME_INFO: final static String
- _mainUserItem: UserItem
- _fm: FragmentManager
- _fragmentContactBar:MainContactBarFragment
- _fragmentContactList:_fragmentContactList
- _mapFab: FloatingActionButton
- _addFab: FloatingActionButton
- userItemList: ArrayList<UserItem>
- contactList: ArrayList<Contact>
- mDatabase: DatabaseReference

- SetupFirebase() : void
- setUserContacts() : void
- RetriveContactUsers() : void

# onCreate(Bundle) : void

+startChatWithuser(int): void
+onSaveInstanceState(Bundle): void

*Use*

**MainContactListFragment**

- STATE_CONTACT_ARRAY: final static String
- listAdaptorObj: ListView
- UserItemList: ArrayList<UserItem>
- mainActivityCallback: OnContactSelectedListener
- view: View
+ MainContactListFragment(): void
+ onCreateView(LayoutInflater, ViewGroup, Bundle): View
+ setUserItemList(ArrayList<UserItem>): void
+ OnContactSelectedListener(): interface
+ onSaveInstanceState(Bundle): void

*Use*

**MainContactBarFragment**

- view: View

+ MainContactBarFragment(): void
+ onCreateView(LayoutInflater, ViewGroup, Bundle): View

*Use*

**MainListAdaptor**

- context: Context
- UserItems: ArrayList<UserItem>
- UserItemObj: UserItem

+ MainListAdaptor(Context, ArrayList<UserItem>)
+ getCount(): int
+ getItem(int): Object
+ getItemId(int): long
+ getView(int, View, ViewGroup): View

*Use*

**UserItem**

- userName: String
- email: String
- _contacts: ArrayList<Contact>

# UserItem(Parcel): void

+ CREATOR: static final Creator<UserItem>
+ UserItem(): void
+ UserItem(String, String): void
+ AddToList(Contact): void
+ describeContents(): int
+ writeToParcel(Parcel, int): void

*Use*

**Contact**

- email: String
- chat: String
- isAdded: boolean

+ Contact(String, String)
+ getChat(): String
+ setChat(String): void
+ getEmail(): String
+ setEmail(String): void
+ getIsAdded(): boolean
+ setsAdded(boolean): void