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| **Interface** | **Description** | **Implementing Classes** |
| **Profile** | Defines basic profile attributes (e.g., name, email, description). | User, GuestProfile |
| **FriendManageable** | Manages friend-related operations (add, remove, list friends). | User, FriendList, Group |
| **Blockable** | Manages blocking/unblocking users or entities. | User, FriendList, Group |
| **Sendable** | Defines methods to send, delete, and retrieve messages. | Chat, GroupChat, NotificationService |
| **Message** | Represents an individual message with sender, receiver, and content details. | TextMessage, MediaMessage |
| **Searchable** | Defines search functionality for finding profiles or listings based on criteria. | UserSearch, ListingSearch |
| **Listable<T>** | Manages a generic list of items, such as friends, blocked users, or search results. | FriendList, RoommateListing, GroupMemberList |

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| **Class** | **Implemented Interfaces** | **Description** |
| **User** | Profile, FriendManageable, Blockable | Manages user profile, friends, and blocked users. |
| **GuestProfile** | Profile | Represents a guest profile with limited details. |
| **FriendList** | FriendManageable, Blockable, Listable<User> | Dedicated friend list that also manages blocked users. |
| **Group** | FriendManageable, Blockable | Manages group members and allows blocking/unblocking members. |
| **Chat** | Sendable | Manages conversations between two users. |
| **GroupChat** | Sendable | Manages group conversations with multiple users. |
| **NotificationService** | Sendable | Sends notifications to users or groups. |
| **TextMessage** | Message | Represents a simple text message in a chat. |
| **MediaMessage** | Message | Represents a media message (e.g., image or video) in a chat. |
| **UserSearch** | Searchable | Searches for users based on profile criteria. |
| **ListingSearch** | Searchable | Searches for roommate listings based on preferences. |
| **RoommateListing** | Listable<User> | Represents a list of potential roommates. |
| **GroupMemberList** | Listable<User> | Manages a list of members in a group. |