**SkillSwap App Documentation**

**Overview**

SkillSwap is an innovative Android application that revolutionizes the way we exchange items. By adopting a familiar swipe mechanism, users can effortlessly browse through available items and find what they need, while offering something they have in return. The app is designed to foster a community of sharing and discovery, making the exchange process both fun and efficient.

**Current Features**

**- User Authentication:** Secure login and registration system to manage user access.

**- Profile Management:** Users can create and update their profiles, including their name, city, email, and password.

**- Item Discovery:** Swipe card interface to browse through items other users have offered.

**- Item Exchange:** Users can 'like' items they are interested in and 'unlike' those they are not.

**-Fragment Implementation**: The app now uses fragments to manage different sections.

**-Toolbar Navigation**: A toolbar has been added to navigate between the match page, adding a new item, and logging out.

**-Match Page**: The swiping cards interface is now fully functional, accessing the Firebase database to retrieve item details and displaying them using the Glide library.

**-Add New Thing**: Users can now add new items, including the name, description, and a mandatory image.

**Database Structure**

The app utilizes Firebase as its backend database service. Below is the structure of the primary classes within the database:

**User Class**

* **IdU:** Unique identifier for the user.
* **Name:** User's full name.
* **City:** User's current city.
* **Email:** User's email address.
* **Password**: Encrypted password for user account security.
* **Things[]:** Array of items (Things) the user is offering.
* **LikesIds[]:** Array of item IDs the user has liked.
* **UnlikeIds[]:** Array of item IDs the user has unliked.
* **AddThing():** Method to add a new item to the user's offering list.

**Thing Class**

* **IdT:** Unique identifier for the item.
* **Name:** Name of the item.
* **Description:** Detailed description of the item.
* **Available:** Boolean value indicating the availability of the item.
* **IdU:** The IdU of the user who owns the item.

**Future Developments**

* **Enhanced Matching Algorithm:** To improve the item discovery process.
* **Real-time Chat:** Enabling users to communicate directly within the app.
* **User Ratings:** Implementing a rating system to ensure trust and safety within the community

**New Features Implemented**

* **Chat in Real Time**: Users can now chat with others who have mutual likes.
* **Algorithm Filtering**: Improved algorithm to filter and show relevant items, avoiding repetition of already liked or disliked items.
* **UI Improvements**: Enhanced the UI for the choose sign-in/up screen and the toolbar.

Interfaz de usuario gráfica, Aplicación

Descripción generada automáticamente

Imagen que contiene Interfaz de usuario gráfica

Descripción generada automáticamente

**User Interface Interfaz de usuario gráfica, Aplicación

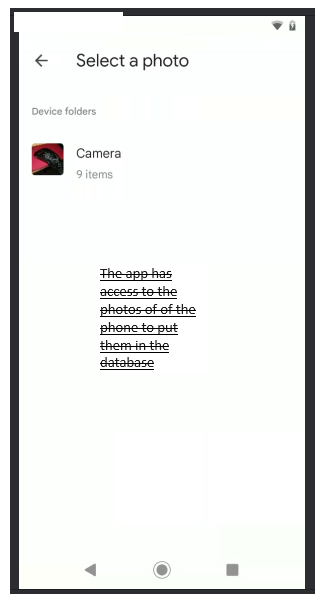
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Interfaz de usuario gráfica, Texto, Aplicación

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