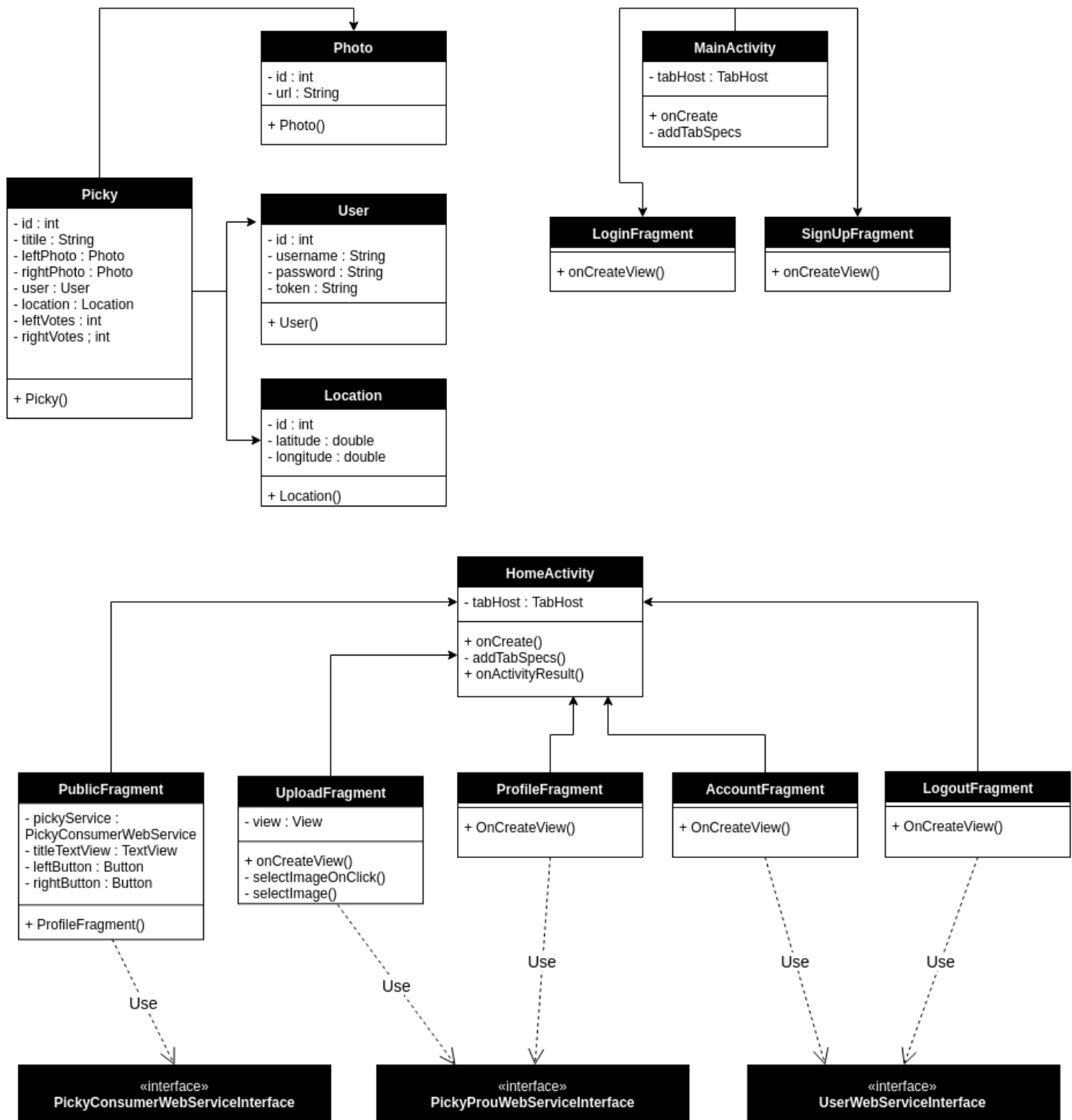
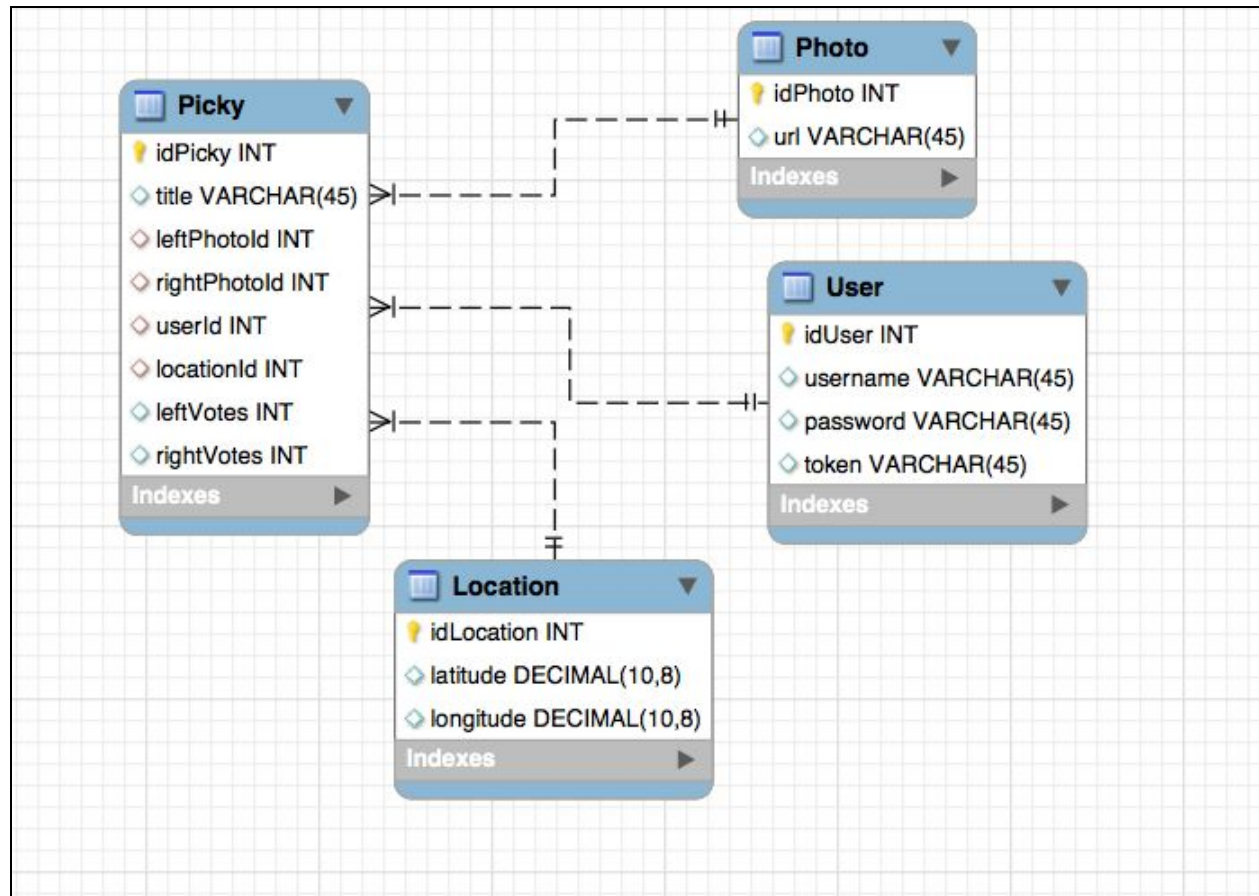


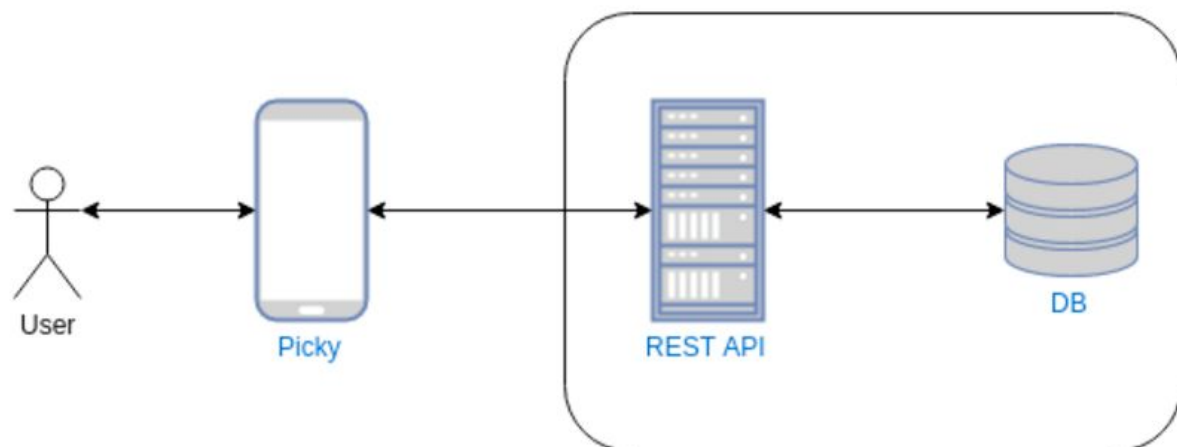
Class Diagram:



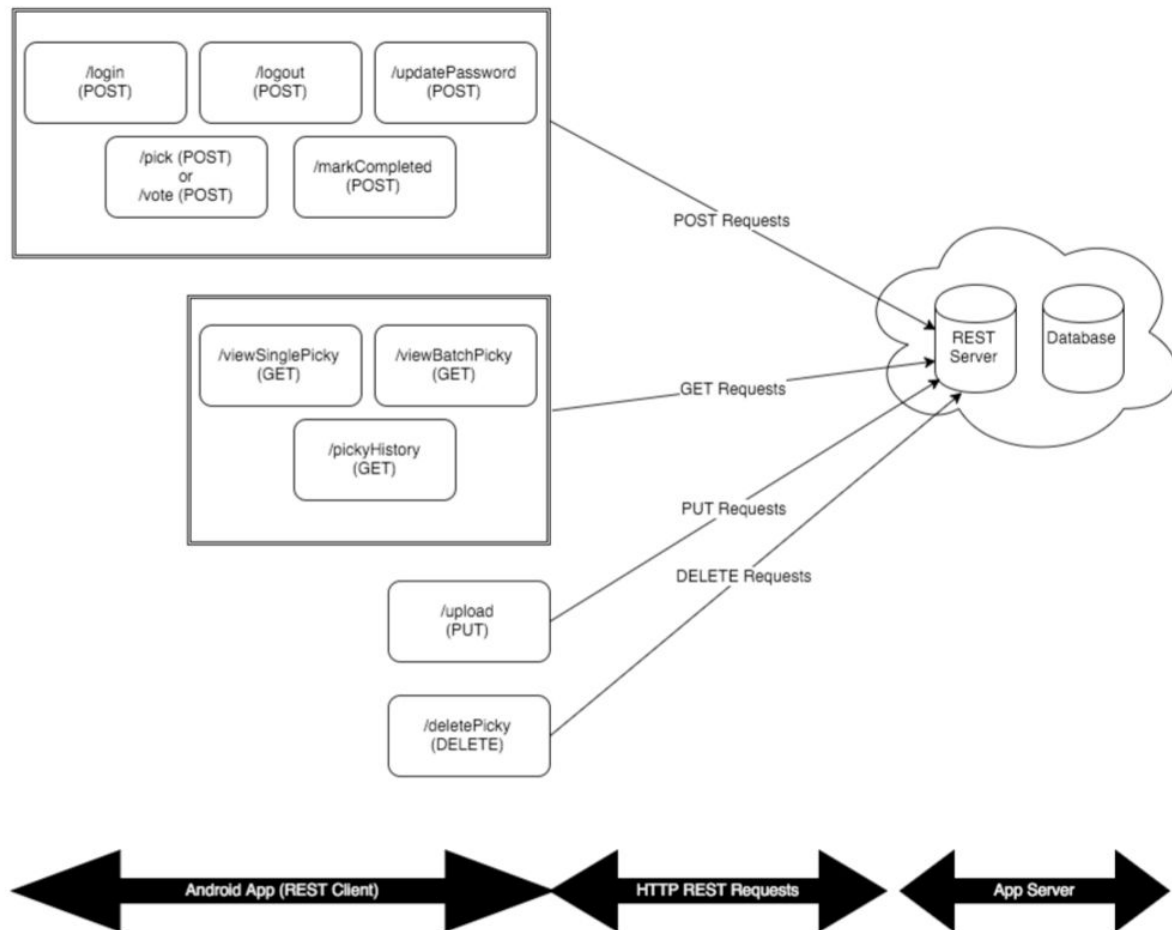
Database Schema :



Project High-Level Architecture :



REST API Specification Diagram :



Project Technology Stack :

Client Side :

- Android SDK

Server Side :

- Java
- Jersey for REST
- Tomcat as WebServer

Exception Handling and some self healing is planned :

- In order to avoid wrong input data from the user at the moment of uploading a picky exception and self healing will be used. The user needs to upload two images and a title/description, if something is invalid, then it will ask again the user until he puts the correct data.
 - In the web services in case of any unexpected error (network problems, null data, etc), exceptions will be caught and the code will try to fix the problem: retry a fixed number of tries, show an error message and/or put default data.
 - If the user did not accept the permissions, exceptions will be handle and try to ask again for the permissions.
-

Web Services are implemented for local and remote use:

The android app (client) interacts with the backend server via the remote web services.

Here are the various services that have been added :

- PickyProducerWebServiceInterface
 - Takes care of all the APIs that are required by the user to upload/edit/delete a picky. This service also helps the user to mark a picky complete.
 - PickyConsumerWebServiceInterface
 - This takes care of the audience/public who will access the picky wall/timeline to view and vote pickies. It also calls the backend server to ask for more pickies.
 - UserWebServiceInterface
 - This is purely a webservice to cater to user services, example login/logout/updatePassword.
-

Screens:

Login

The image shows a mobile application interface for a login screen. At the top, there is a blue status bar with a play button icon, 3G signal, battery level, and the time 8:32. Below this is a red header bar with the text ".p.i.c.k.y." in white. The main content area has a light gray background. It features two tabs: "LOG IN" (selected, indicated by a pink underline) and "SIGN UP". Below the tabs are two input fields: "Username" and "Password". Each field has a placeholder text of the same name. A red arrow points to the right, centered below the password field. At the bottom, there is a black navigation bar with three white icons: a triangle, a circle, and a square.

3G 8:32

.p.i.c.k.y.

LOG IN SIGN UP

Username

Username

Password

Password

→

Sing Up

3G 8:32

.p.i.c.k.y.

LOG IN SIGN UP

Username

Username

Password

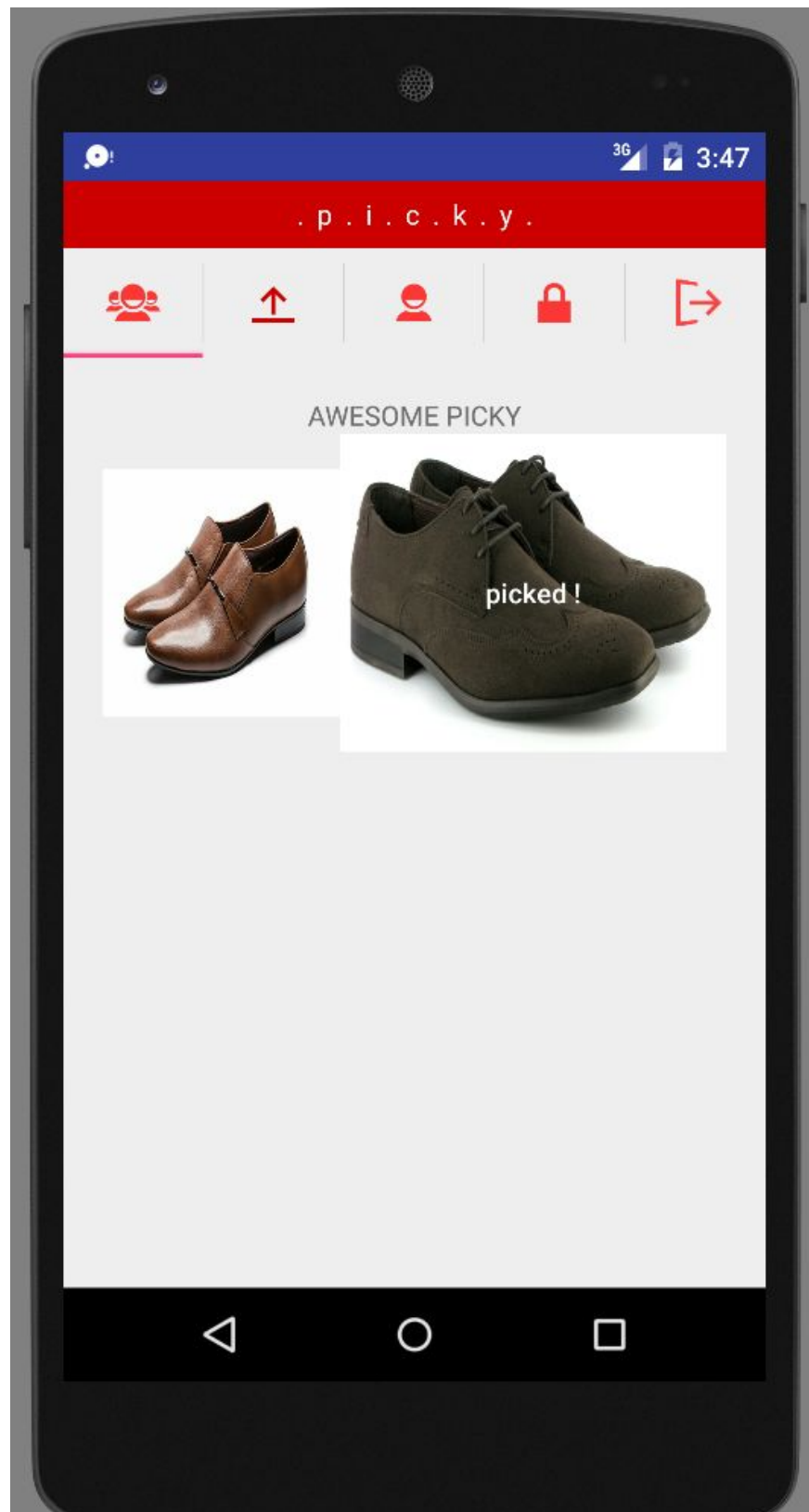
Password

Confirm password

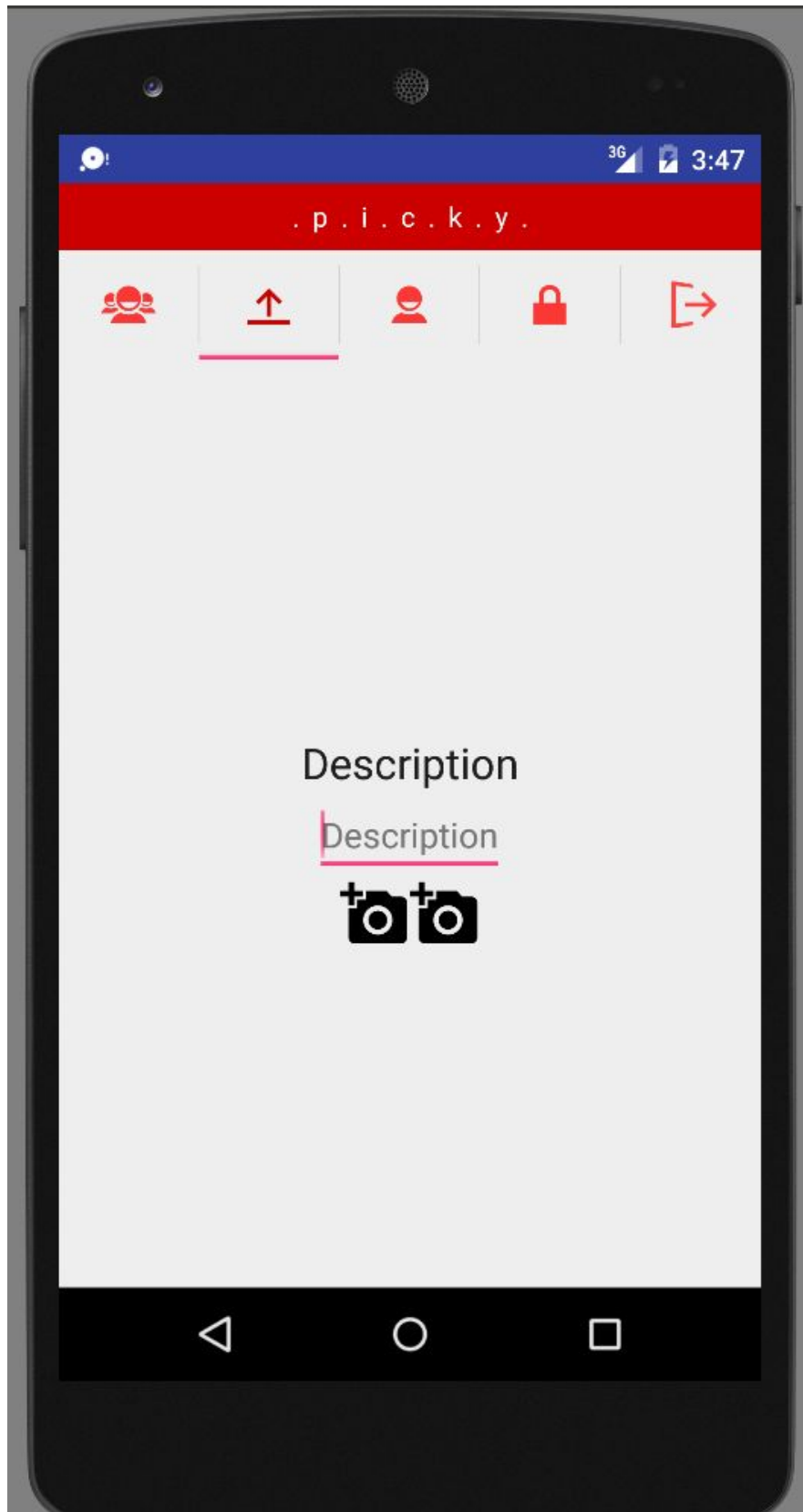
Password

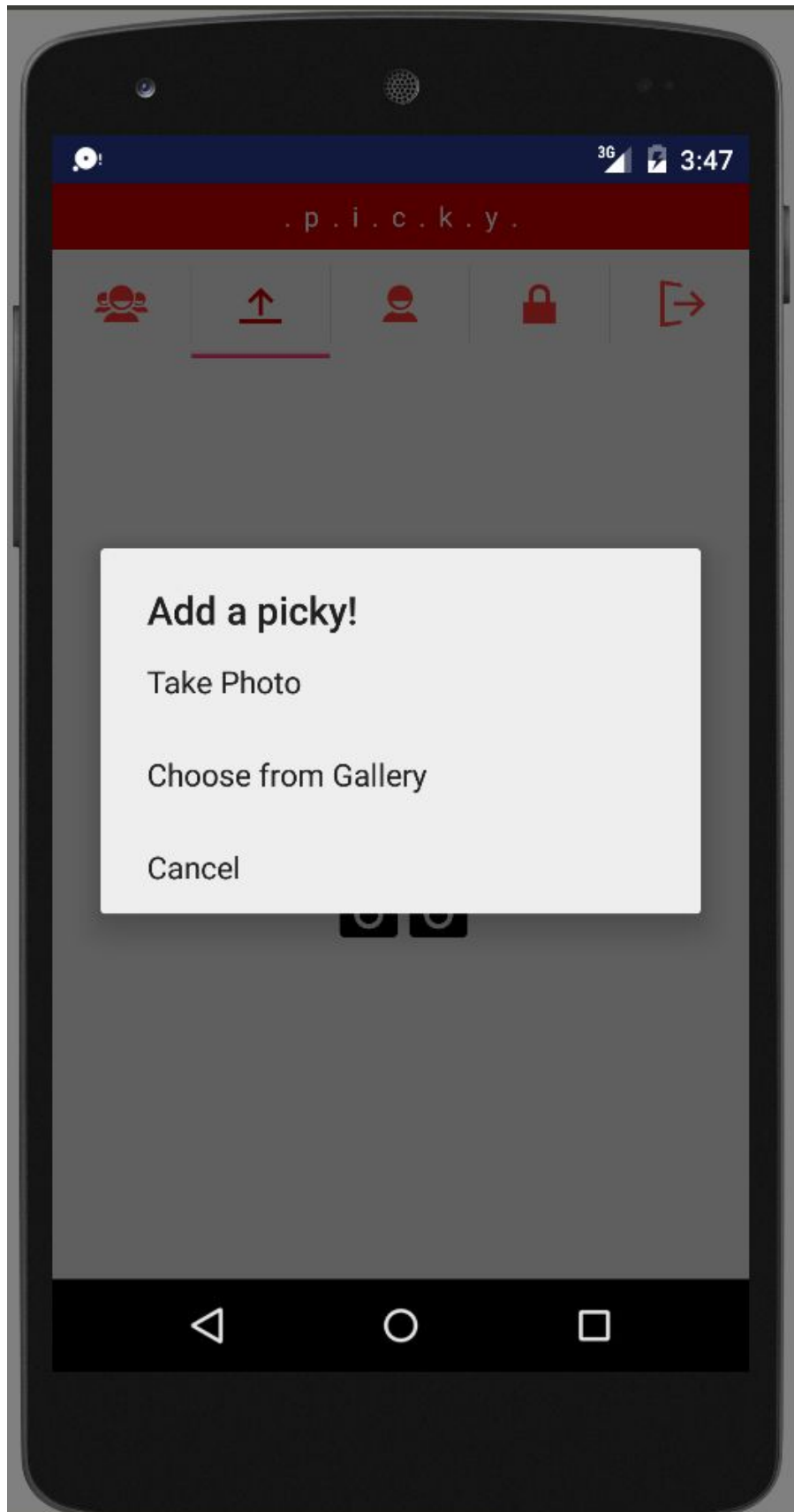
→

Public Timeline



Upload





.p.i.c.k.y.



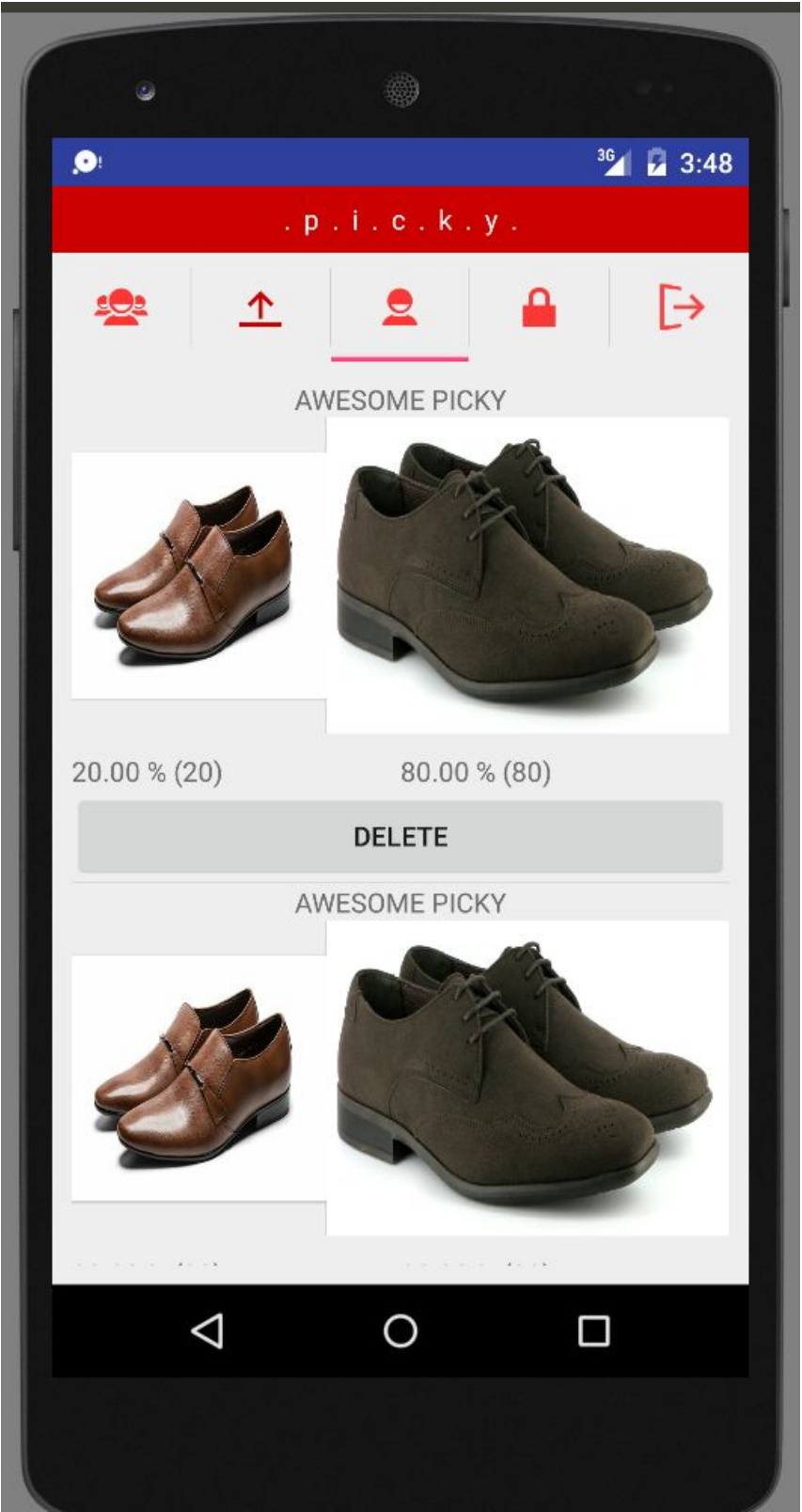
Add a picky!

Take Photo


Choose from Gallery


Cancel

Profile





Account





3G  8:33


.p.i.c.k.y.











Old Password

New Password

Confirm password

SAVE

Logout

