

My application is called Lost&Found. It is an Android application that allows CUNY students to post what they lost or found. The application has two main tabs, Lost and Found tab. Lost tab is for user who lost their items on campus, whether it's laptop or water bottle. The Found tab is for user who found items through the campus, for example school ID. To use this app, user will have to create a post to let other users know what he/she lost or found. To create a post the user will have to take a photo, and write a description of it. For example, "I found this water bottle on the 4th floor library next to the computer lab". If the owner of the item sees the posting, he/she can contact the user who found the item through Message, Call or Track. Users can message each other by using the built-in messaging system. They can talk to each other and decide whether to meet up to return the item to the owner. Besides messaging, users can call each other if preferred. However, in order to return the item to the owner, the Track feature must be used. Track is a feature that sends an email to the user who found the item so that he/she can contact the owner of the item. When clicked on Track, user must fill in a form to verify the user identity, e.g. full name, school id, phone number. Then the user needs to sign the form through the built-in signature pad to accept the terms and conditions.

Activities

LoginActivity - Activity for user to enter their email and password.

RegisterActivity - Activity for user to register for an account using their email and password.

MainActivity - Home activity for user to view between the Lost and Found tabs to see other users' posts.

MessageActivity - Activity to allow one user to message another user.

MessageViewActivity - Activity to view chats the user has messaged before.

PostActivity - Activity to allow user to post for a lost or found item.

PostViewActivity - Activity to view other user's post, either lost or found.

ProfileActivity - Activity to view the user's profile, allows to edit your information.

ProfileViewActivity - Activity to view other user's profile page, but you cannot edit.

Fragments

LostFragment - Fragment of the Lost post tab.

FoundFragment - Fragment of the Found post tab.

Classes

Message - Class to hold a message data e.g. user, message, and etc ...

MessageList - Class to hold all message data of that user.

Post - Class to hold a post information e.g. title, description, and etc ...

PostList - Class to hold all post data of either Lost or Found tab.

SecurityQuestions - Class to hold the security questions when a user want to track and contact other user.

Upload - Class to hold the post image url.

User - Class to hold a user information e.g. name, phone number, id, school, and etc ...

GMailSender - Class to send email to a user gmail account when a user is using track function.

JSSEProvider - Class to send email to a user gmail account when a user is using track function.

Adapters

MessageAdapter - Extends ArrayAdapter to populates a list of messages into a message view.

MessageViewAdapter - Extends ArrayAdapter to populates a list of chats into a chatting view.

PostAdapter - Extends ArrayAdapter to populates a list of posts into a Lost/Found Fragment view.

ViewPagerAdapter - Extends FragmentPagerAdapter to add fragments, lost and found, to switch between lost and found tabs view.

Usage

To use this app, first create a register through the app. Then, verify the account using the email you provided. After verifying, login and click on the hamburger menu to go to profile. In the profile section, enter your user information and click save. Now, you are free to create and view posts. You are also allow to use messaging, calling, and tracking features.

Testing Account

To make this easier, a testing account has already been created.

Email: lostfoundtesting@gmail.com

Password: A123456789d

Changes

I added much more features compared to my initial wireframe because I realized to make it more user friendly. I have to add more functionalities, like viewing chats and search bars, to improve user experience. However, due to time constraints, there are other features I was not able to implement which would improve this project. In general, the project is still the same as the original wireframe, I just added small improvements.

Pitfalls

Due to lack of time, I was not able to implement input checking. If a user create a post without image, title, or description, it will crash the application. If a newly created user did not go to Profile to enter user information and create post, it will crash the app. Any unexpected input from user will most likely crash the app.

