

Insti- Lost and Found

Team - Hackaholic Girls

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1 Introduction

This project aims to develop an application to track lost and found items within the IIT Bombay campus. As of now, lack of a single point of contact makes it difficult to find the lost item given the huge size of the campus and unavailability of coherent guidelines . Presence of a centralised application will help students, faculty or staff to identify and track their lost belongings. Also it will help people who find unidentified items, in returning it to their respective owners. The key features of this application will include a forum where details of lost items as well as found items could be posted after authorisation.

In our project we have implemented our very own lost and found application called "Insti-lost and found " where a user can login using his/her LDAP credentials and post images, descriptions as well as map location of lost as well as found items in different screens.He also has access to a news feed, from where he can see the list of recently found/lost items.To claim the item the person can send an email initiated on claim and contact the post owner.

2 Motivation

It has been observed people misplace their belongings very frequently and given the size of campus and heavy commotion throughout the day, it becomes very difficult to track the person who found the item in case the item has not been deposited to an authorised person or facility.

With the help of a centralised application,it becomes easier to track the owner as well as for the finder to have a sense of what to do with the item .

3 User Documentation

3.1 Installation

1. Download Android Studio from this link <Android Studio> . Please follow the instructions present in the website for based on your operating system
2. Clone/Download the Git repository from the Glink in the AndroidStudioProjects folder
3. Download Android SDK version 25 or above
4. Download the extra jar files from this link and place in the folder InstiLostandFound/libs/
5. Run android Studio
6. For the firebase credentials/login please contact us personally, We have not made the data public for security reasons.

3.2 Browsing the application

Here are the various screens and associated activities for browsing the application :

1. **MainActivity** : Contains the login screen for the user to login via LDAP credential
2. **Navigation** : Here the user can navigate the news feed by clicking on either lost/found buttons.
3. **PostLostItem** :The user is redirected to post lost item page. Here he/she can enter the title of the post, description, geographical location as well as the image which is optional for the lost item
4. **PostFoundItem** :The user is redirected to post found item page. Here he/she can enter the title of the post, description, geographical location as well as the image which is optional for the found item
5. **MypostsFoundRv** :Here when user clicks on My posts->Found, he can browse his own found posts , he can also edit or delete the posts
6. **MypostsLostRv** :Here when user clicks on My posts->Lost, he can browse his own lost posts , he can also edit or delete the posts

3.3 Utilisation/Scope

The application has all the basic utilities required for the lost and found scenario. The source code can be re-used by other developers building applications for similar purposes for their own organisation/university . Specifically, we have customised this application for our own campus@IITB and this can be integrated with the Insti App with slight interface modifications. However it has been designed to work separately as an independent app.