Project

* Name: Tripro
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* Co-worker: none
* Duration: 2017/10-2018/5
* Introduction:

This is an android app made from scratch, the purpose of this app is to combine the itinerary plan with social network.

As the public can see how you plan your trip and how beautiful the places you travel, they can do the similar plan and enjoy great time too.

In long term, the trip lovers can share their experiences and encourage more people to travel. As a result, it can rise every kinds of factory in the places where people would like to travel.

Feature

* Connect with social network.
* Plan the itinerary.
* Share self experiences without organize again.
* Looking for people around who might also like to travel.
* Get nice and clear journey schedule from others.
* Contact with the people who you want to talk with.

Contribute

* Source code: <https://github.com/a29831968/Project_Tripro>

Reference

* Instagram Clone: <https://github.com/mitchtabian/Android-Instagram-Clone/tree/e005e9b029514ec6380d49703985e3f40bbf221e>
* BottomNavigationViewEx: <https://github.com/ittianyu/BottomNavigationViewEx>
* Image Loader: <https://github.com/nostra13/Android-Universal-Image-Loader>
* Google API
* Google Firebase

Basic Architecture

Main---------------------------Login

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| |---------------------Home

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| |---------------------Profile

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| |---------------------Plan

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| |---------------------Google

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| -----------------------Alert

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Auxiliary----------------------Utils

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|--------------------------dialogs

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---------------------------models

Main: Main utility to achieve the features of the app.

Auxiliary: Packages that help the major function of the activity in the main branch.

Details

Login Package

Login--------------------LoginActivity

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---------------------RegisterActivity

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| Class Name | Description |
| LoginActivity | 1. Check if the user can sign in. 2. Check if the account is verified from E-mail. 3. Set up the button for navigating to Register page. 4. If the user can sign in, it will automatically swift to homepage. |
| RegisterActivity | 1. Register with E-mail. (FirebaseAuth) 2. Check if the account already exist or not. |

Home Package

Home-------------------HomeActivity

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---------------------HomeFragment

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---------------------MessagesFragment

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---------------------ChatActivity

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---------------------ChatDetails

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| Class Name | Description |
| HomeActivity | 1. Container for fragments(Home and Messages) 2. Implements interface that work as load more posts. |
| HomeFragment | 1. Retrieve user\_posts data from Database, and show them in the view. |
| MessagesFragment | 1. Retrieve the app users from Database and show by the listview. 2. Select item from listview and navigate to the Chat with selected user. |
| ChatActivity | 1. Chat area with the selected user. 2. Retrieve messages from Database, and show in the view. |
| ChatDetails | 1. The class which store the user id and display name for ChatActivtiy. |

Profile Package

Profile-------------------ProfileActivity

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----------------------ProfileFragment

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---------------------AccountSettingActivity

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---------------------EditProfileFragment

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---------------------SignOutFragment

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| --- | --- |
| Class Name | Description |
| ProfileActivity | 1. The class for fragment transaction. (ProfileFragment). 2. Implements interface for click function of GridImages. 3. Implements interface for load comments from database. |
| ProfileFragment | 1. Load all the user data from Database and show in the view. 2. Load posts data and show by the gridImages. |
| AccountSettingActivity | 1. Include the buttons for navigating to EditProfile or SignOut page. |
| EditProfileFragment | 1. Change the setting of the user, and modify the data in the database. |
| SignOutFragment | 1. For user sign out. |

Plan Package

Plan---------------------PlanActivity

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---------------------TripActivity

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--------------------- PhotoFragment

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--------------------- GalleryFragment

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--------------------- NextActivity

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--------------------- MapActivity

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--------------------- EditRoutieFragment

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---------------------InfoActivity

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--------------------- ItineraryActivity

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--------------------- ItinertaryShowActivity

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| --- | --- |
| Class Name | Description |
| PlanActivity | 1. The class for transaction of fragments(PhotoFragment). |
| TripActivity | 1. Retrieve trip information data from database and show in the view. 2. The button on the top right can add new trips. |
| PhotoFragment | 1. Open the cellphone camera. |
| GalleryActivity | 1. Show photos which are retrieve from the device. 2. After select the photo, navigate to the NextActivity. |
| NextActivity | 1. Writing description for posting trip plan. |
| MapActivity | 1. Choose the place where you want to go, find the shortest path and calculate the duration. |
| EditRoutieFragment | 1. For editing the trip details. |
| InfoActivity | 1. The screen for users to set their trip information(name, date and day.) |
| ItineraryActivity | 1. Show each details data(from database), and display on the view. 2. Can edit the details by pressing the button on the view. |
| ItinertaryShowActivity | 1. This is the class for retrieving trip details(go where, and when), and display on the layout. |

Google Package

Google------------------GoogleActivity

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| Class Name | Description |
| GoogleActivity | 1. Once the user allows to use google map, the current location will show on the map. 2. It can also find the app users who is around you. |

Alert Package

Alert--------------------AlertActivity

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| Class Name | Description |
| AlertActivity | 1. Enter the user name, mapping to the user from Database. 2. Navigate to the profile page of the user you are looking for. |

Utils Package

This includes all the classes that are used for dealing with the data, layout and multiple utilities.

Models Package

These are the models which is used for retrieving data from Firebase more convenient.