


<b>DOKUMENTASI EKSTERNAL</b> <i>External Documentation</i>	
<b>PROYEK</b> <i>Project</i>	
<b>MATAKULIAH MOBI6021 – MOBILE PROGRAMMING</b> <i>Subject</i>	
<b>SEMESTER GENAP 2019/2020</b> <i>Even Semester Year 2019/2020</i>	

## Judul Proyek

*Project Title*

- Gold Experience

## Pendahuluan

*Introduction*

- **Gold Experience** is an application that will make a simple plan based on a list of interesting places, provided by the application. The plan could be personalized by registering their own profile, and keeping it secret within their own account. Since it has been developed in a mobile version, **Gold Experience** will be a handy application in any situation.

## Dokumentasi

*Report / Documentation*

- Activity List
  - Login Form
  - Register Form
  - Place List Activity
  - Place Detail Activity
  - Plan List Activity
  - My Profile Activity
- Creative Thinking
  - Use `GoldExperience` as the main class and the main data controller
  - Use MVP architecture as its clean architecture to support clean code, with the view layer and the presenter layer merged (to simplify the project complexity)
  - Use `utils/*` as helper classes
  - Use `Place`, `User`, and `Plan` inside `data/model` as the data's container class
  - Use template XML and abstract class for multiple usage of profile form (and prevent a lot of duplicate codes)
  - Use `res/values/strings` to store all texts instead of hard-coded those texts
  - Throw an exception whenever there is invalid data on registration or update profile form (including duplicate email addresses).
  - Auto fill email after register or logout
  - This application does not need any location permission since the application only uses location from the database, not the user's current location.

- Device Specifications  
Here a list of devices used in testing phase
  - API 28 Android 9: Asus ZenFone Max Pro M1
  - API 24 Android 7.0: Nexus 5X (*Emulator*)
  - API 24 Android 7.0: Pixel 2 (*Emulator*)
  - API 23 Android 6.0: Nexus S (*Emulator*)
  - API 27 Android 8.1.0: Pixel 2 (*Emulator*)
  - API 23 Android 6.0: phone

## Referensi

### References

- Here a list of URLs that had been accessed and (maybe) give some insights to this project
  - <https://android--code.blogspot.com/2015/08/android-radiogroup-set-selected-index.html>
  - <https://developer.android.com/guide/topics/ui/dialogs#java>
  - <https://developer.android.com/reference/android/content/Context.html#getString%28int%29>
  - <https://developer.android.com/reference/android/support/design/widget/BottomNavigationView>
  - <https://mkyong.com/android/android-radio-buttons-example/>
  - <https://stackoverflow.com/questions/14933330/date-picker-how-to-popup-date-picker-when-click-on-edittext>
  - <https://stackoverflow.com/questions/16076985/listview-row-buttons-how-do-i-create-a-custom-adaptor-that-connects-a-view-onclick/16077840#16077840>
  - <https://stackoverflow.com/questions/18677421/android-relativelayout-in-scrollview>
  - <https://stackoverflow.com/questions/1944656/android-global-variable>
  - <https://stackoverflow.com/questions/24992936/how-to-check-if-a-radiobutton-is-checked-in-a-radiogroup-in-android>
  - <https://stackoverflow.com/questions/3438276/how-to-change-the-text-on-the-action-bar>
  - <https://stackoverflow.com/questions/3676095/relativelayout-height-to-fill-remaining-space/30149147>
  - <https://stackoverflow.com/questions/5271387/get-color-int-from-color-resource/32253801#32253801>
  - <https://www.journaldev.com/17899/java-simpledateformat-java-date-format>
  - <https://stackoverflow.com/questions/18097748/how-to-get-row-count-in-sqlite-using-android/18098603#18098603>
  - <https://stackoverflow.com/questions/11776356/android-sqlite-contraint-conflict-try-catch-couldnt-catch/12725468#12725468>
  - <https://developer.android.com/training/data-storage/sqlite#PersistingDbConnection>
- (Maybe) Unrelated, but could be related in the future
  - <http://www.programmersought.com/article/1187676681/>
- The only image used in this project
  - [https://www.flaticon.com/free-icon/g-logo-circle\\_7719](https://www.flaticon.com/free-icon/g-logo-circle_7719)

- [https://www.flaticon.com/free-icon/contract\\_2285296](https://www.flaticon.com/free-icon/contract_2285296)
- [https://www.flaticon.com/free-icon/user\\_1077063](https://www.flaticon.com/free-icon/user_1077063)

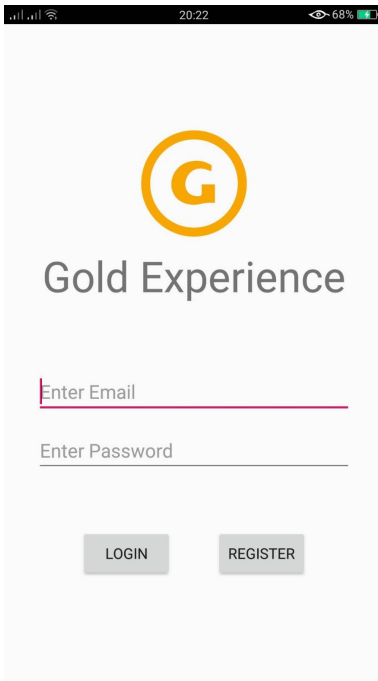
**Disiapkan Oleh,**

*Prepared by,*

- 2001561184 - Edward Keitaro Heru
- 2001566840 - Andreas Martin
- 2001572080 - Mike Christ Heru

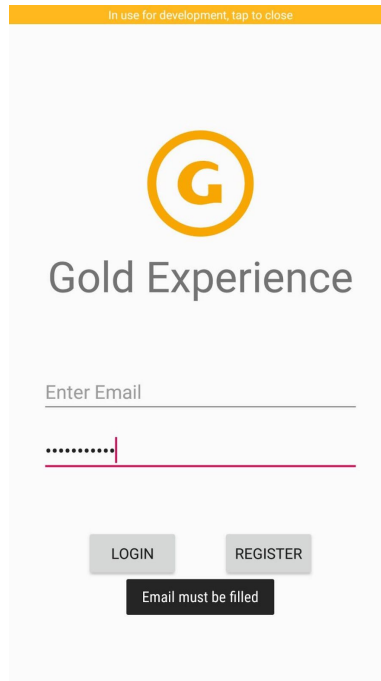
## 1. Login Form

This is an activity whenever a guest opens the application. It asks the user to provide a valid credential in order to log in to the application. It will show a proper warning, or will display the place list (see the 3rd activity). If the guest does not have a credential and wants to register a new one, he/she could press the register button and will be brought to the register form.



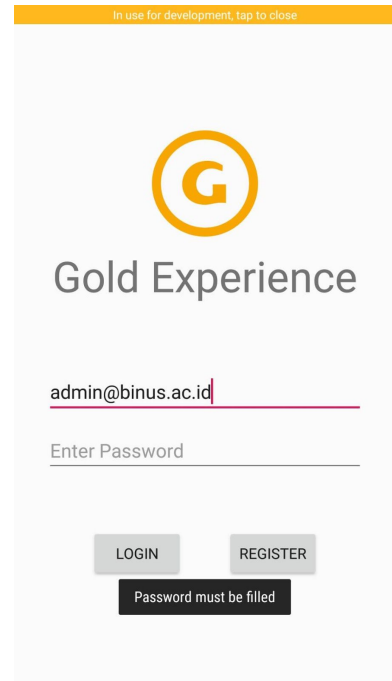
The screenshot shows the Gold Experience login form. At the top, there is a status bar with signal strength, time (20:22), and battery level (68%). Below the status bar is a yellow header with the text "in use for development, tap to close". The main content area features the Gold Experience logo (a yellow circle with a 'G') and the text "Gold Experience". Below the logo are two input fields: "Enter Email" and "Enter Password". At the bottom, there are two buttons: "LOGIN" and "REGISTER".

**Figure 1**  
Login Activity



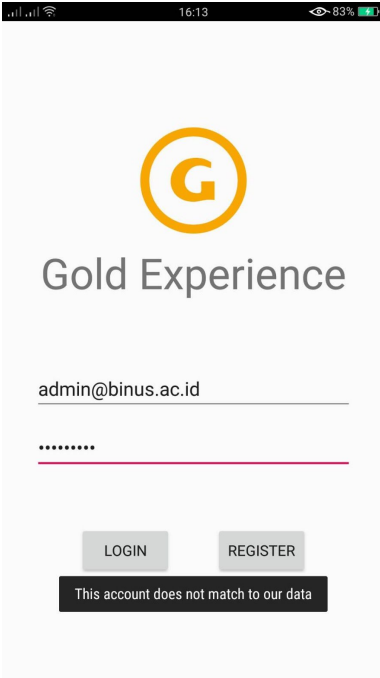
The screenshot shows the Gold Experience login form with an empty email warning. The "Enter Email" field is empty, and the "Enter Password" field contains a series of dots. Below the "REGISTER" button, there is a black warning box with the text "Email must be filled".

**Figure 2**  
Empty email warning



The screenshot shows the Gold Experience login form with an empty password warning. The "Enter Email" field contains the text "admin@binus.ac.id", and the "Enter Password" field is empty. Below the "REGISTER" button, there is a black warning box with the text "Password must be filled".

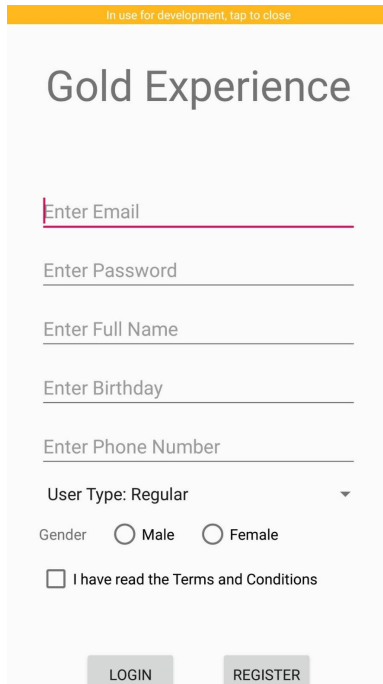
**Figure 3**  
Empty password warning



**Figure 4**  
Invalid credentials warning

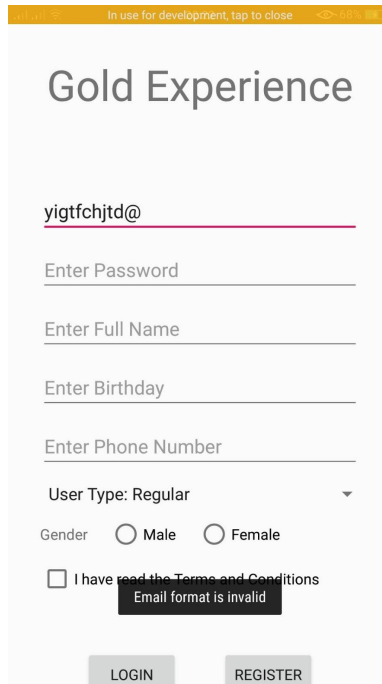
## 2. Register Form

This is an activity whenever a guest decides to register his/her personal account. It asks some details to be filled in and the application will show a proper warning if necessary. In order to complete the registration, the user needs to input a confirmation code sent to their phone number. Once the registration is completed, the application will send a welcome message and will show a login form once more.



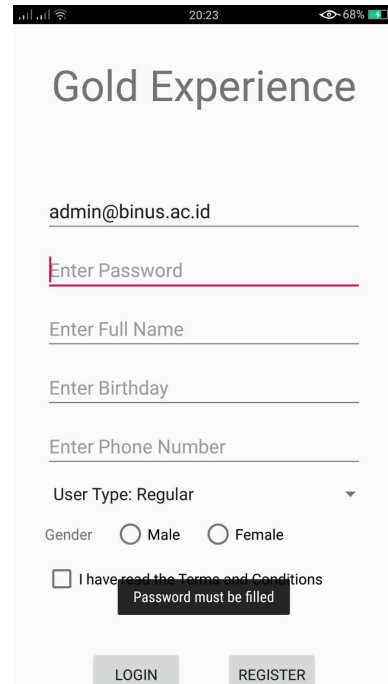
The screenshot shows the 'Gold Experience' register form. It has a yellow header bar with the text 'In use for development, tap to close'. The form fields are: 'Enter Email', 'Enter Password', 'Enter Full Name', 'Enter Birthday', and 'Enter Phone Number'. Below these is a 'User Type: Regular' dropdown menu, followed by 'Gender' with radio buttons for 'Male' and 'Female'. At the bottom is a checkbox for 'I have read the Terms and Conditions'. There are 'LOGIN' and 'REGISTER' buttons at the very bottom.

**Figure 5**  
Register Activity



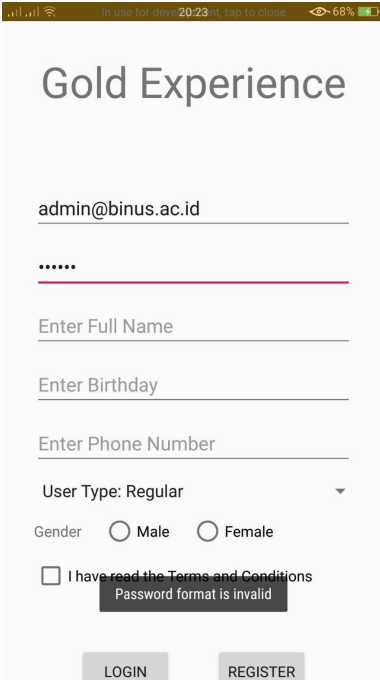
This screenshot shows the register form with the email field filled with 'yigtchjtd@'. A black warning box with the text 'Email format is invalid' is displayed over the 'REGISTER' button. The rest of the form and header are identical to Figure 5.

**Figure 6**  
Invalid email warning

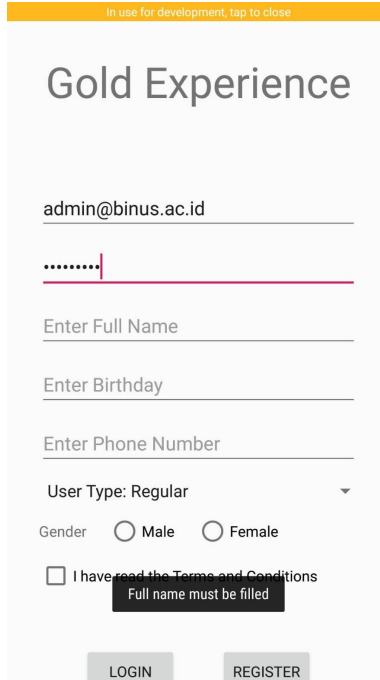


This screenshot shows the register form with the password field empty. A black warning box with the text 'Password must be filled' is displayed over the 'REGISTER' button. The rest of the form and header are identical to Figure 5.

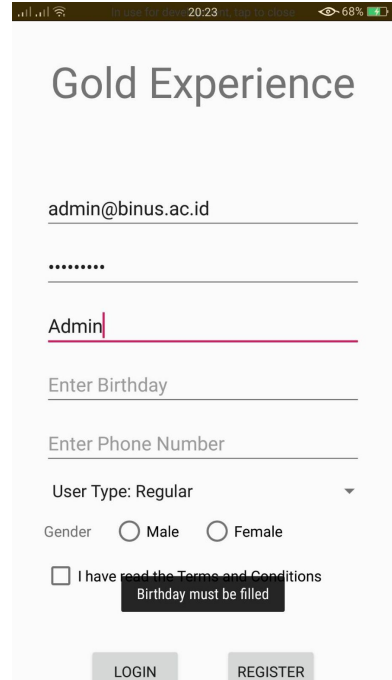
**Figure 7**  
Empty password warning



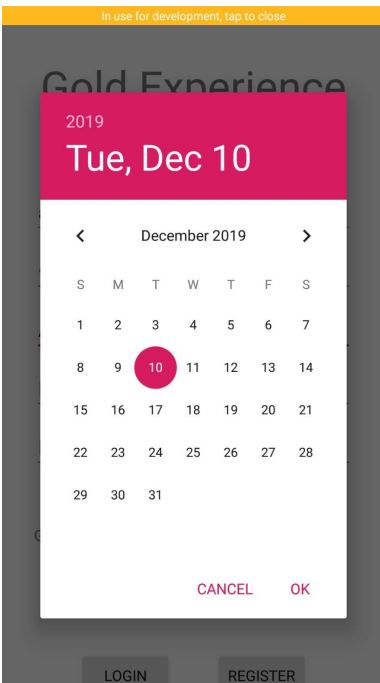
**Figure 8**  
Invalid password warning



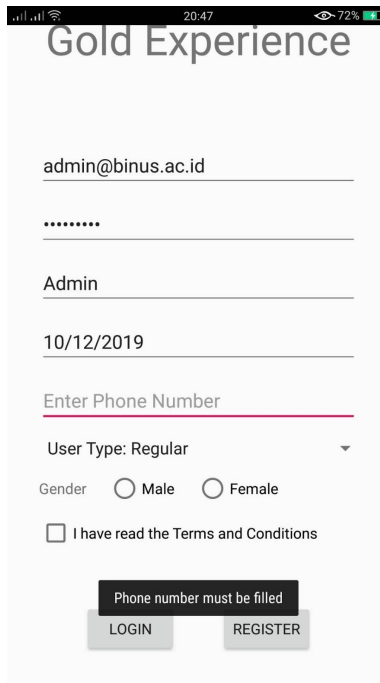
**Figure 9**  
Empty full name warning



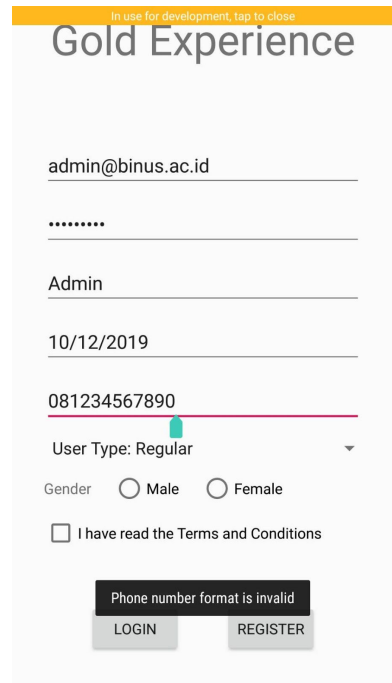
**Figure 10**  
Empty birthday warning



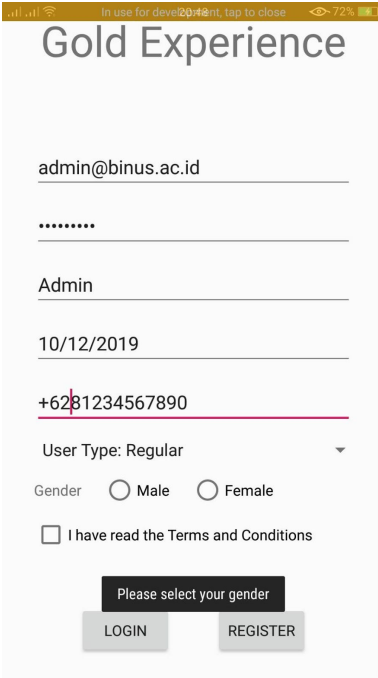
**Figure 11**  
Birthday picker dialog



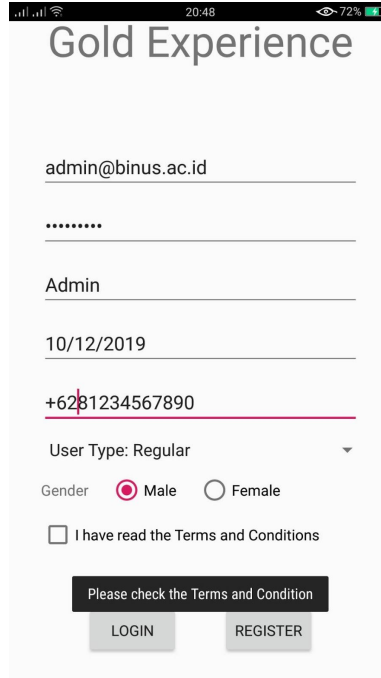
**Figure 12**  
Empty phone number warning



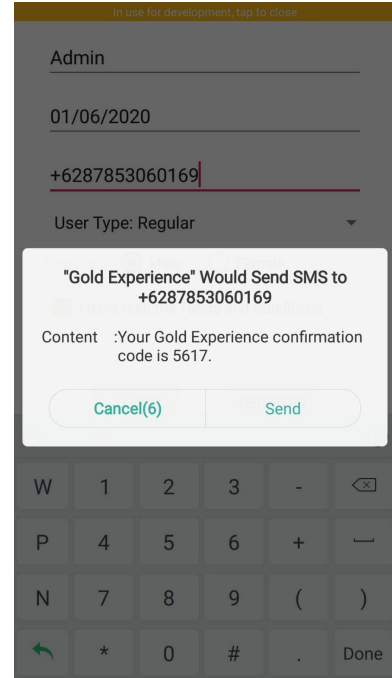
**Figure 13**  
Invalid phone number warning



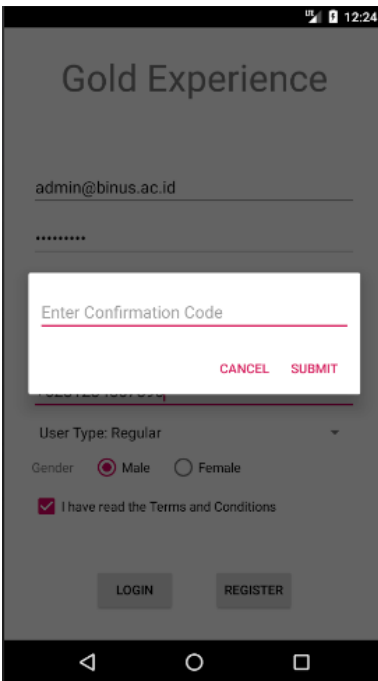
**Figure 14**  
Unselected gender warning



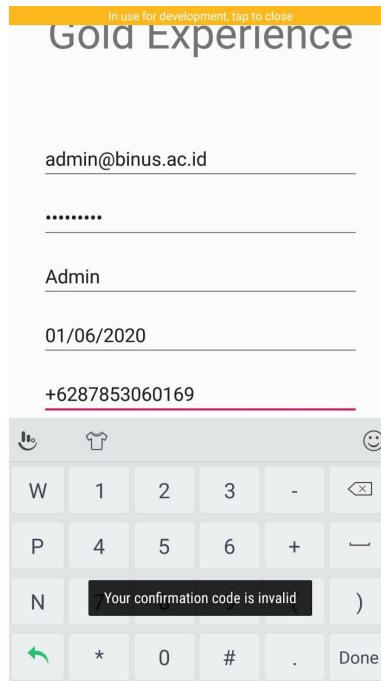
**Figure 15**  
Unchecked TnC warning



**Figure 16**  
SMS permission request



**Figure 17**  
Confirmation code dialog

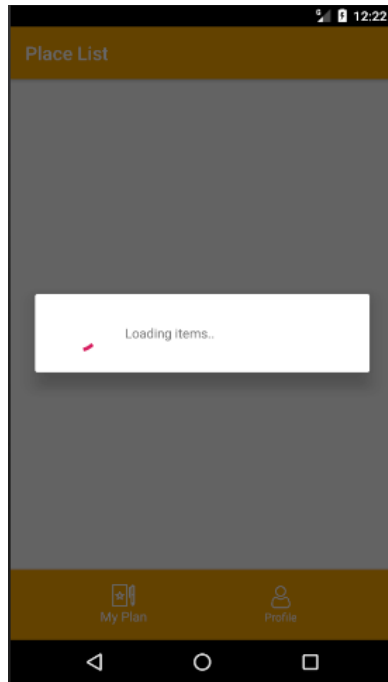


**Figure 18**  
Invalid confirmation code warning

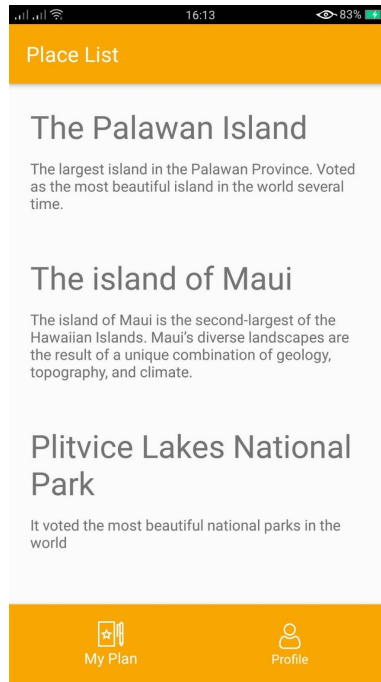


### 3. Place List Activity

This is an activity whenever a logged-in-user opens the application. It will display a list of interesting places. Whenever the user wants to see a detail of the place, he/she could simply tap it and the details will be shown. The list itself is stored online, so the application may delay and will show a loading bar.



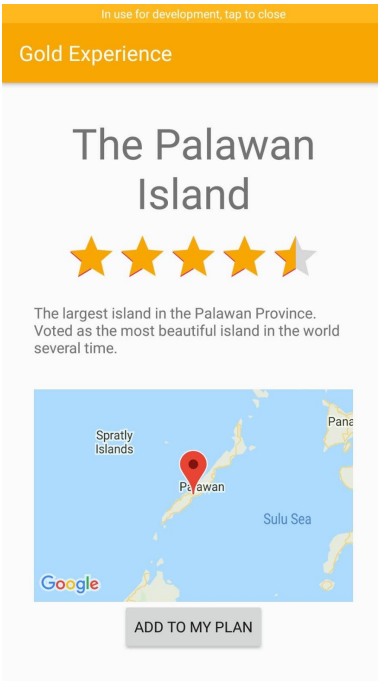
**Figure 19**  
Loading items



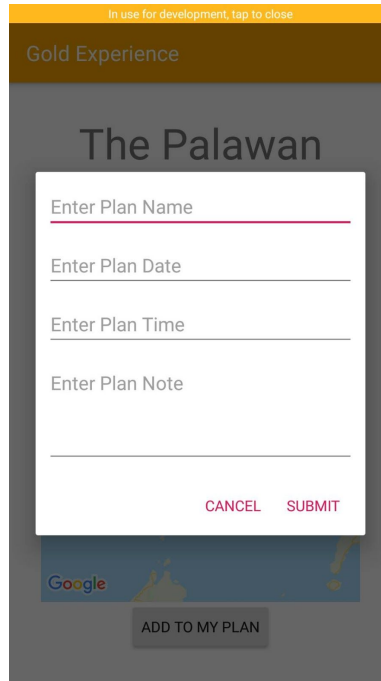
**Figure 20**  
Place List Activity

#### 4. Place Detail Activity

This is an activity whenever the user taps one of the places provided. It will show a detail and a map of the location. If the user wants to add the selected place to his/her plan, the form will be shown after the “Add to My Plan” button was pressed.



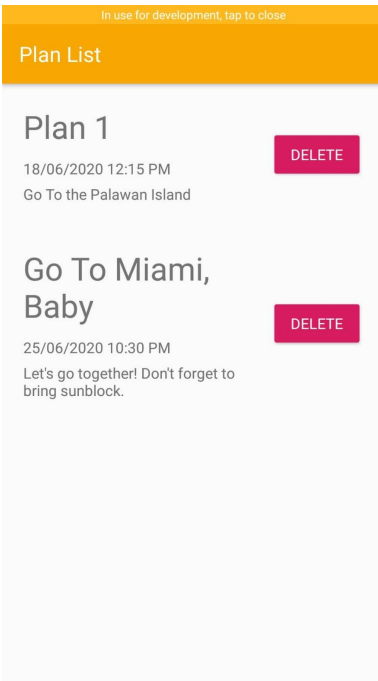
**Figure 21**  
Place Detail Activity



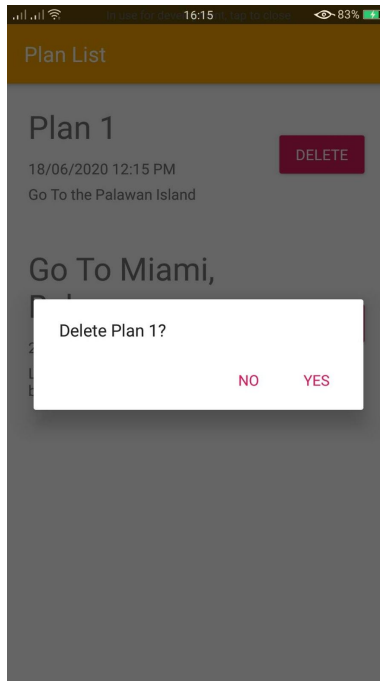
**Figure 22**  
Add plan dialog

## 5. My Plan List Activity

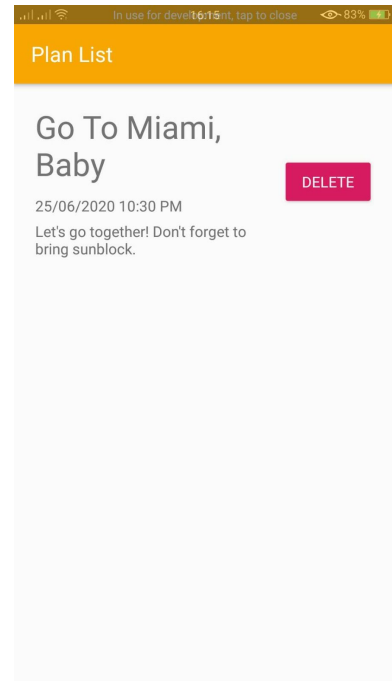
This activity will display a list of created plans. The user may delete his/her own plans if necessary. This list also displays past events with a red background to differ them with upcoming events.



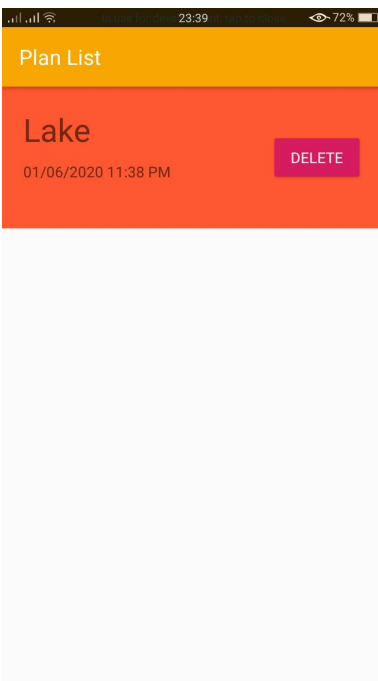
**Figure 23**  
My Plan List Activity



**Figure 24**  
Delete plan dialog



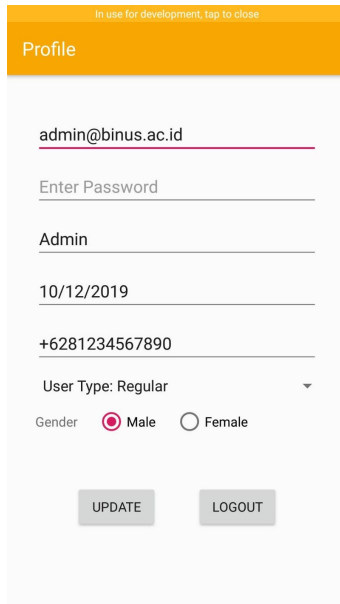
**Figure 25**  
Plan list after deletion



**Figure 26**  
An example of a past event

## 6. My Profile Activity

This is an activity to view or update current user profiles. The user also could logout from the application through the suitable button.



In use for development, tap to close

Profile

admin@binus.ac.id

Enter Password

Admin

10/12/2019

+6281234567890

User Type: Regular

Gender ☒ Male ☐ Female

UPDATE LOGOUT

**Figure 27**  
My Profile Activity