**INDIVIDUAL REPORT**

Student: Truong Thanh Thao

ID: 300284134

The product of our group project is a sharing events application that allows users to view nearby events around their current device’s location and favored any events they are interested. Furthermore, users can also create and manage their own events. My responsibilities in this project are mainly building the skeleton of the application, designing the interface and how it interacts with users, texting and fixing bugs, preparing reports and presentation slides.

# **Construct application’s skeleton and interface**

## **Build static application and structure fragments**

Initially, I built a static application with three main fragments as described in the proposal with bottom navigation bar. The ViewpageAdapter was written to display three main fragments: EventsListFragment, UserInfoFragment, CreateEventFragment.

I designed the interface for all fragments and activities and displayed ListView of static events in EventListsFragment.

## **Design app logo, app icon and color theme and fonts**

I was in charge of creating all the styles in the our application including toolbar header, button, gradient background.

## **Create bottom navigation bar with icons**

BottomNavigationHelper is created for aligning the icon in the middle and for customising the size of the icon.

## **Design search toolbar, scrollable toolbar in SingleEventActivity**

In login and registration activities, in order to match the toolbar with gradient background, i was setting the background to window app view in AuthActivity.

In Single Event Activity, as it made the app look cooler and fancier, the scrollable toolbar was implemented using Coordinate layout combined with CardView. Onfoffsetchanged function for calculating the percent changes of background view when users scrolling was overwritten.

## **Style like button with heart icon**

In the events details activity, I wrote function for toggling between the like and unlike of the ‘heart’ button, and changed the image resources of the button accordingly.

## **Create tab layout in user’s profile**

Two more fragments are created including: EventCreatedFragment and EventLikedFragment to show list events that user created or liked.

## **Create circle image and design edit buttons for user’s image and user’s name**

Implementing outsource library - ‘de.hdodenhof:circleimageview:2.2.0’ to build a circle overlay in the user’s avatar and combine with Constrain Layout.

The edit buttons used icons for better visual.

## **Populate and display information to the interface**

In SingleEventActivity, I used CardView to display events’ information: name, date and time, location, description, and GoogleMap view.

# **App testing and fixing bugs**

There are some major and minor bugs including:

* Date/ time is not constraint when users input end date less than start date.
* Month of the date is not display correctly
* When users not choosing any photos to upload, the app crashes
* Create event button does not validate user’s input, allows blank in event’s name, date & time, and location

# **Write reports and prepare PowerPoint slides**

I prepared most of the documentation from beginning of the course, including proposal, report interim, final report and PowerPoint slides for presentation.