

Android Application Demo Test

In this test, you need to create an Android app which named with format **Xtremax-<Your nickname>**. Basically, this test will let us know how far you know about Android app development. The demo will be held in the middle of Programming Test. Therefore please prepare the resulted APK of your app too.

The screens and specifications of the app are listed below.

Screens

Below are list of the screens that need to be created along with their descriptions. The wireframe of each screen and navigation flow of the whole app is attached as separate image.

1. Login Screen

This page contains required name field and a Login button. If Login button is clicked, it redirects to the next screen (Home Screen) if name field is not empty. If don't, it gives error message instead (via toast/dialog/snackbar).

2. Home Screen

The home screen shows the list of User data which is retrieved from the first API (see Table of API). If the User item is clicked, it will redirect to User Details Screen which shows the details of the chosen User. You are welcomed to use any library. The name of the logged user also shown at the toolbar of this screen.

3. User Details Screen

This screen shows the details of the User that's clicked from previous screen. See the wireframe to find out the data need to be displayed.

Bonus Features

You don't have to implement all of these features, but there will be an advantage if you do.

1. Implement facilities tab

If this feature is implemented, then the Home screen becomes tabbed layout containing Users and Facilities tab. Screen on Facilities tab shows a button and several Facility objects in a grid view. Each Facility item views the thumbnail, name and rent cost of the Facility. Show Cheapest button, if clicked, informs the name of the cheapest Facility (based on their basic rent cost). To get the cheapest Facility, please provide general proper algorithm.

For each item, you can use dummy image as image of Facility thumbnail. The shown data are not fetched from web API and the dummy data for this section are given at Facilities section. The navigation flow for this bonus feature is also attached as separate image.

2. Display image of Facility thumbnail

Consider Thumbnail attribute of a Facility is an URL to an image resource. On Facilities tab,

you may load the thumbnail from its URL on each Facility item instead of put a dummy image on it. To load the image, you are welcomed to use any image loader library.

API List

Endpoint	Method	Description
https://jsonplaceholder.typicode.com/users	GET	Gives list of users' detail (there are 10 users).
https://jsonplaceholder.typicode.com/users/{id}	GET	Gives detail of user with given id.

Facilities

Here are the Facility class specification and dummy data need to be displayed on Facilities Screen. Each Facility is formatted (**id**, **name**, **thumbnail**, **cost**) the type of each attribute are integer, string, string and double respectively.

- a. (1, Tennis Court, <http://placeholder.it/150/30ac17>, 20.00)
- b. (2, Meeting Room, <http://placeholder.it/150/dff9f6>, 25.00)
- c. (3, BBQ Pit, <http://placeholder.it/150/30ac17>, 15.00)
- d. (4, Soccer Field, <http://placeholder.it/150/dff9f6>, 10.00)
- e. (5, Gym, <http://placeholder.it/150/30ac17>, 17.50)
- f. (6, Auditorium, <http://placeholder.it/150/dff9f6>, 12.25)
- g. (7, Class Room, <http://placeholder.it/150/30ac17>, 8.50)
- h. (8, Aerobic Room, <http://placeholder.it/150/dff9f6>, 13.00)