

SafeMeet

Manual of Establishment and Utilization

Created by XINMIN YANG

Tips :

Due to the application is not running in a public IP, this manual includes [2 parts](#) and introduce you individually [how to establish the server](#) in your local devices (commonly your laptop or PC) and [how to use the application](#) with your Android devices (commonly your mobile phone). The whole manual will help you to [test the feasibility](#) of our solution to benefit and satisfy our customers' need with our prototype.

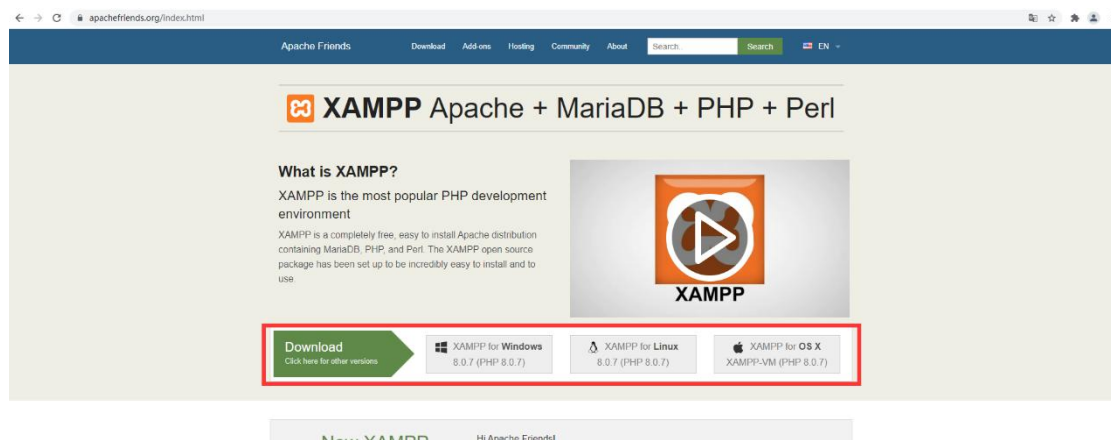
SERVER PART

As a Service Provider You Need to ...

** Tips: Please download the suitable version for your OS and we strongly recommend you establish your service in a Windows device.*

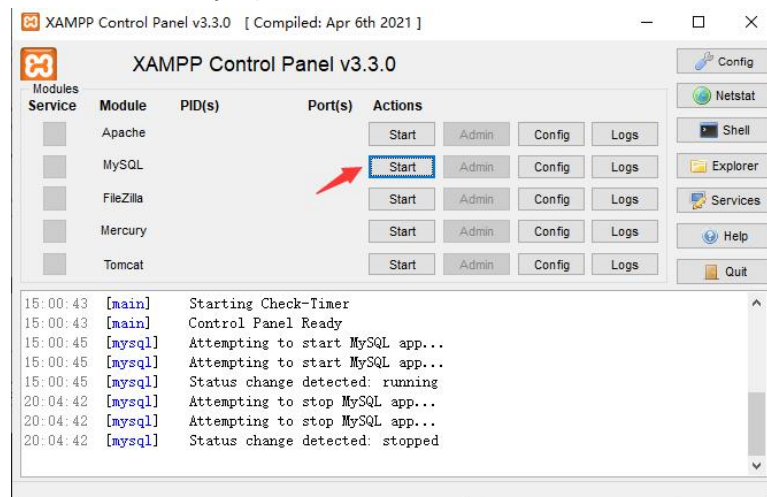
(1) Running the MySQL service and install the data visualization tool for MySQL.

1) Download XAMPP from <https://www.apachefriends.org/index.html>.



2) Install it into the OS disk (commonly this can avoid many privilege issues) and run it.

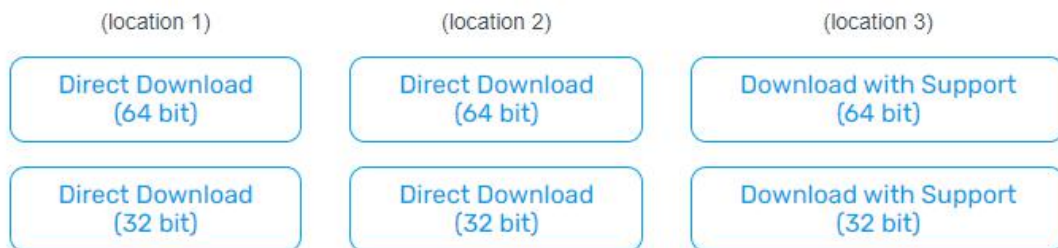
3) Click 'start' to run the MySQL service.



4) Download Navicat Premium from <https://www.navicat.com/en/download/navicat-premium> and install it.



Navicat Premium version 15

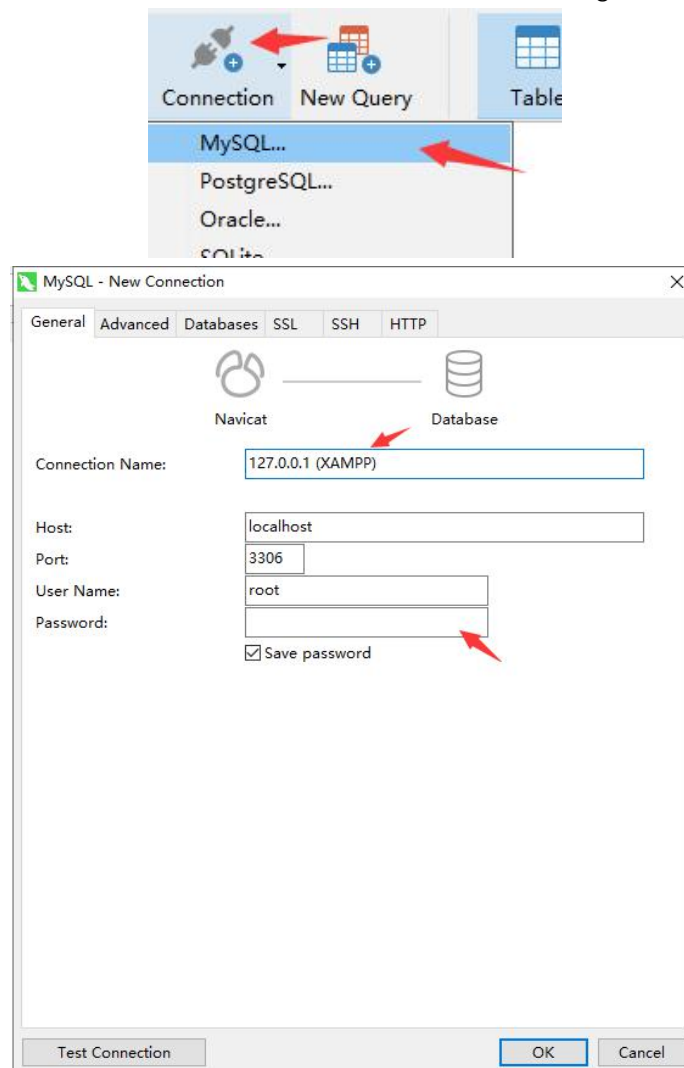


(2) Create connection and import our simple database file to your local MySQL database.

1) Download simple SQL file safemeet 1.2.3.sql from

<https://drive.google.com/file/d/1VxKMdExUq8tDX8swC1sR97JReE33ijfG/view?usp=sharing>

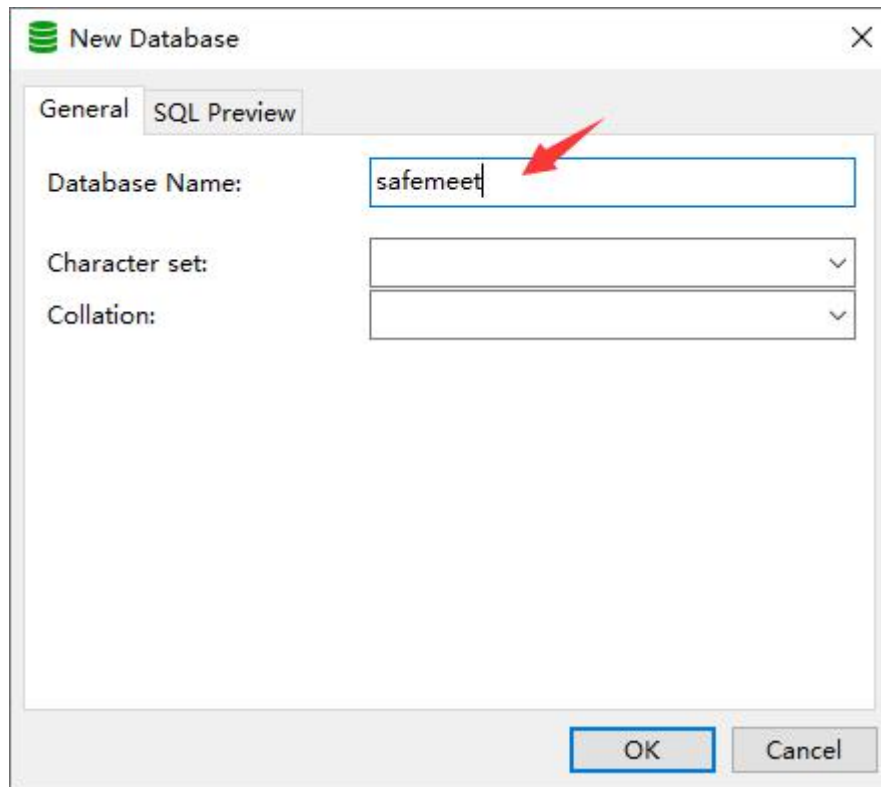
2) Open Navicat and create the connection with default setting.



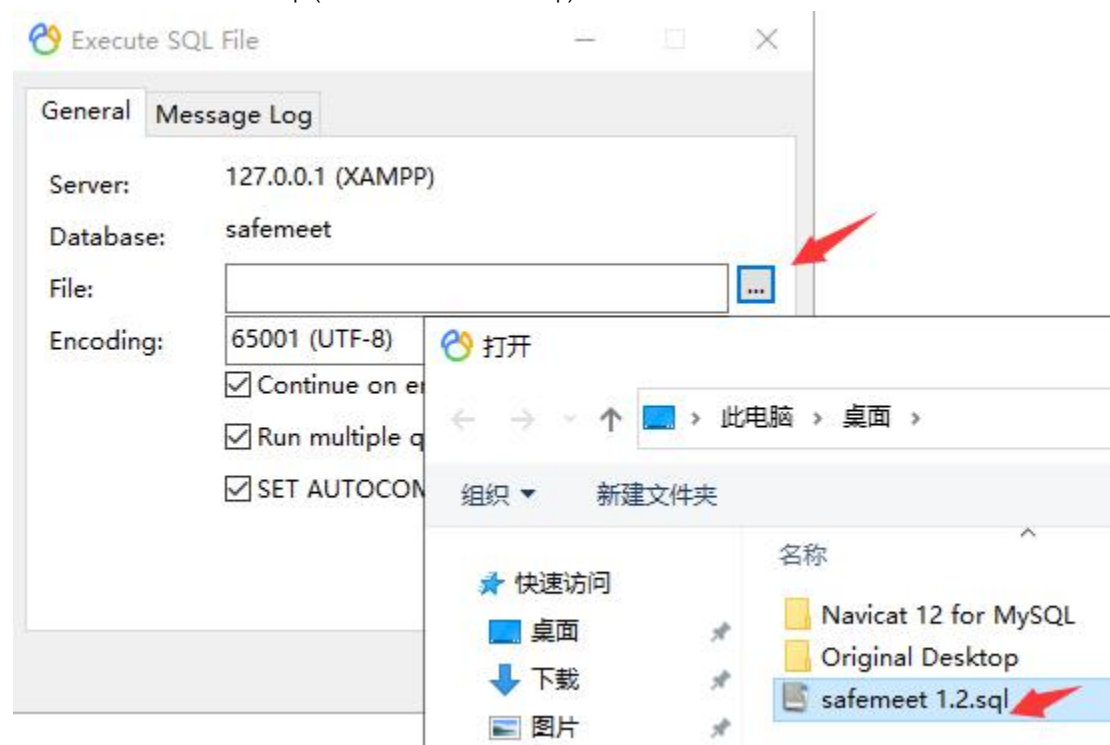
3) Double click on '127.0.0.1 (XAMPP)' in the left to establish the connection.

4) Right click on '127.0.0.1 (XAMPP)' and select 'New Database' and set the database

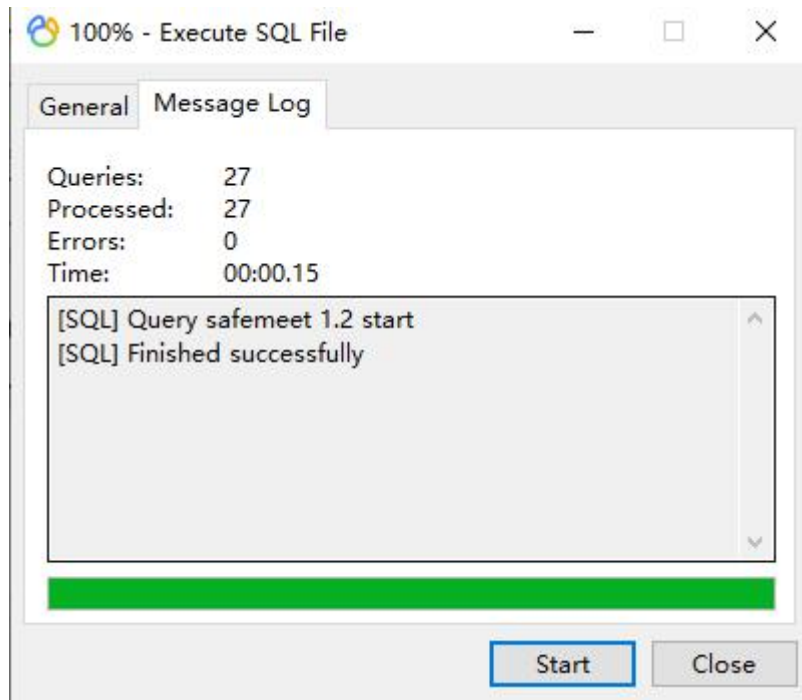
name as 'safemeet'.



5) Double click on 'safemeet' to start it, then right click it and select 'Execute SQL File...'. Select safemeet 1.2.1.sql (or safemeet 1.2.2.sql) and click start.

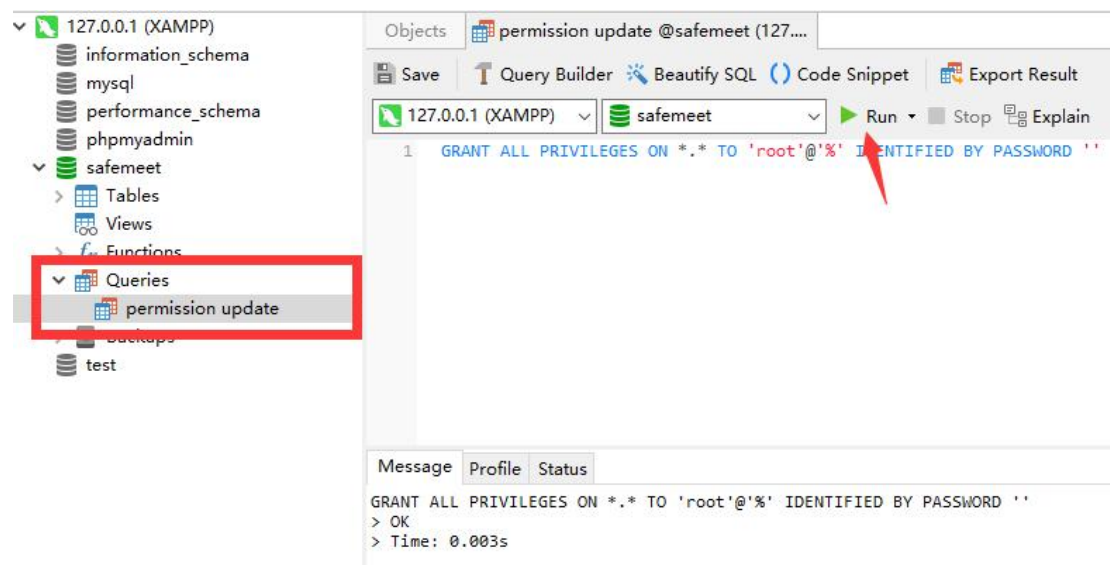


6) Click 'Close' after the successful execution.



7) Right click 'safemeet' and select 'Close Database', then right click it again and select 'Open Database' to refresh it. You can manipulate data in your database with Navicat.

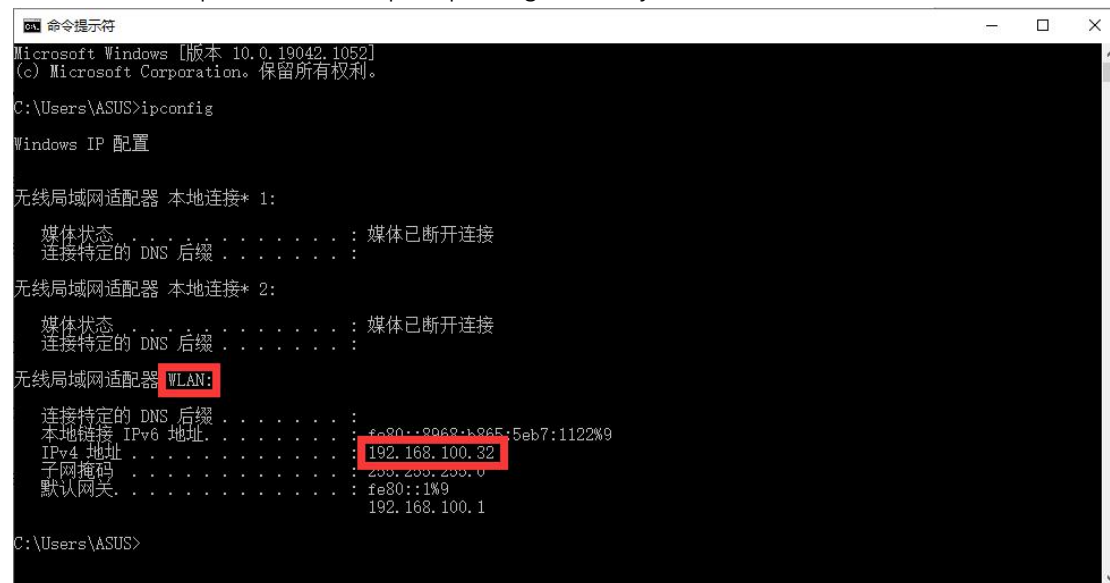
8) Run the permission update query.



** You can also use other ways to establish the service of MySQL and import the sql file, for example, using MySQL and its Workbench.*

(3) Get the IP address of your local device.

For Windows, open cmd and input 'ipconfig' to find your local WLAN IP address.



```
命令提示符
Microsoft Windows [版本 10.0.19042.1052]
(c) Microsoft Corporation. 保留所有权利。

C:\Users\ASUS>ipconfig

Windows IP 配置

无线局域网适配器 本地连接* 1:

    媒体状态 . . . . . : 媒体已断开连接
    连接特定的 DNS 后缀 . . . . . :

无线局域网适配器 本地连接* 2:

    媒体状态 . . . . . : 媒体已断开连接
    连接特定的 DNS 后缀 . . . . . :

无线局域网适配器 WLAN:

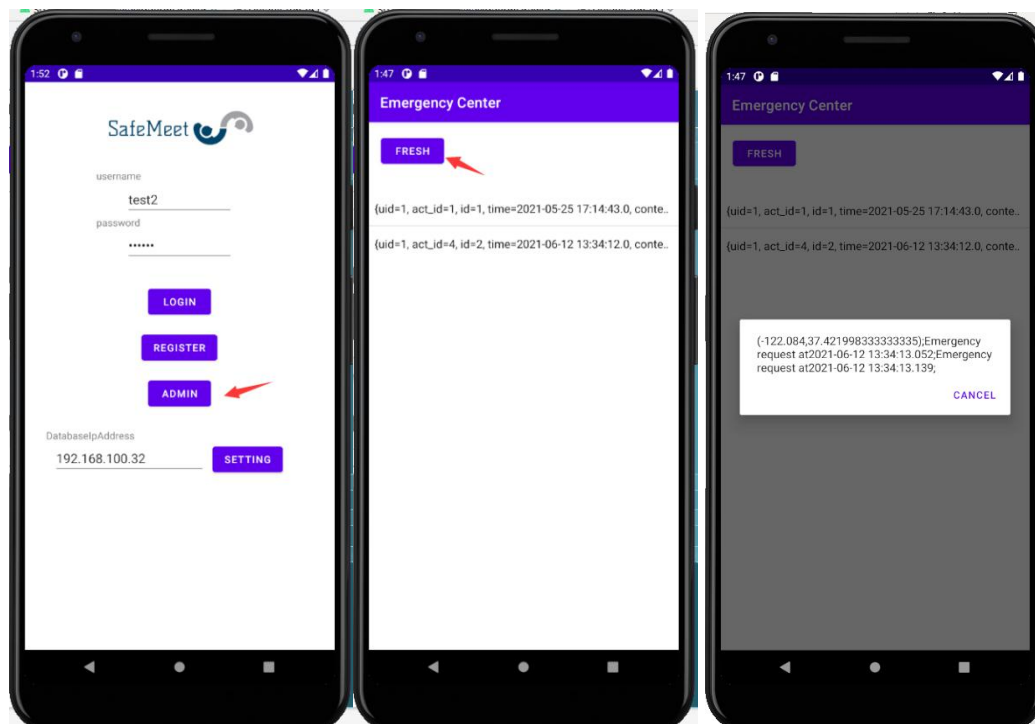
    连接特定的 DNS 后缀 . . . . . :
    本地连接 IPv6 地址. . . . . : fe80::8068:b865:5eb7:1122%9
    IPv4 地址 . . . . . : 192.168.100.32
    子网掩码 . . . . . : 255.255.255.0
    默认网关 . . . . . : fe80::1%9
                           192.168.100.1

C:\Users\ASUS>
```

For MacOS and Linux, open the terminal and input 'ifconfig' to find your WLAN IP address.

Remember this IP address for the following testing!

(4) Install the application with same steps in user part (1) & (2) *(if you test with emulator we introduced in the following part, launch this application in 5556 device)*, then click on 'Admin' to create the emergency center. Press 'FRESH' to fresh the emergency information. Click on the message to read the details of emergency and provide further human services.



USER PART

As a Product Customer You Need to ...

(1) Install the application in your Android device.

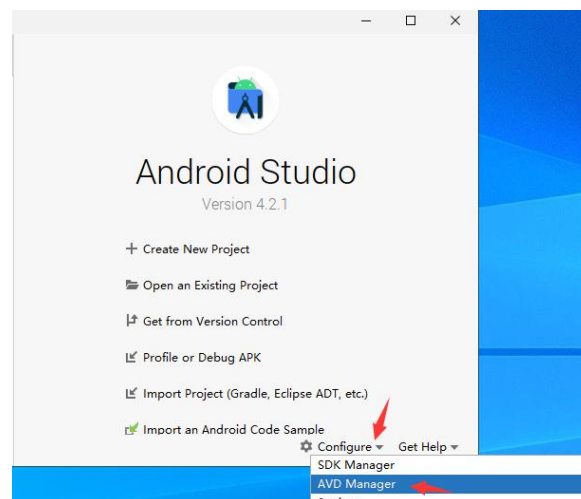
1) Download the APK file (safemeet 1.3.2.apk) from

<https://drive.google.com/file/d/1EnE0FPpI36qmEyardw2ASnlz7wsZQUBr/view?usp=sharing>

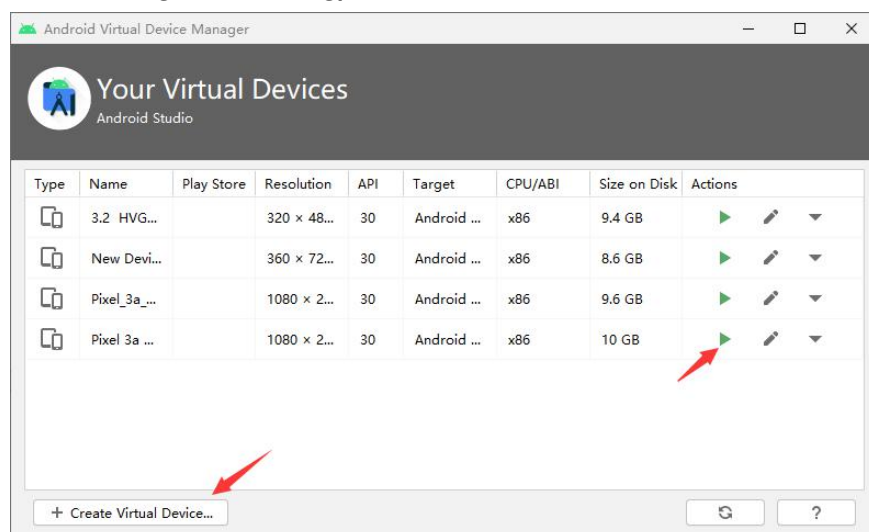
2) Install it into your Android device and run it. ***Your device should use API 21 at least to avoid some unnecessary bugs.***

**** 2) install it into your Android emulator and run it. (We recommend you test in this way.) Download Android Studio and install it in your laptop or PC***

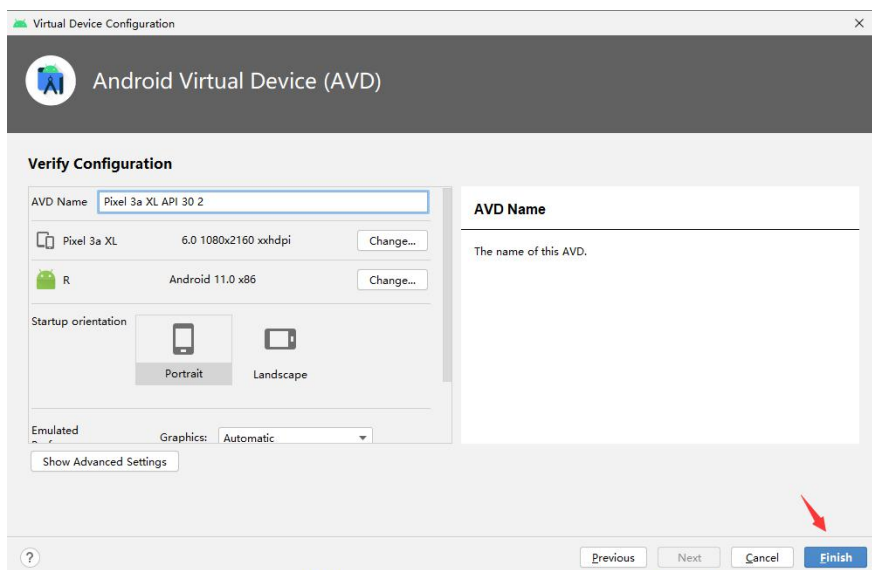
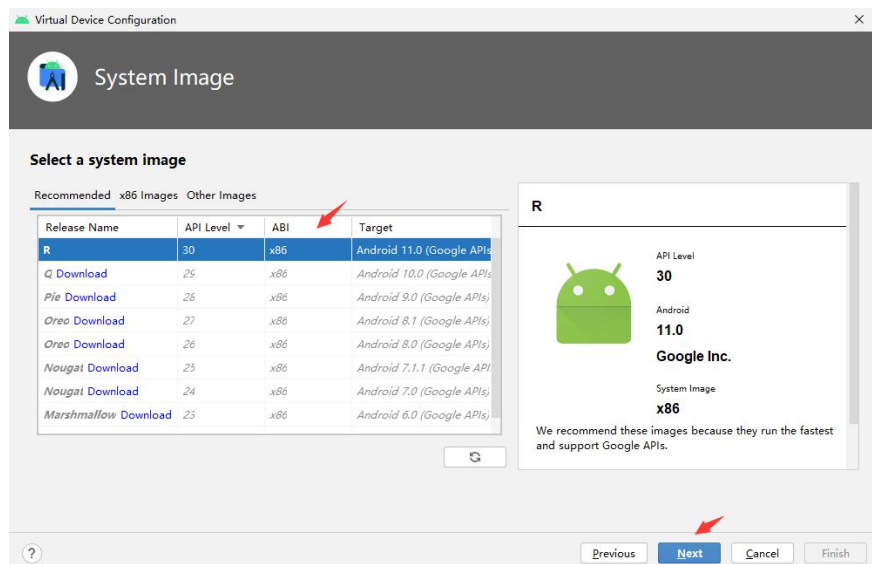
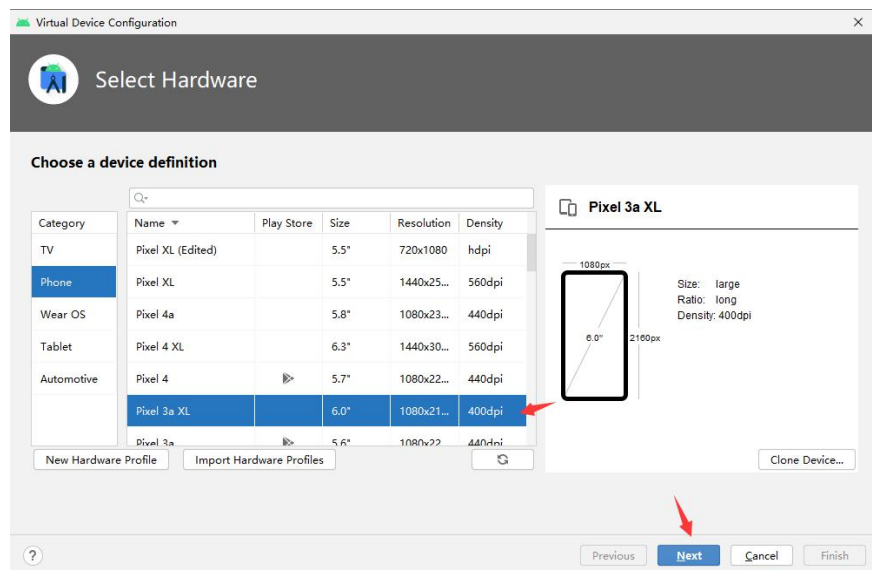
(<https://developer.android.com/studio?gclid=EAlaIQobChMlia7RuamS8QIVjAkrCh1plwVuEAAAYASAAEgJHkfD BwE&gclsrc=aw.ds>). Run Android Studio and select 'AVD Manager' in 'Configure'.



Create the device with default setting and run them one by one (Create at least 3 devices in AVD Manager for testing).

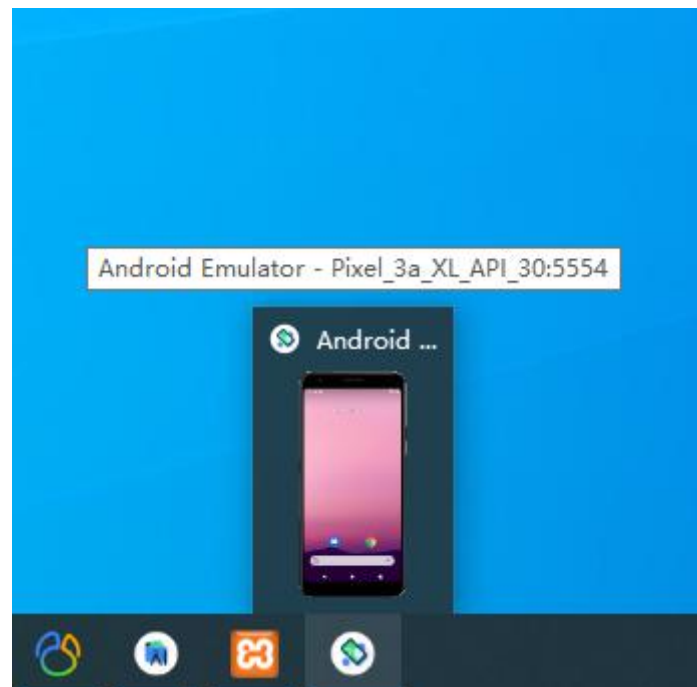


An easy way to create 3 devices is doing the following steps 3 times.

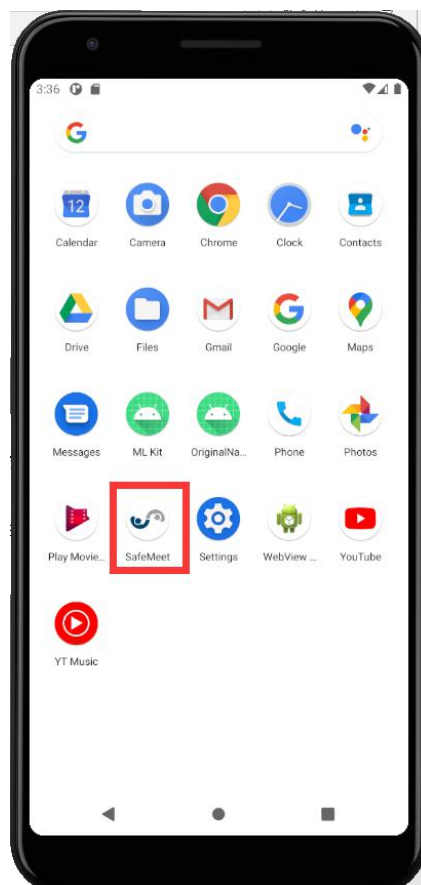


Check the number of device (5554 in the following image). Drag and drop the

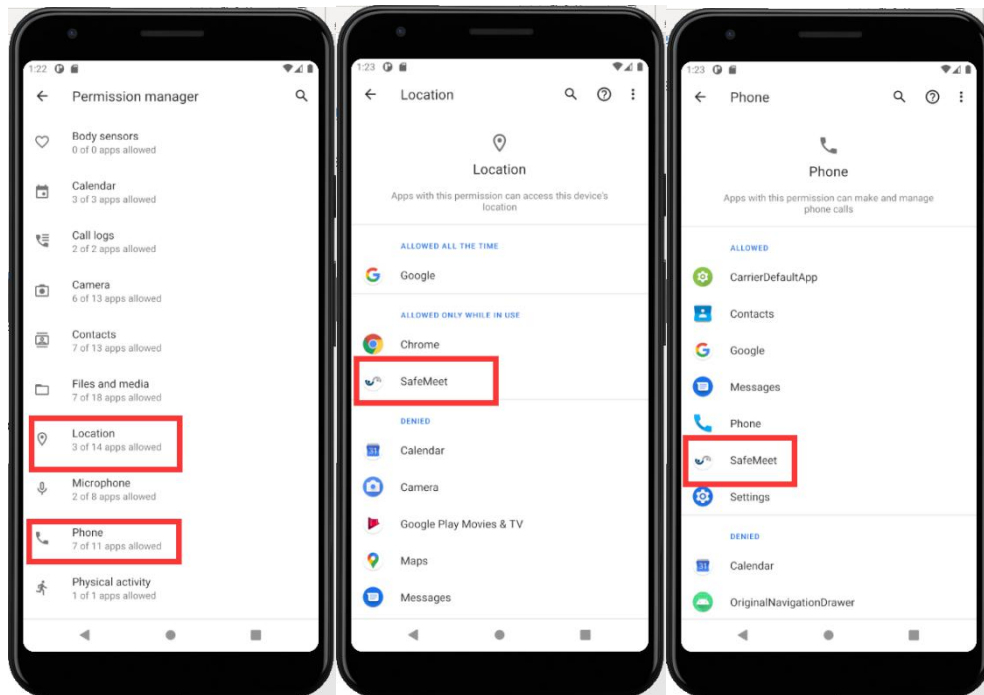
safemeet 1.3.2.apk into the emulator to install it. Launch another two (just click on the launch button in AVD Manager) in turn to get 5556 and 5558. If you can only launch total two devices, please login as 'test3' (just change 'test2' into 'test3') in your device 5554.



Slide from the bottom to top to reach the application menu in emulator and run the application.

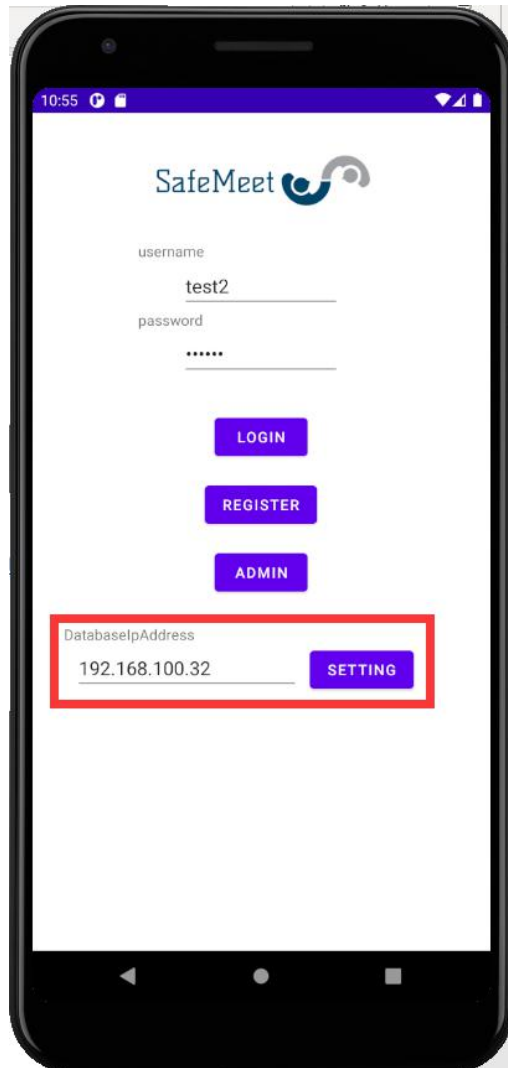


3) Allow the permission of 'Location' and 'Phone' in Setting -> Privacy -> Permission Manager.



(2) Some necessary function we need to introduce to you before the 3 core functions.

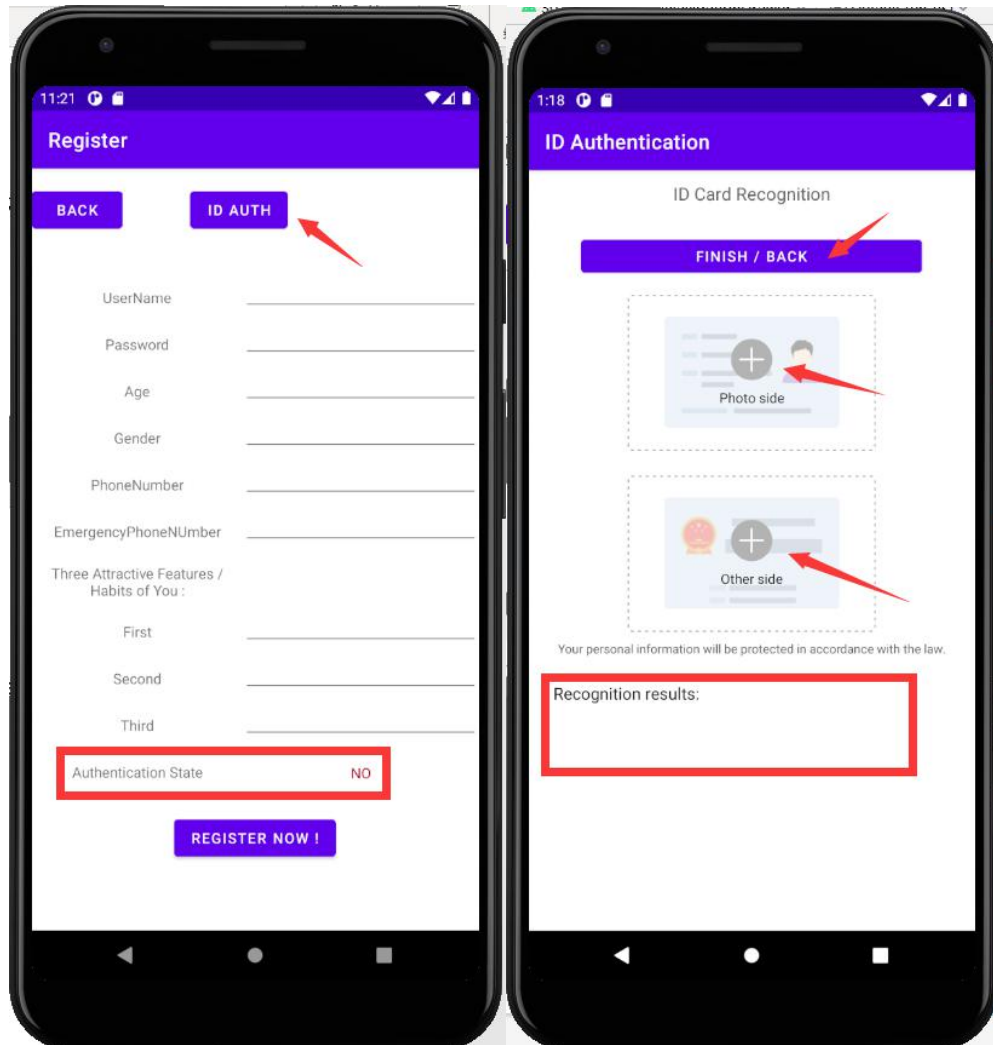
1) Input the IP address and click 'SETTING' in the bottom first to for database connection (***NOT the default IP address!***).



2) Click on 'REGISTER' and input the information in the register page and click 'REGISTER NOW!' to register your own account if you do not wish to use our default account.

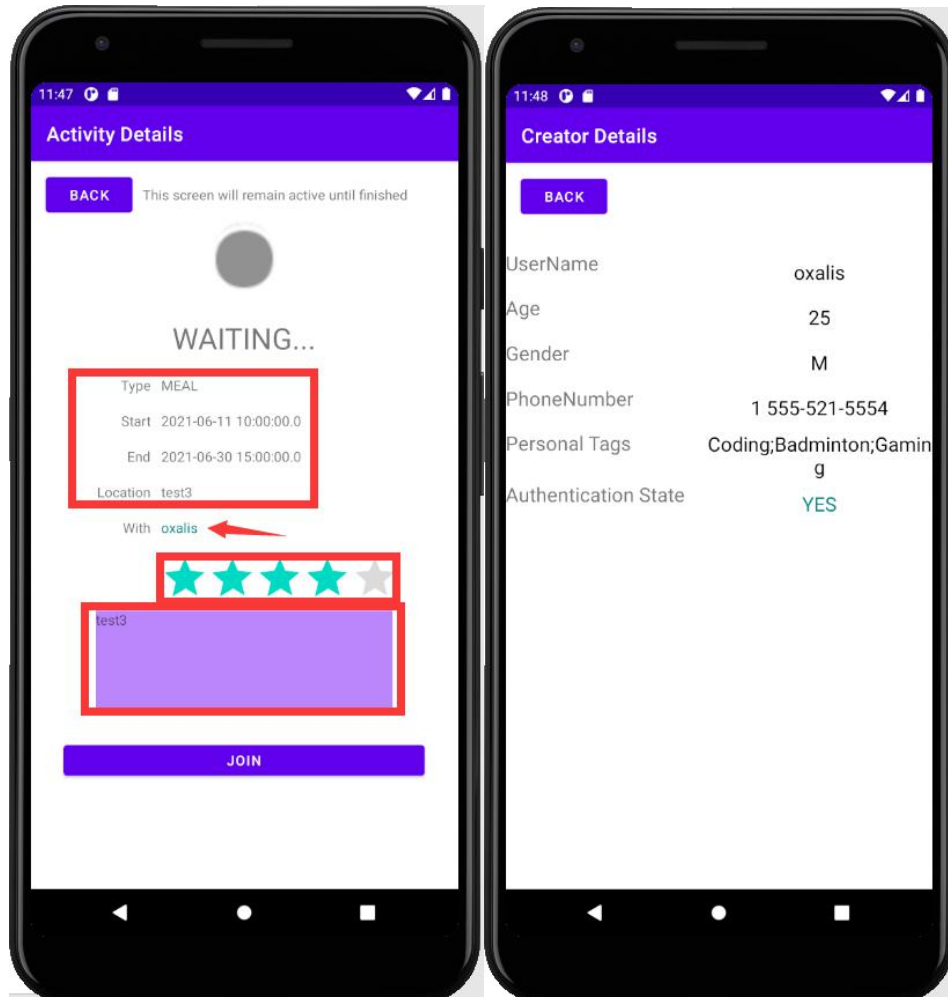
(3) Four core functions in our prototype to prove the feasibility of our solution to release the pains and bring benefits to our target customers.

1) ID authentication before the activity. Click on 'REGISTER' and turn to register page. Click on 'ID AUTH' to jump to the authentication page. Click on the '+' and scan your ID card. If the information is correct, the HUAWEI API will return the 'recognition result' and after you click on 'FINISH / BACK' you can observe the 'authentication state' becomes a green YES.

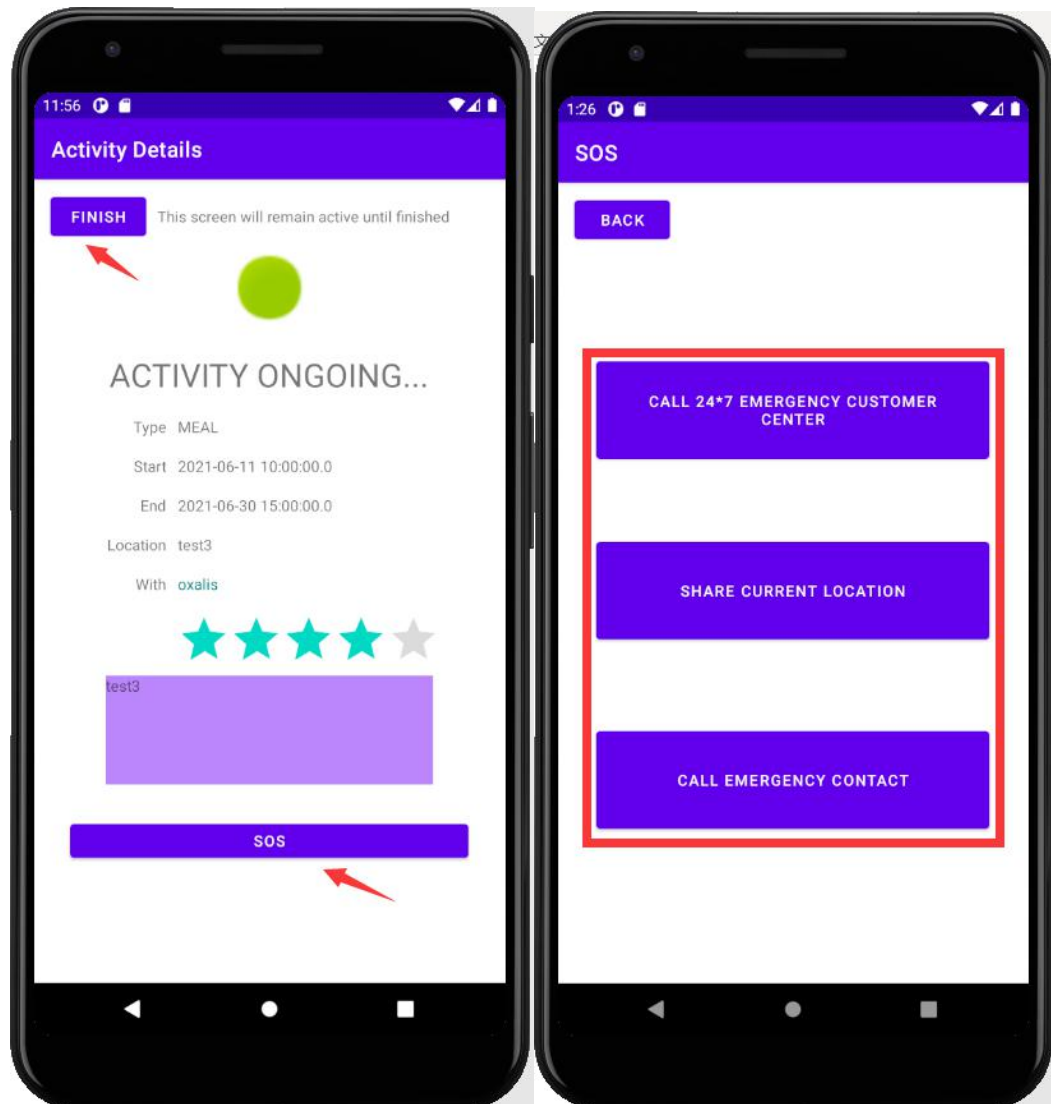


**Due to the security policy, only the real ID card can be recognized, please check this function with video made by Yi Zhang in a real Android device (<https://drive.google.com/file/d/1eqHTyyG836B9PoiBUN8tTqAJymHcnbPq/view?usp=sharing>).*

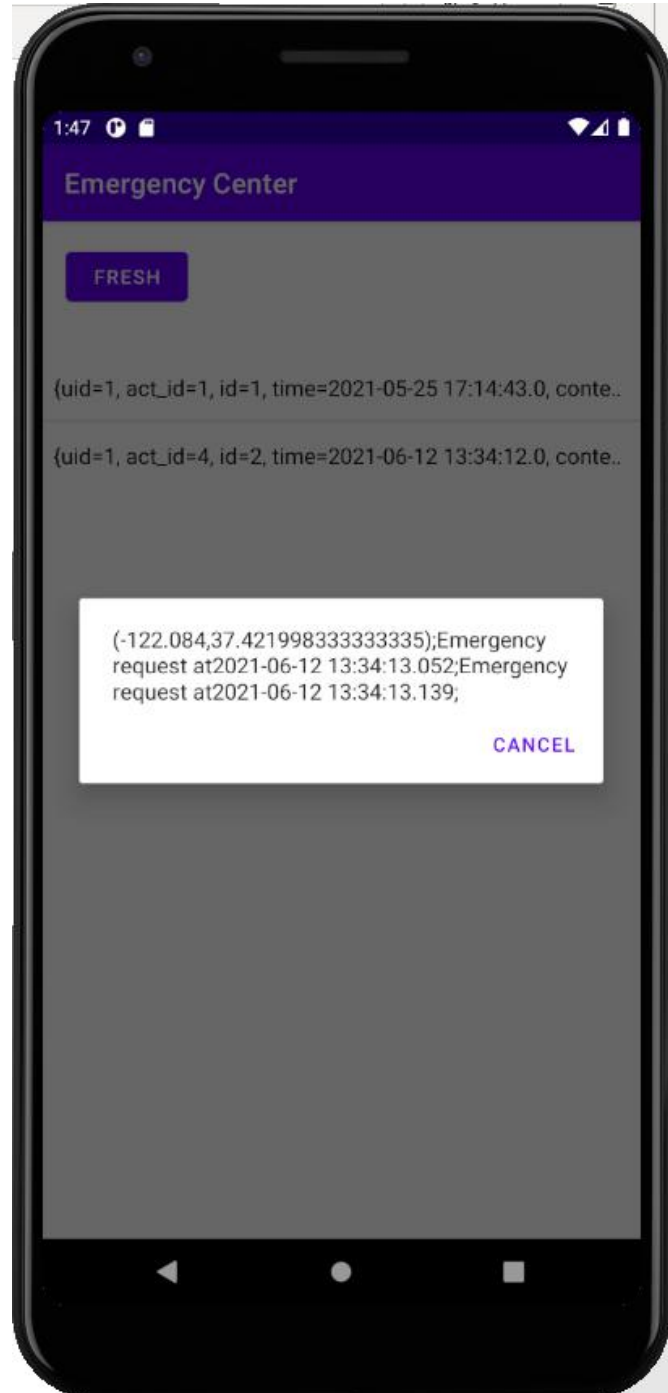
2) Check the details before activity. The 'Activity Details' page (after you login, you can choose the type of activity and choose any created activities to reach this page) will show you the details about the activity (the purple area will show the extra information written by creator) and the rating / authentication information about the creator. Click on the name of creator (oxalis in this case) to find more information about the creator.



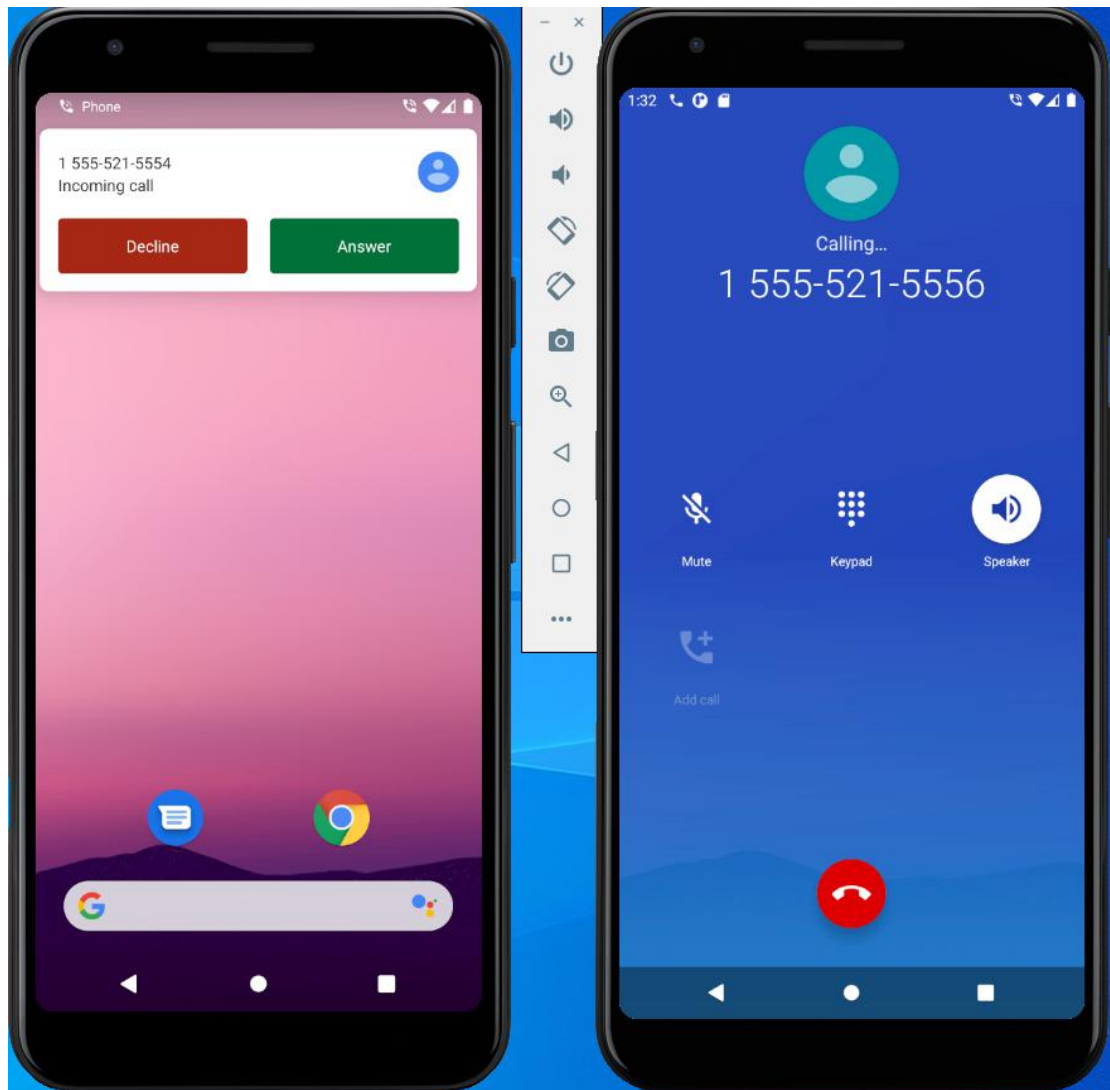
3) Emergency Supports during the activity. If you wish to join the activity, click on 'JOIN' and the interface changes to the 'ONGOING' mode. During the activity, if you feel unsafe, click on the emergency buttons and active the emergency services.



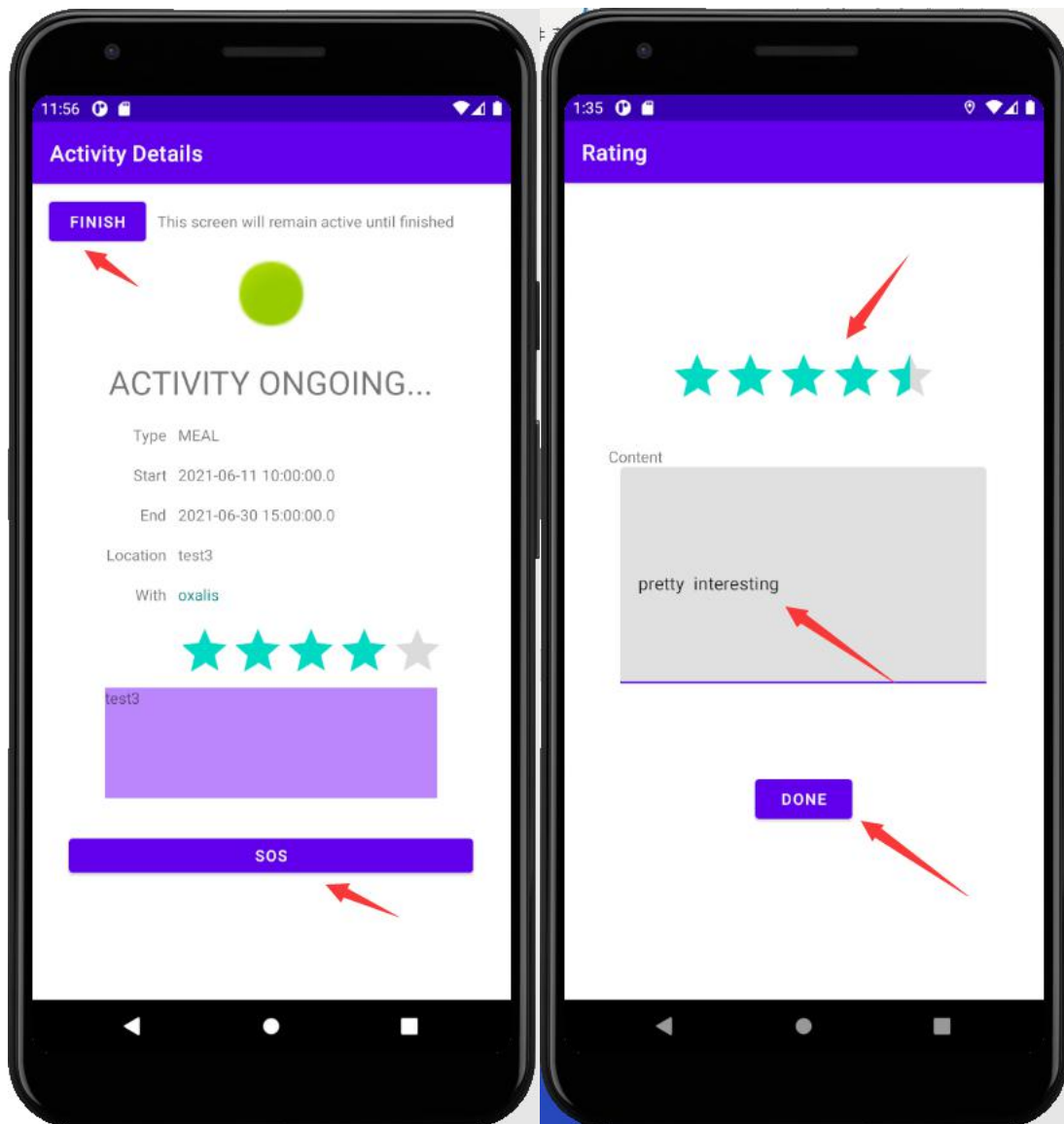
1. Emergency Center & Location Sharing: press on 'CALL 24*7 EMERGENCY CUSTOMER CENTER' will send an alert message to the emergency center provided by the service provider. Press on 'SHARE CURRENT LOCATION' will send your current location to the emergency center. Both can be detected by the service provider and provide extra human services. *(In emulator environment, you can check them in device 5556.)*



2. Emergency Contact: click on 'CALL EMERGENCY CONTACT' will call the emergency call you set when you register the account. The following image shows the emergency contact in emulator environment.

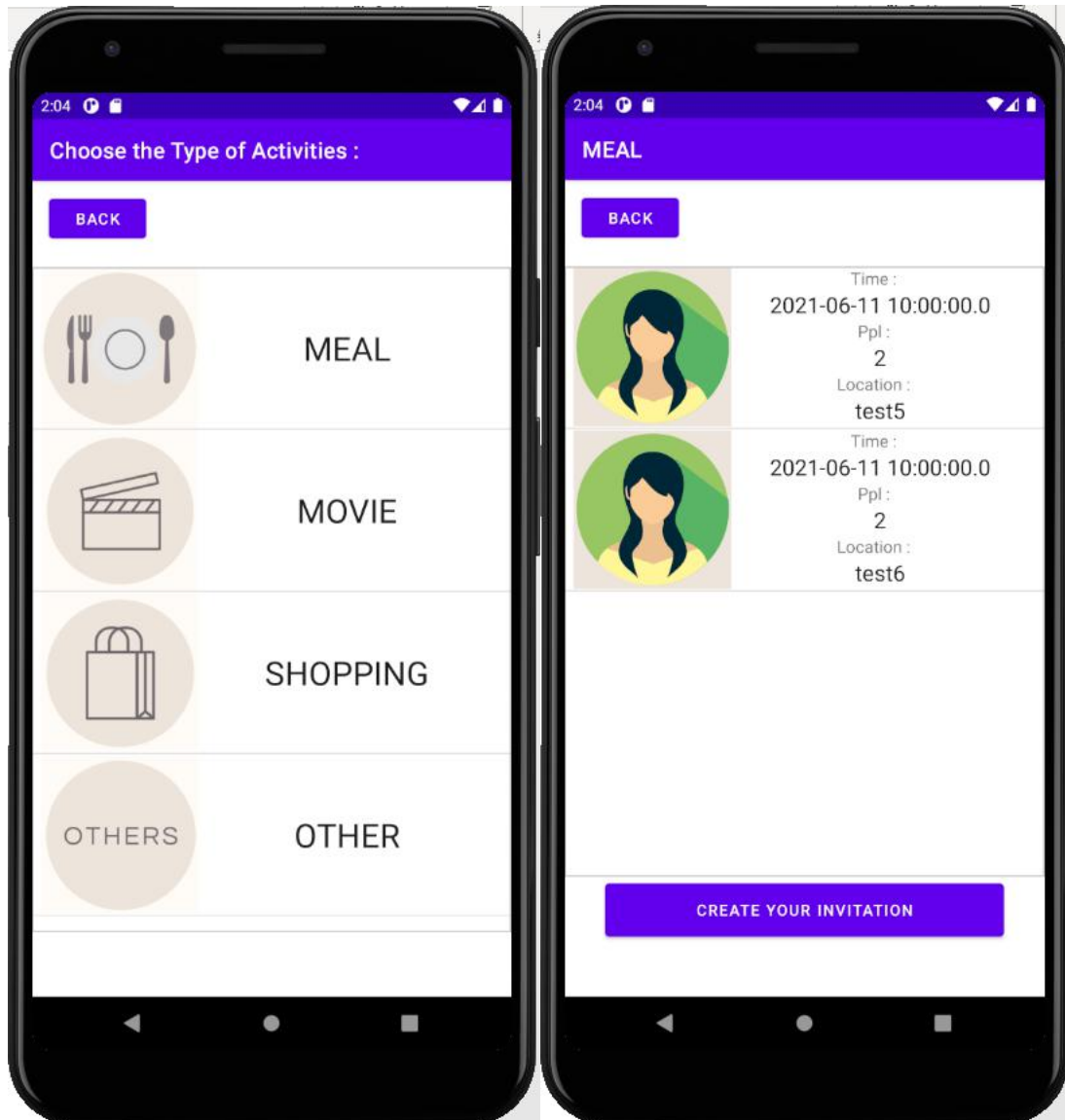


4) Rating and Evaluation to benefit other customers. If the activity is finished, click on the 'FINISH' and jump to the 'Rating' page. Mark the creator and add some comments to this activity. Press 'DONE' to finish your evaluation and application will jump back to the activity type page to let you begin a new journey.



(4) Other basic functions to complete the application.

1) Search your favorite activity. After login, you can choose the type of activities and find some activities under this classification. You can find some general information about the activities and click on it to jump to 'Activity Details' page [step-(3)-2) shows the interface] and get more information and join it.



2) Click on 'CREATE YOUR INVITATION' can jump to the creating page to create your own activity. Fill the information then you can create it.

The image displays two smartphone screens side-by-side, showing a mobile application interface for creating activities.

Left Screen: 'Create Your Own Activity :'

- Header: **Create Your Own Activity :**
- Buttons: **BACK** (purple)
- Form Fields:
 - Type: Meal
 - Ppl: 2
 - Start: 2021-6-12 10:00:00
 - End: 2021-12-31 20:00:00
 - Location: test location
- Section: **Details**
- Placeholder: A gray box containing the text: "Here are some test information in details area."
- Button: **CREATE** (purple)

Right Screen: 'MEAL'

- Header: **MEAL**
- Buttons: **BACK** (purple)
- Table of Activities:

Avatar	Time	Ppl	Location
	2021-06-11 10:00:00.0	2	test5
	2021-06-11 10:00:00.0	2	test6
	2021-06-12 10:00:00.0	2	test location

Button: **CREATE YOUR INVITATION** (purple)