

실시간 시한성 메시지 교환 채팅 App

Contents

01. Fade Out

02. App UI

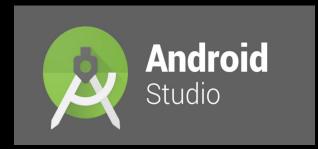
03. App 기능 설명

04. 애로 사항



'실시간 시한성 메시지 교환 채팅 App'

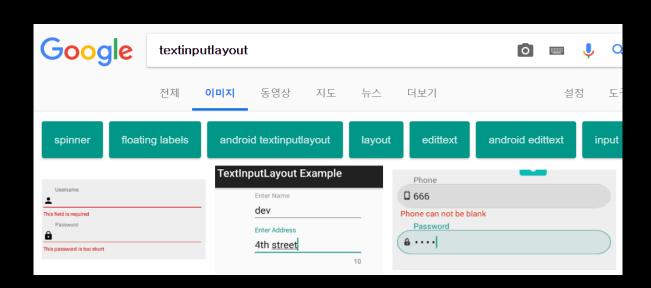




//상태바 안보이게 전체화면으로(회원가입 및 로그인 화면에서)
getWindow().setFlags(WindowManager.LayoutParams.FLAG_FULLSCREEN,
WindowManager.LayoutParams.FLAG_FULLSCREEN);



메인 화면



<android.support.design.widget.TextInputLayout
 android:layout_width="match_parent"
 android:layout_height="wrap_content">

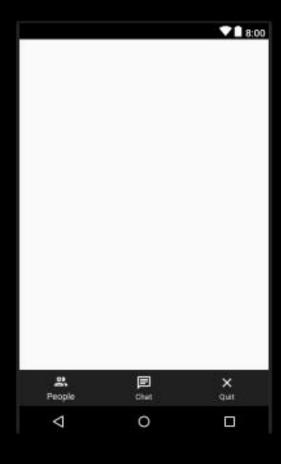


로그인 화면



회원가입 화면

기본 메뉴 화면

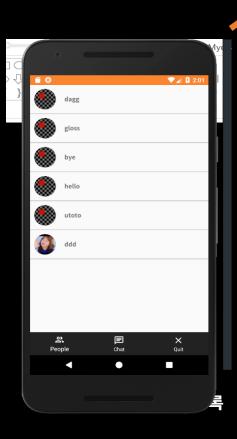


```
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
   <item
       android:id="@+id/action_people"
       android:icon="@drawable/ic_people_black_24"
        android:title="People"
        android:fontFamily="@font/notosans bold"/>
   <item
        android:id="@+id/action_chat"
        android:icon="@drawable/ic_chat_black_24"
       android:fontFamily="@font/notosans bold"/>
   <item
       android:id="@+id/action quit"
       android:icon="@drawable/ic_quit_black_24"
       android:title="Quit"
       android:fontFamily="@font/notosans_bold"/>
```

```
<android.support.design.widget.BottomNavigationView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:id="@+id/mainActivity_bottomNavigationView"
    android:layout_alignParentBottom="true"
    app:itemBackground="@color/common_google_signin_btn_text_light_pressed"
    app:itemTextColor="@android:color/white"
    app:itemIconTint="@android:color/white"
    app:menu="@menu/bottom_navigation_main"/>
```



채팅 메시지 출력 화면

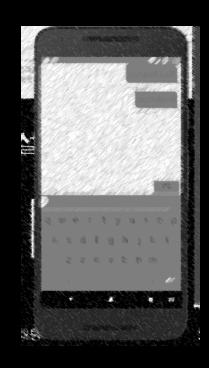


친구 목록 화면





Resizable
Bitmaps
(9-Patch files)



사라지는 메시지 채팅 기능

```
### Comments ** C
```

fadeoutsubstudy

chatrooms

-LDigh0V58uuHYk88QNs

- LDilAN4DUZkF2ITvimv

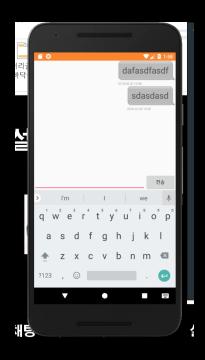
-LDimZbzR_ENIaOzRnNd

comments

-LDin7SXJxQyQ22IuAqY chatRoomUid

users

users



기본적인 채팅 기능

```
//내가 보낸 메시지 출력
if (comments.get(position).uid.equals(uid)) //현재 계정과 DB의 메시지를 상대방에게 보낸 계정이 동일하면
{

messageViewHolder.textView_message.setText(comments.get(position).message); //메시지 내용

messageViewHolder.textView_message.setBackgroundResource(R.drawable.rightbubble); //메시지 버블

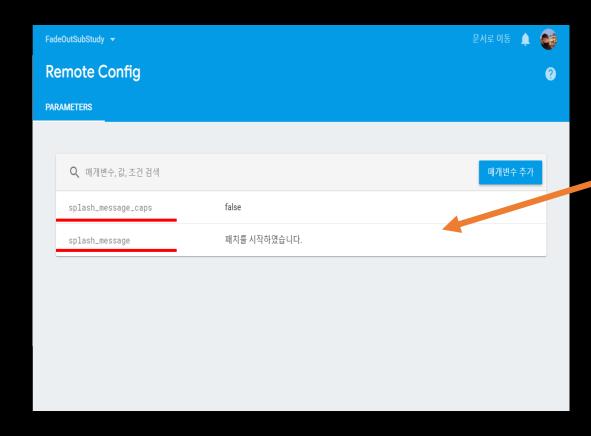
messageViewHolder.linearLayout_destination.setVisibility(View.INVISIBLE); //내가 독할때는 상대방 메시지 버블 감추기

messageViewHolder.linearlayout_main.setGravity(Gravity.RIGHT); 7/재팅 오른쪽 정렬(default는 왼쪽)
```

```
FirebaseAuth.getInstance()
        .createUserWithEmailAndPassword(email.getText().toString(), password.getText().toString())
        .addOnCompleteListener( activity: SignUpActivity.this,
                        final String uid = task.getResult().getUser().getUid(); //uid값(계정의 구분 값)
                        FirebaseStorage.getInstance().getReference().child("userImages") //프로필 이미지
                                .child(uid).putFile(imageUri)
                                .addOnCompleteListener((task) → {
                                        String imageUrl = task.getResult().getDownloadUrl().toString();
                                        UserModel userModel = new UserModel();
                                        userModel.userName = name.getText().toString();
                                        userModel.profileImageUrl = imageUrl;
                                        userModel.uid = FirebaseAuth.getInstance().getCurrentUser().getUid();
                                       FirebaseDatabase.getInstance().getReference().child("users")
                                                .child(uid).setValue(userModel);
                                       SignUpActivity.this.finish();
```



회원 가입 및 로그인 기능



```
<?xml version="1.0" encoding="utf-8"?>
<defaultsMap> <!-- Firebase Console의 원격을 이용해 변경할 파라미터 관리-->
                      <entry>
                                             <key>splash_background</key> <!--splash 배경색 지정-->
                                             <value>#FFFB8530</value>
                      </entry>
                       <entry>
                                             <<ev>splash_message_caps</exerverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverselverse
                                             <value>false</value>
                      </entry>
                      <entry>
                                               <kev>splash_message</kev> <!--메시지 내용 관리-->
                                            <value>서버 점검 중입니다.</value>
                     </entry>
</defaultsMap>
```

원격 제어 기능

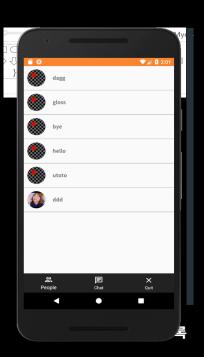
```
private final int EDITTEXT_LENGTH = 20; //입력 길이 제한(실시간으로 사라지는 채팅들의 가독성을 위해)
editText.setFilters(new InputFilter[]{
    new InputFilter.LengthFilter(EDITTEXT_LENGTH)//입력 길이 수 제한
});
```



채팅 입력 글자 수 제한

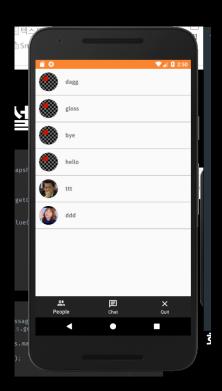
```
//서버에서 넘어온 데이터
@Override
public void onDataChange(DataSnapshot dataSnapshot) {
    //데이터 쌓기
    userModels.clear(); //누적되는 데이터 삭제

    for(DataSnapshot snapshot :dataSnapshot.getChildren())
    {
        //본인의 계정을 친구목록에서 지우기
        UserModel userModel = snapshot.getValue(UserModel.class);
        if(userModel.uid.equals(myUid))
            continue;
        userModels.add(userModel);
    }
    //새로고침(데이터 쌓은 걸로 친구 목록 띄우기)
    notifyDataSetChanged();
}
```



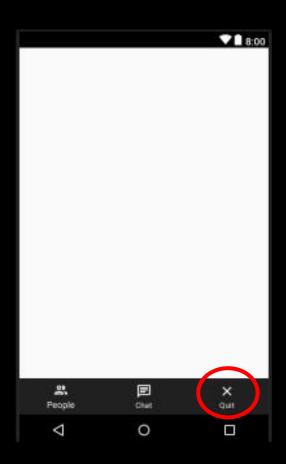
친구 목록화 기능

```
<set xmlns:android="http://schemas.android.com/apk/res/android">
  <!-- 왼쪽에 있는 액티비티 화면이 오른쪽 현재 화면으로 밀려오기 -->
  <translate
        android:duration="300"
        android:fromXDelta="-100%" android:toXDelta="0"
        android:Interpolator="@android.anim/accelerate_decelerate_interpolator"/>
</set>
</set>
```



화면 전환

```
bottomNavigationView.setOnNavigationItemSelectedListener((item) → {
    switch (item.getItemId()){
        case R.id.action_people: //친구 목록 보기
            getFragmentManager().beginTransaction().replace(R.id.ma:
            return true;
        case R.id.action_chat: //채팅 목록 보기
            getFragmentManager().beginTransaction().replace(R.id.ma:
            return true;
        case R.id.action_quit: //앱 종료
            moveTaskToBack( nonRoot: true);
        finish();
}
```



앱 종료(직관화)

04 애로사항

```
dependencies {
    implementation fileTree(dir: 'libs', include: ['*.jar'])
    implementation
    implementation
    implementation
    implementation 'com.android.support:support-media-compat:27.1.0'
    implementation
    implementation
    implementation
    implementation 'com.github.bumptech.glide:glide:4.3.0'
    implementation 'com.firebaseui:firebase-ui-auth:3.3.0'
    implementation 'com.firebaseui:firebase-ui-database:3.1.0'
    implementation 'com.google.firebase:firebase-auth:12.0.1'
    implementation
    implementation 'com.google.android.gms:play-services-appinvite:12.0.1'
    // firebase
    implementation
    implementation
    implementation
```

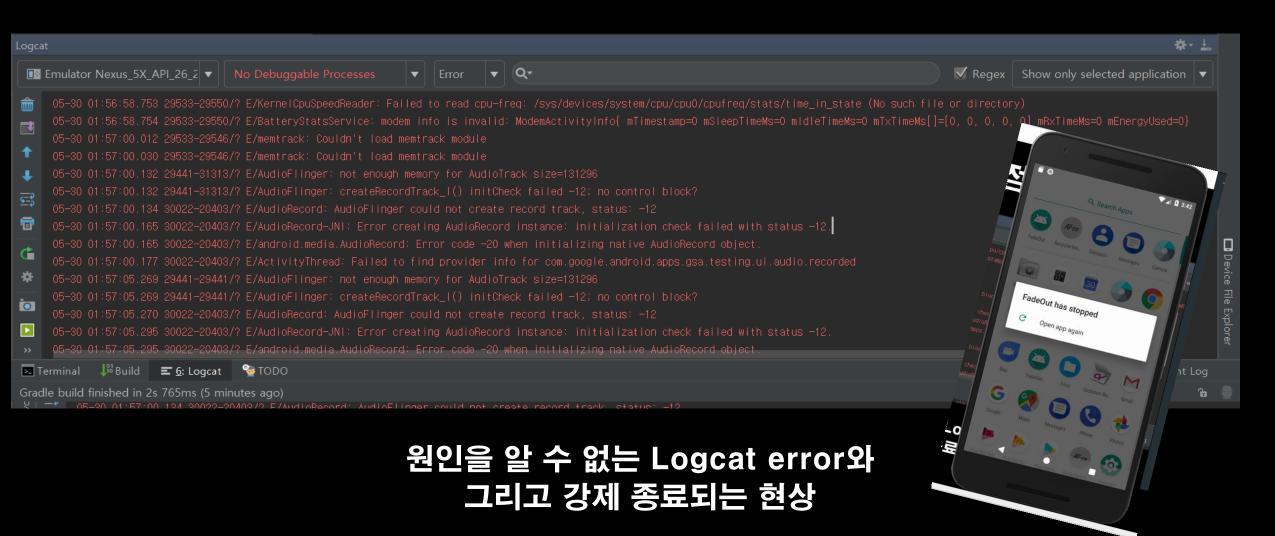
Dependency 호환성 문제

04 애로사항

```
日本語 中央 でにロールルルタ//といわられた。 ではまれ の 可利者 の ではます で でにロールルルタ/といわられた。 ではます で でにロールルタ/といわられた。 ではます で でには、 ではます で でいっといっといっといっといっといっといっといっといっという。 ではます で でいっという でい
                                                                                                                                                                                                                                                                                                                     Firebase
          Database Realtime Database
       덕이터 구착 백압 사용평
```

Firebase 권한(DB, Storage)

04 애로사항



FadeOut

실시간 시한성 메시지 교환 채팅 App

감사합니다. 이어서 시연 진행하겠습니다.