

2015 성신여자대학교 소프트웨어 경진대회

INDEX

1. 팀원 소개
2. 작품 목표, 내용 소개
3. 작품 개발환경 및 일정 소개
4. 코드소개
5. 활용방법 소개 및 시현 영상

팀원 소개

팀장 : 20141189 김혜진(정보시스템)

팀원 : 20141187 김진미(정보시스템)

20141220 정예은(정보시스템)

20141229 주혜원(컴퓨터소프트웨어)

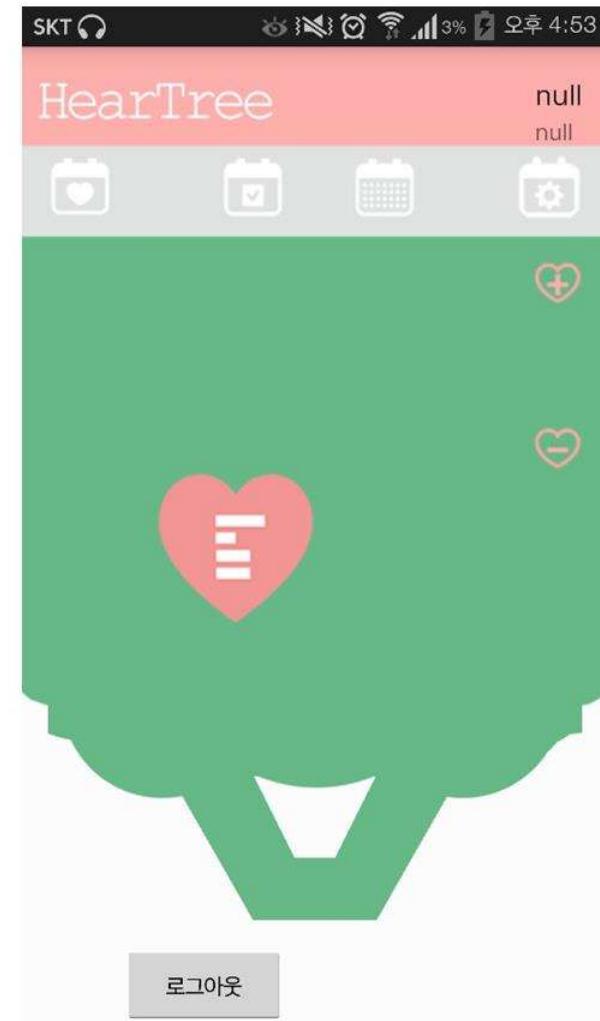
작품 목표

커플들의 추억을 차곡차곡 쌓을 수 있는
나무 컨셉의 커플 어플리케이션.

작품 내용

연애 모든 것을 나무모양에 기록하는

〈하트리〉



작품 내용

연애 모든 것을 나무모양에 기록하는

서로의 일정을 공유하는

〈하트리〉

〈하트캘린더〉



2015년 8월

	일	월	화	수	목	금	토
31	26	27	28	29	30	31	1
32	2	3	4	5	6	7	8
33	9	10	11	12	13	14	15
34	16	17	18	19	20	21	22
35	23	24	25	26	27	28	29
36	30	31	1	2	3	4	5

작품 내용

연애 모든 것을 나무모양에 기록하는

서로의 일정을 공유하는

〈하트리〉

〈하트캘린더〉

기념일을 계산해 알려주는

〈하트얼럿〉



작품 내용

연애 모든 것을 나무모양에 기록하는

서로의 일정을 공유하는

기념일을 계산해 알려주는

커플 정보를 등록하는

〈하트리〉

〈하트캘린더〉

〈하트얼럿〉

〈설정〉



커플 애칭

첫만남

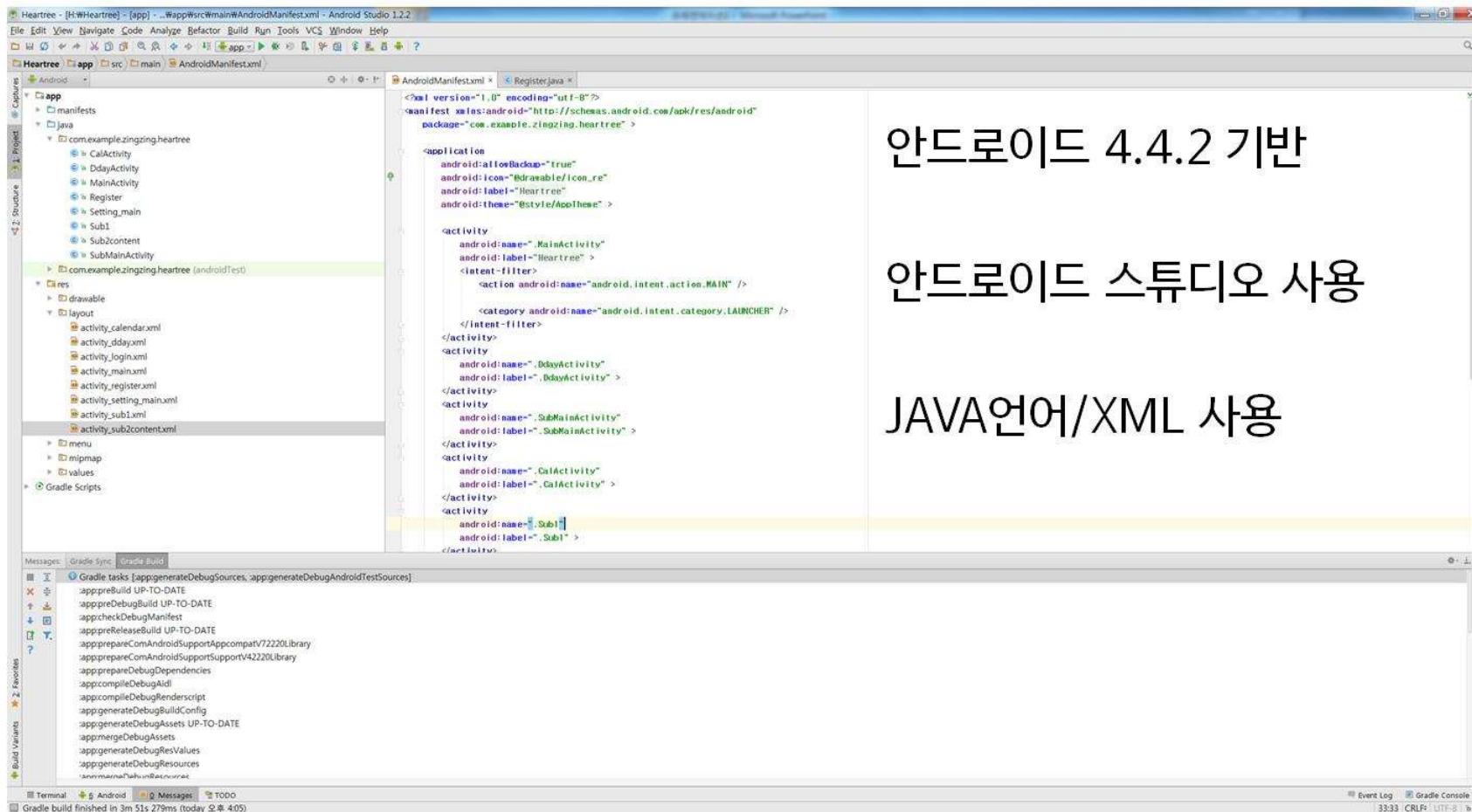


대표 사진

메인으로 돌아가기

커플 정보 등록

개발 환경 소개



안드로이드 4.4.2 기반

안드로이드 스튜디오 사용

JAVA언어/XML 사용

일정 소개

2015.07							2015.08						
일	월	화	수	목	금	토	일	월	화	수	목	금	토
28	29	30	1	2	3	4	26	27	28	29	30	31	1
5	6	7	8	9	10	11	2	3	4	5	6	7	8
첫 회의							첫 번째 중간점검						
12	13	14	15	16 음6.1	17 제현절	18	9	10	11	12	13	14 음7.1	15 광복절
19	20	21	22	23	24	25	16	17	18	19	20	21	22
26	27	28	29	30 음6.15	31	1	23	24	25	26	27	28 음7.15	29
두 번째 회의							두 번째 중간점검 제출						
							30	31	1	2	3	4	5

주요 코드 소개

INDEX

1. D-DAY 부분 소개 (정예은)
2. 로그인 부분 JAVA 소개 (김진미)
3. 메인 액티비티 및 설정 부분 소개(김혜진)
4. 서버 부분 소개-Facebook 오픈소스(주혜원)

D-DAY 부분



```
/* 오늘 날짜 구하기 */
calendar=Calendar.getInstance();
tYear=calendar.get(Calendar.YEAR);
tMonth=calendar.get(Calendar.MONTH);
tDay=calendar.get(Calendar.DAY_OF_MONTH);
```

```
/* 선택 날짜 구하기 */
calendar2=Calendar.getInstance();
dYear=calendar2.get(Calendar.YEAR);
dMonth=calendar2.get(Calendar.MONTH);
dDay=calendar2.get(Calendar.DAY_OF_MONTH);
```

D-DAY 부분



```
btnDate.setOnClickListener  
(new View.OnClickListener()  
{  
    public void onClick(View v)  
    {  
        new DatePickerDialog  
(MainActivity.this,  
        mDateSetListener, dYear, dMonth,  
        dDay).show();  
    }  
});
```

D-DAY 부분



```
DatePickerDialog.OnDateSetListener mDateSetListener  
=new DatePickerDialog.OnDateSetListener() {  
    public void onDateSet(DatePicker view, int year, int  
    monthOfYear,int dayOfMonth) {  
        dYear=year;  
        dMonth=monthOfYear;  
        dDay=dayOfMonth;  
  
        /*초기화*/  
        calendar2.set(Calendar.YEAR,dYear);  
        calendar2.set(Calendar.MONTH, dMonth);  
        calendar2.set(Calendar.DATE, dDay);  
  
        today=calendar.getTimeInMillis()/(24*60*60*1000);  
        dday=calendar2.getTimeInMillis()/(24*60*60*1000);  
  
        result=today-dday+1;//d-day  
  
        resultValue= (int)result;//숫자로 형변환
```

UpdateDday() //함수부름

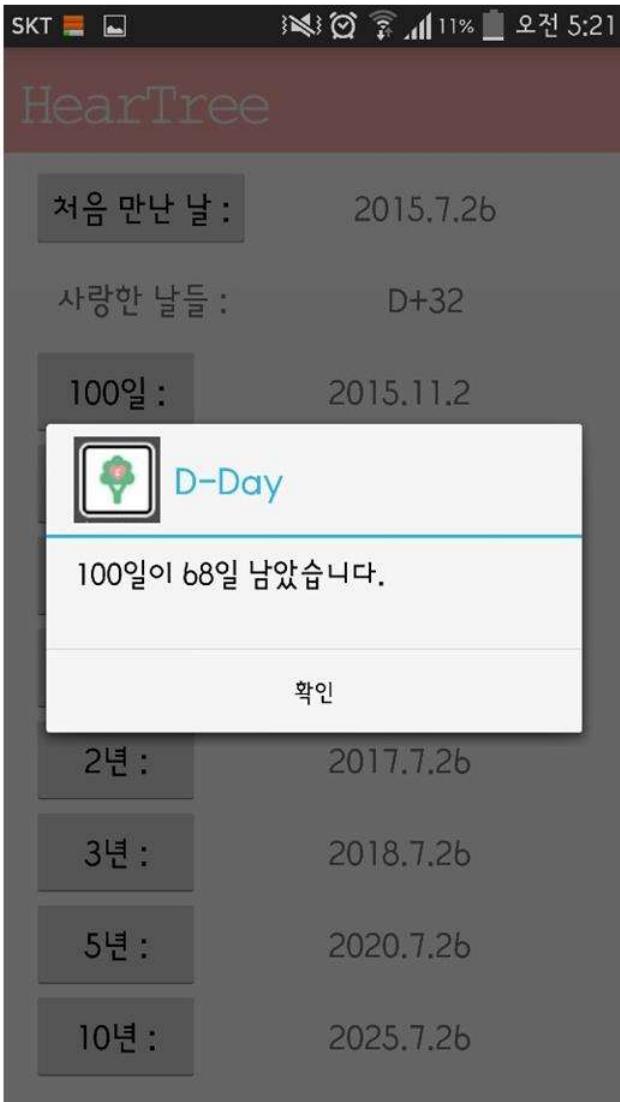
```
    calendar2.add(Calendar.DAY_OF_MONTH, 99);
    D100.setText(String.format("%d.%d.%d", calendar2.get(Calendar.YEAR),
calendar2.get(Calendar.MONTH) + 1, calendar2.get(Calendar.DAY_OF_MONTH)));
...
    calendar2.set(Calendar.YEAR, dYear);
    calendar2.set(Calendar.MONTH, dMonth);
    calendar2.set(Calendar.DATE, dDay);

    calendar2.add(Calendar.YEAR, 1);
    Y1.setText(String.format("%d.%d.%d", calendar2.get(Calendar.YEAR), calendar2.get(Calendar.MONTH)
+ 1, calendar2.get(Calendar.DAY_OF_MONTH)));}
}
```

```
void UpdateDday() {
    textDday.setText(String.format("%d.%d.%d", dYear, dMonth+1, dDay)); //선택 날짜 출력

    if(resultValue > 1) {
        textResult.setText(String.format("D+%d", resultValue));
    }
    else if(resultValue==1) {
        textResult.setText("First Date");
    }
    else
    {
        textResult.setText(String.format("D%d", resultValue));
    }
}
```

D-DAY 부분



/*대화상자 띄우기*/

```
BD100.setOnClickListener(new  
View.OnClickListener() {  
  
public void onClick(View v)  
{AlertDialog.Builder dlg=  
new AlertDialog.Builder  
(MainActivity.this);  
dlg.setTitle("D-Day");  
dlg.setMessage("100일이 "  
+ (-resultValue+100) + "일 남았습니다.");  
dlg.setIcon(R.drawable.hearttree);  
dlg.setPositiveButton("확인", null);  
dlg.show();}  
});  
}
```

로그인 JAVA 부분

```
public void onClick_login(View view) {  
    EditText password = (EditText)  
    findViewById(R.id.Password);  
    String str1 =  
    password.getText().toString();  
    String str2 = "1234"; //비밀번호  
  
    if (str1.equals(str2)) {  
        Intent intent01 = new  
        Intent(getApplicationContext(),  
        SubMainActivity.class);  
        startActivity(intent01);  
    }  
    else {  
        Toast.makeText(MainActivity.this,  
        "잘못입력하셨습니다.",  
        Toast.LENGTH_SHORT).show()  
    }  
}
```



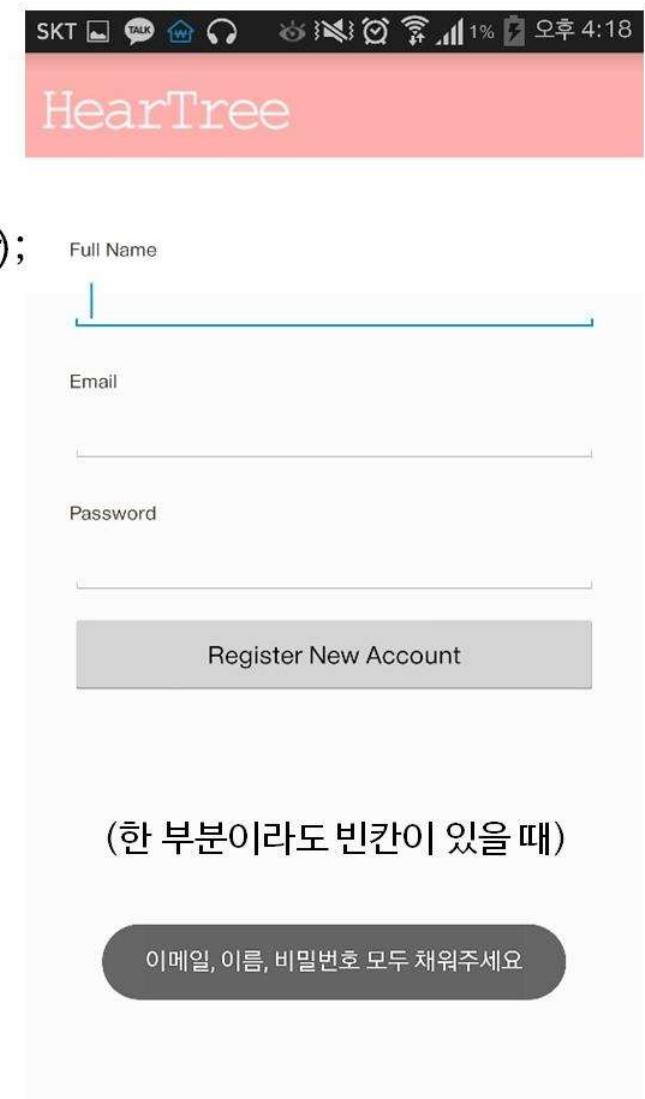
```

final EditText reg_email =
(EditText)findViewById(R.id.reg_email);
final EditText reg_fullname =
(EditText)findViewById(R.id.reg_fullname);
final EditText reg_password =
(EditText)findViewById(R.id.reg_password);
Button btnRegister = (Button)findViewById(R.id.btnRegister);

btnRegister.setOnClickListener(new View.OnClickListener()
{
    public void onClick(View arg0)
    {
        if( reg_email.getText().toString().equals("") ||
            reg_fullname.getText().toString().equals("") ||
            reg_password.getText().toString().equals("") )
        {Toast.makeText(Register.this,
                    "이메일, 이름, 비밀번호 모두 채워주세요",
                    Toast.LENGTH_SHORT).show();
         return;
    }

    finish();
}
});

```



(한 부분이라도 빈칸이 있을 때)

이메일, 이름, 비밀번호 모두 채워주세요

- 1) Intent를 이용한 액티비티 전환
- 2) Intent를 이용한 두 액티비티 간의
데이터이동
- 3) 갤러리로부터 사진 넘겨받아 이미지 뷰에
나타내기

Intent란?

액티비티 등의 전환이 일어날 때 호출이나 메시지를
전달하는 매개체



Activity1

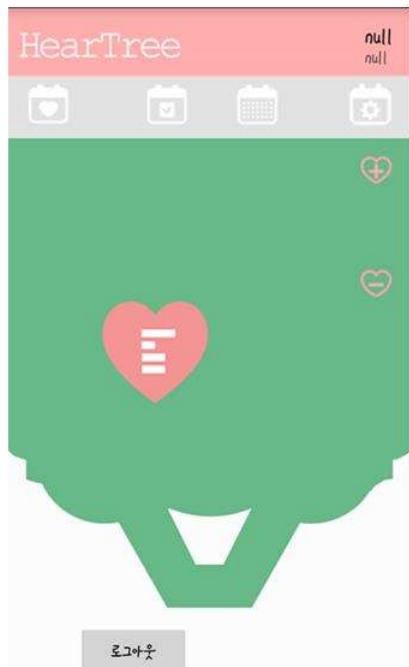


Activity2



Intent를 이용한 액티비티 전환

```
public void onClick_view(View v) {  
    Intent intent01 = new Intent(getApplicationContext(),Sub1.class);  
    startActivity(intent01);  
}
```



SubMainActivity.class



Sub1.class

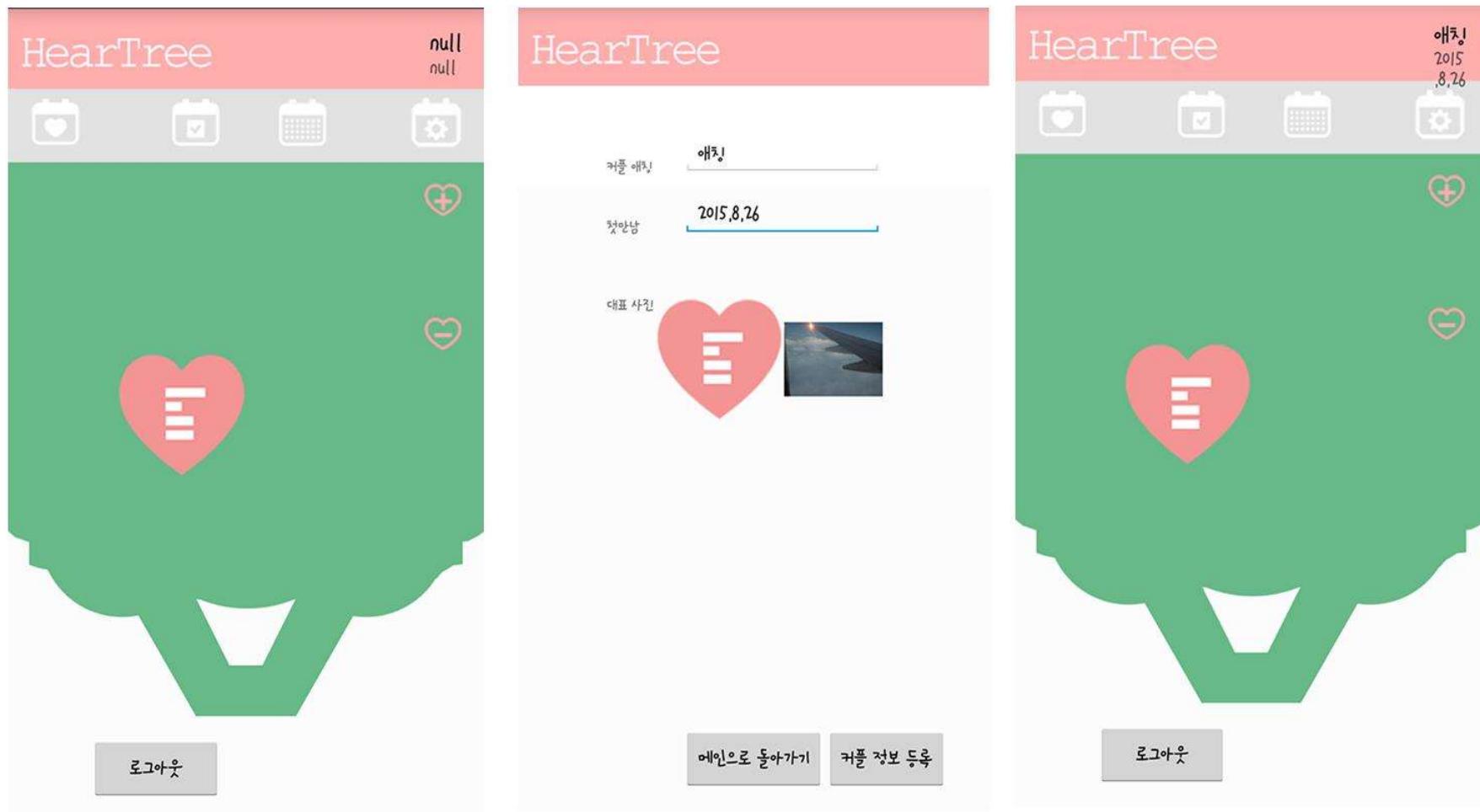
Intent를 이용한 두 액티비티 간 데이터 이동

```
public void onClick_submit(View v) {  
    EditText couplename = (EditText) findViewById(R.id.editText_cn);  
    EditText firstmeet = (EditText) findViewById(R.id.editText_fm);  
  
    String cn = couplename.getText().toString();  
    String fm = firstmeet.getText().toString();  
  
    Intent intent_submit = new Intent(getApplicationContext(), SubMainActivity.class);  
  
    intent_submit.putExtra("입력한 애칭", cn);  
    intent_submit.putExtra("입력한 1일", fm);  
  
    startActivity(intent_submit);  
}
```

Intent를 이용한 두 액티비티 간 데이터 이동

```
protected void onCreate(Bundle savedInstanceState) {  
    super.onCreate(savedInstanceState);  
    setContentView(R.layout.activity_main);  
  
    //애칭과 첫만남 가져오기  
    TextView textView_cn = (TextView) findViewById(R.id.textView_cn);  
    TextView textView_fm = (TextView) findViewById(R.id.textView_fm);  
  
    Intent intent_submit = getIntent();  
  
    String cn = intent_submit.getStringExtra("입력한 애칭");  
    String fm = intent_submit.getStringExtra("입력한 1일");  
  
    textView_cn.setText(String.valueOf(cn));  
    textView_fm.setText(String.valueOf(fm));  
}
```

Intent를 이용한 두 액티비티 간 데이터 이동



갤러리에서 사진 넘겨받아 이미지 뷰에 나타내기

```
private ImageView imgview;

@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_setting_main);

    imgview = (ImageView) findViewById(R.id.imageView_pic);
    ImageButton imgbtn = (ImageButton) findViewById(R.id.imageButton2);

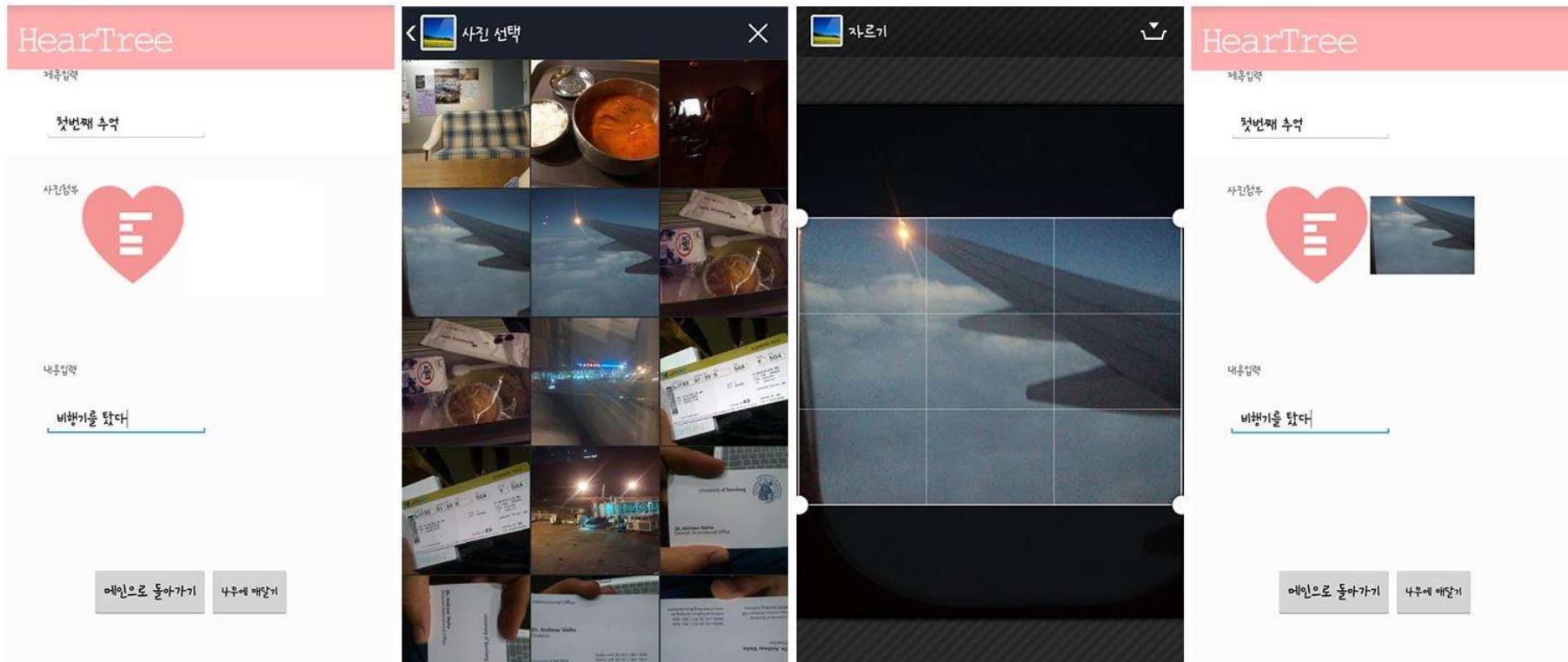
    imgbtn.setOnClickListener(new View.OnClickListener() {
        public void onClick(View v) {
            //갤러리
            Intent intent = new Intent();

            intent.setType("image/*");
            intent.setAction(intent.ACTION_GET_CONTENT);

            //잘라내기
            intent.putExtra("crop", "true");
            intent.putExtra("aspectX", 0);
            intent.putExtra("aspectY", 0);
            intent.putExtra("outputX", 200);
            intent.putExtra("outputY", 150);
            try {
                intent.putExtra("return-data", true);
                startActivityForResult(Intent.createChooser(intent, "Complete"), 0);
            } catch (ActivityNotFoundException e) { }
        }
    });
}

protected void onActivityResult(int requestCode, int resultCode, Intent data) {
    Bundle extras = data.getExtras();
    if (extras != null) {
        Bitmap photo = extras.getParcelable("data");
        imgview.setImageBitmap(photo);
    }
}
```

갤러리에서 사진 넘겨받아 이미지 뷰에 나타내기



Facebook Login For Android

- Facebook-android-sdk-4.5.1 다운로드
- Facebook App ID 생성
- Facebook Hash Key 추가
- LoginButton 만들기
- CallbackManager(MainFragment.java)
- AccessToken(MainFragment.java)
- Profile(MainFragment.java)
- 페이스북 로그인 어플 내 연동

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cebook.com/apps/588630281279549/dashboard/

학자금 | 한국장학재...

Facebook Developers My Apps Products Docs Tools & Support News Q, Search in docs

heartree

Dashboard Settings Status & Review App Details Roles Open Graph Alerts Localize Canvas Payments Audience Network Test Apps Analytics

Dashboard

 **heartree** •
This app is public and available to all users [?]

App ID API Version [?] App Secret
588630281279549 v2.4 Show

Get Started with the Facebook SDK
Use our quick start guides to set up the Facebook SDK for your iOS or Android app, Canvas game or website. Choose a Platform

Secure Your App Settings
Use our app security checkup tool to see how secure your app is and identify potential vulnerabilities. Try It Now

Facebook Login

Active Login Users Trend

Monthly Active Users Weekly Active Users Daily Active Users

3
2

Try It Now

Analytics

Facebook Login

Active Login Users Trend

Monthly Active Users Weekly Active Users Daily Active Users

3
2

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Products

Docs

Tools & Support

News

Search in docs

heartree

Dashboard

Settings

Status & Review

App Details

Roles

Open Graph

Alerts

Localize

Canvas Payments

Audience Network

Test Apps

Analytics

Basic

Advanced

Migrations

App ID

App Secret

588630281279549

Show

Display Name

Namespace

heartree

App Domains

Contact Email

joo7875@naver.com

Android

Quick Start

Google Play Package Name

Class Name

com.example.zingzing.heartree

MainActivity

Key Hashes

Amazon Appstore URL (Optional)

Ex. http://www.amazon.com/dp/B004GJDQT8

Single Sign On

Will launch from Android Notifications

NO

+ Add Platform

Delete App

Discard

Save Changes

heartree

Dashboard

Settings

Status & Review

App Details

Roles

Open Graph

Alerts

Localize

Canvas Payments

Audience Network

Test Apps

Analytics

Status

Items in Review



heartree •

Do you want to make this app and all its live features available to the general public?

Submit Items for Approval

Some Facebook integrations require approval before public usage. Before submitting your app for review, please consult our Platform Policy and Review Guidelines.

Approved Items [?]

LOGIN PERMISSIONS

email [?]

Provides access to the person's primary email address. This permission is approved by default.

public_profile [?]

Provides access to a person's basic information, including first name, last name, profile picture, gender and age range. This permission is approved by default.

user_friends [?]

Provides access to a person's list of friends that also use your app. This permission is approved by default.

FBLoginSample x

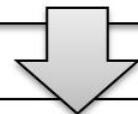
app x

```
1 apply plugin: 'com.android.application'  
2  
3 android {  
4     compileSdkVersion 22  
5     buildToolsVersion "22.0.1"  
6  
7     repositories {  
8         mavenCentral()  
9     }  
10  
11    defaultConfig {  
12        applicationId "com.example.it.fbloginsample"  
13        minSdkVersion 9  
14        targetSdkVersion 22  
15  
16    dependencies {  
17        compile fileTree(dir: 'libs', include: ['*.jar'])  
18        compile 'com.android.support:appcompat-v7:22.2.1'  
19        compile 'com.facebook.android:facebook-android-sdk:4.1.0'  
20    }  
21}
```

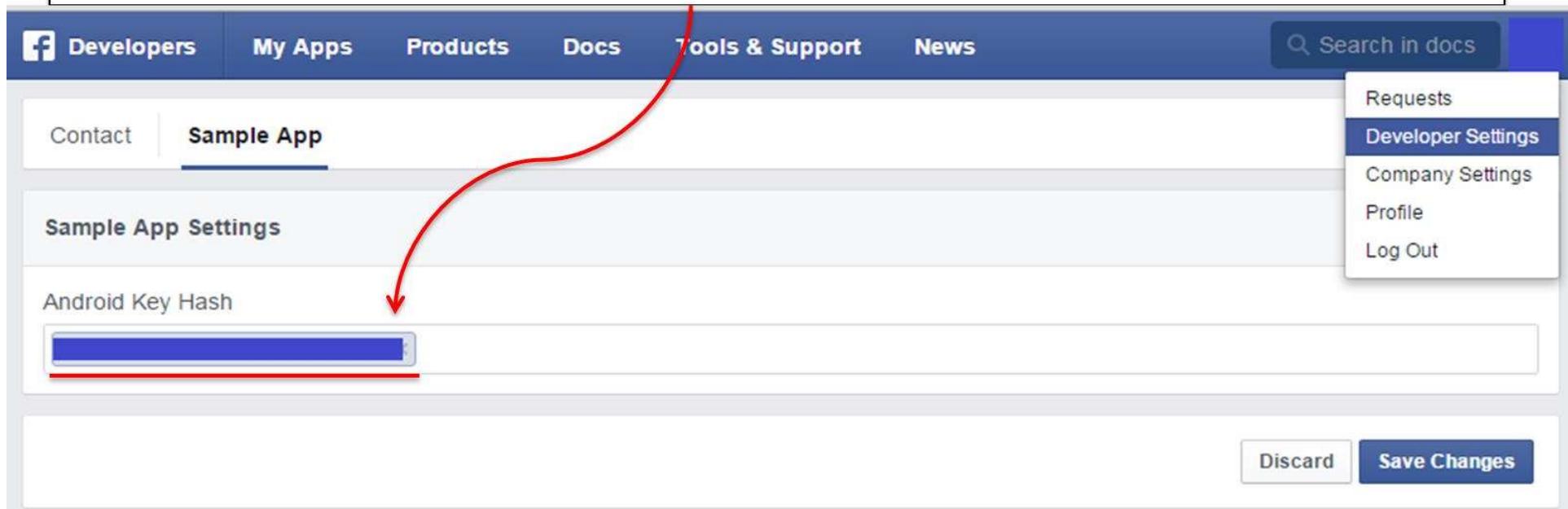
Build.gradle(Module: app)

```
AndroidManifest.xml × MainActivity.java × MainFragment.java × MyApplication.java × strings.xml ×
1 <?xml version="1.0" encoding="utf-8"?>
2 <manifest xmlns:android="http://schemas.android.com/apk/res/android"
3     package="com.example.it.fbloginsample" >
4
5     <uses-permission android:name="android.permission.INTERNET"/>
6
7     <application
8         android:name=".MyApplication"
9         android:allowBackup="true"
10        android:icon="@mipmap/ic_launcher"
11        android:label="@string/app_name"
12        android:theme="@style/AppTheme" >
13         <meta-data
14             android:name="com.facebook.sdk.ApplicationId"
15             android:value="@string/app_id"/>
16         <activity
17             android:name=".MainActivity"
18             android:label="@string/app_name" >
19             <intent-filter>
20                 <action android:name="android.intent.action.MAIN" />
21
22                 <category android:name="android.intent.category.LAUNCHER" />
23             </intent-filter>
24         </activity>
25         <activity
26             android:name="com.facebook.FacebookActivity"
27             android:configChanges="keyboard|keyboardHidden|screenLayout|screenSize|orientation"
28             android:theme="@android:style/Theme.Translucent.NoTitleBar"
29             android:label="@string/app_name" />
30     </application>
31
32 </manifest>
33
```

```
keytool -exportcert -alias androiddebugkey -keystore  
%HOMEPATH%\.android\debug.keystore | openssl sha1  
-binary | openssl base64
```



```
keytool -exportcert -alias androiddebugkey -keystore  
"C:\Users\IT학부\.android\debug.keystore" | "C:\Users  
\\IT학부\Desktop\openssl-0.9.8e_X64\bin\openssl"  
sha1 -binary | "C:\Users\IT학부\Desktop\openssl  
-0.9.8e_X64\bin\openssl" base64
```



Facebook Developers

My Apps Products Docs Tools & Support News

Search in docs

Contact Sample App

Sample App Settings

Android Key Hash

Discard Save Changes

Requests

Developer Settings

Company Settings

Profile

Log Out

heartree

Dashboard



heartree •

This app is public and available to all users [?]

App ID

588630281279549

API Version [?]

v2.4

App Secret

.....

Show

Settings

Status & Review

```
1 <resources>
2     <string name="app_name">FBLoginSample</string>
3     <string name="hello_world">Hello world!</string>
4     <string name="action_settings">Settings</string>
5
6     <string name="app_id">588630281279549</string>
7
8 </resources>
9
```

MainFragment.java

activity_main.xml

fragment_main.xml

```
1 <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
2     xmlns:tools="http://schemas.android.com/tools" android:layout_width="match_parent"
3     android:layout_height="match_parent" android:paddingLeft="16dp"
4     android:paddingRight="16dp"
5     android:paddingTop="16dp"
6     android:paddingBottom="16dp"
7     tools:context=".MainActivityFragment">
8
9     <TextView
10        android:id="@+id/text_details"
11        android:gravity="center"
12        android:layout_above="@+id/login_button"
13        android:layout_width="match_parent"
14        android:layout_height="wrap_content" />
15
16     <com.facebook.login.widget.LoginButton
17         android:id="@+id/login_button"
18         android:layout_width="wrap_content"
19         android:layout_height="wrap_content"
20         android:layout_centerInParent="true"
21         android:layout_marginTop="30dp"
22         android:layout_marginBottom="30dp" />
23
24 </RelativeLayout>
25
```

```
<fragment xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:tools="http://schemas.android.com/tools"  
    android:id="@+id/fragment"  
    android:name="com.example.zingzing.heartree.MainFragment"  
    tools:layout="@layout/fragment_main"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent" />
```

Activity_login.xml

New to Heartree? Register here

facebook으로 로그인

 Log in with Facebook



MainFragment.java

```
Private TextView mTextDetails;  
Private CallbackManager mCallbackManager;
```

```
@Override  
public void onViewCreated(View view, Bundle savedInstanceState) {  
    super.onViewCreated(view, savedInstanceState);  
    LoginButton loginButton = (LoginButton) view.findViewById(R.id.login_button);  
    loginButton.setReadPermissions("user_friends");  
    loginButton.setFragment(this);  
    loginButton.registerCallback(mCallbackManager, mCallback);  
  
    mTextDetails = (TextView) view.findViewById(R.id.text_details);  
}
```

-> Add the Login Button

```
@Override
public void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    FacebookSdk.sdkInitialize(getApplicationContext());
    mCallbackManager = CallbackManager.Factory.create();
    AccessTokenTracker tracker=new AccessTokenTracker() {
        @Override
        protected void onCurrentAccessTokenChanged(AccessToken oldToken, AccessToken newToken) {

        }
    };
    ProfileTracker profileTracker=new ProfileTracker() {
        @Override
        protected void onCurrentProfileChanged(Profile oldProfile, Profile newProfile) {

        }
    };
    tracker.startTracking();
    profileTracker.startTracking();
}
```

-> Register a Callback, About Token

```
private TextView mTextDetails;
private CallbackManager mCallbackManager;

private AccessTokenTracker mTokenTracker;
private ProfileTracker mProfileTracker;
private FacebookCallback<LoginResult> mCallback=new FacebookCallback<LoginResult>() {
    @Override
    public void onSuccess(LoginResult loginResult) {
        AccessToken accessToken = loginResult.getAccessToken();
        Profile profile = Profile.getCurrentProfile();
        if (profile != null) {
            mTextDetails.setText("Welcome " + profile.getName());
        }
    }

    @Override
    public void onCancel() {

    }
}
```

-> Track current Profile



88% 19:56

HearTree

Password

Login

New to Heartree? Register here

facebook으로 로그인

Log in with Facebook



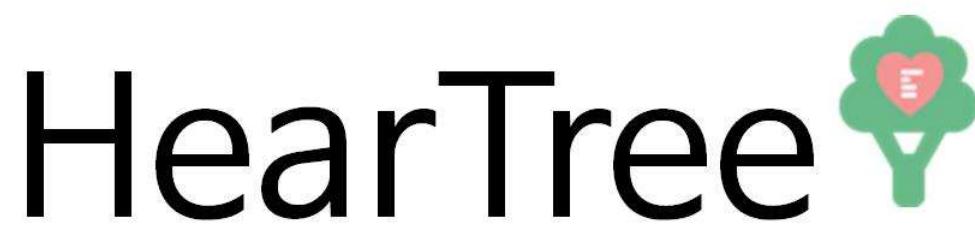
활용 방법

커플간의 소통 원활

일상적인 데이트도 기록

기념일을 확인

시연 영상



THE END