

## Where U at

전반적인 VI 마무리

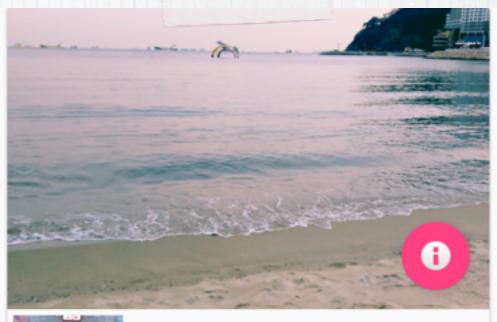
#### 오늘의 Github

\* 실습최종코드: https://github.com/ hyeyag/WhereUAt



## Modify Feedlist

Layout 정리 Code로 List Pata 처리 Scroll 속도 처리





[부산] 송도 해수욕장

27 viewss

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#### Edit Tab Layout

Tab 영역 수정 List 영역과 분리





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## activity\_mainxmi

RelativeLayout을 이용하여 영역 분리





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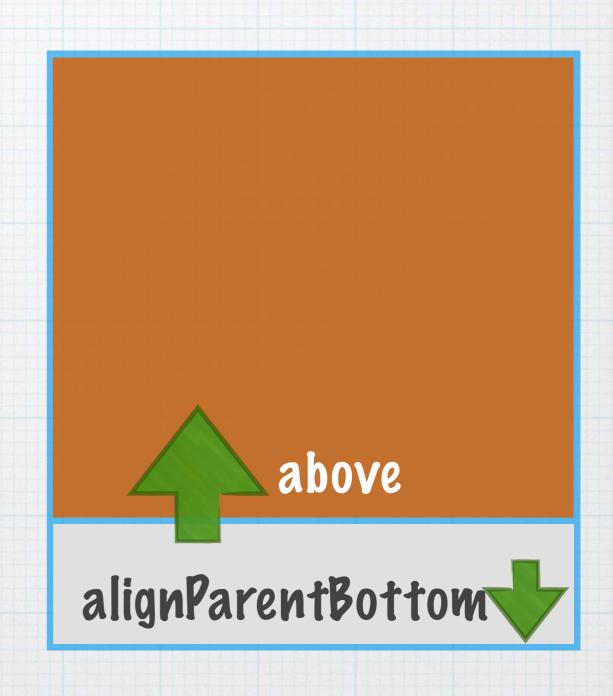
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#### activity\_main.xml

```
<RelativeLayout
            android:layout width="match parent"
            android:layout height="wrap content">
    <com.example.bangchangbae.friendlyapplication.common.HistoryMoveViewPager</pre>
                android:id="@+id/container"
                android:layout width="match parent"
                android:layout height="match parent"
                android:layout above="@+id/tabs"
                app:layout behavior="@string/appbar scrolling view behavior"/>
    <android.support.design.widget.TabLayout</pre>
                android:id="@+id/tabs"
                android:layout width="match parent"
                android:layout_height="wrap_content"
                android:layout alignParentBottom="true"
                app:tabTextAppearance="@style/TabLayoutTextAppearance"
                android:background="#d9d9d9"
    <android.support.design.widget.FloatingActionButton</pre>
                android:id="@+id/fab"
                android:layout width="wrap content"
                android:layout height="wrap content"
                android:layout gravity="end|bottom"
                android:layout margin="@dimen/fab margin"
                android:layout above="@+id/tabs"
                android:layout alignParentRight="true"
                android:src="@android:drawable/ic input add" />
</RelativeLayout>
```

## relative layout 위치 지정

- \* 상대위치지정
- \* layout\_above: Positions the bottom edge of this view above the given anchor view ID.
- \* layout\_alignParentBottom: If true, makes the bottom edge of this view match the bottom edge of the parent.



## tab 영역 스타일 지정

- \* background:배경색지정
- \* tabTextAooearance: tab에 사용될 문자 스타일 값지정

## value/style.xml

## activity\_main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/main content"
    android: layout width="match parent"
    android:layout height="match parent"
    android:fitsSystemWindows="true"
    tools:context="com.example.bangchangbae.friendlyapplication.MainActivity">
        <RelativeLayout
            android:layout width="match parent"
            android:layout height="wrap content">
            <com.example.bangchangbae.friendlyapplication.common.HistoryMoveViewPager</pre>
                android:id="@+id/container"
                android:layout width="match parent"
                android: layout height="match parent"
                android:layout above="@+id/tabs"
                app:layout behavior="@string/appbar scrolling view behavior"/>
            <android.support.design.widget.TabLayout</pre>
                android:id="@+id/tabs"
                android: layout width="match parent"
                android:layout height="wrap content"
                android:layout alignParentBottom="true"
                app:tabTextAppearance="@style/TabLayoutTextAppearance"
                android:background="#d9d9d9"
            <android.support.design.widget.FloatingActionButton</pre>
                android:id="@+id/fab"
                android:layout width="wrap content"
                android:layout height="wrap content"
                android:layout gravity="end|bottom"
                android:layout margin="@dimen/fab margin"
                android:layout above="@+id/tabs"
                android:layout alignParentRight="true"
                android:src="@android:drawable/ic input add" />
        </RelativeLavout>
</android.support.design.widget.CoordinatorLayout>
```

- \* ViewPager에 추가기능
  - \* History Move 기능추가 Stack을 가지고 이동한 index 기억
  - \* Back으로이동시 page change listener 처리

```
public class HistoryMoveViewPager extends ViewPager {
    private Stack<Integer> mHistory = new Stack();
    private int mPreviousItem = -1;
    private List<OnPageChangeListener> mOnPageChangeListenersSaved;
    private OnPageChangeListener mOnPageChangeListenerSaved;

public HistoryMoveViewPager(Context context) {
        super(context);
    }

public HistoryMoveViewPager(Context context, AttributeSet attrs) {
        super(context, attrs);
}
```

```
@Override
public void setCurrentItem(int item) {
    mPreviousItem = item;
    super.setCurrentItem(item);
    Log.d("viewpager steps", "setCurrentItem item : " + item + " previousItem : " + mPreviousItem);
}
@Override
public void setCurrentItem(int item, boolean smoothScroll) {
    mPreviousItem = item;
    super.setCurrentItem(item, smoothScroll);
    Log d("viewpager steps", "setCurrentItem item : " + item + " previousItem : " + mPreviousItem);
}
void move(int item, boolean isSaveHistory){
    if(isSaveHistory) {
        int prevItem = (mPreviousItem > -1) ? mPreviousItem : 0;
        Log.d("viewpager steps", "move item : " + item + " prevItem : " + prevItem);
        mHistory.push(prevItem);
    Log.d("viewpager steps", "move item : " + item + " isSaveHistory : " + isSaveHistory);
    setCurrentItem(item);
```

```
public void Go(int item){
    Log.d("viewpager steps", "Go item : " + item);
    move(item, true);
public boolean Back(){
    Log.d("viewpager steps", "Back history size : " + mHistory.size());
    if(mHistory.size() < 1)</pre>
        return false:
    int preIndex = mHistory.pop();
    String history;
    history = "";
    Log.d("viewpager steps", "preIndex : " + preIndex);
    for(int i=0; i<mHistory.size();i++) {</pre>
        history += mHistory.get(i) + " ";
    Log.d("viewpager steps", "Back history : " + history);
    Log.d("viewpager steps", "Back history size : " + mHistory.size());
    preventOnPageChangeEvent();
    move(preIndex, false);
    restoreOnPageChangeListener();
    Log.d("viewpager steps", "Back history size : " + mHistory.size());
    return true:
```

```
@Deprecated
@Override
public void setOnPageChangeListener(OnPageChangeListener listener) {
    mOnPageChangeListenerSaved = listener;
    super.setOnPageChangeListener(listener);
@Override
public void addOnPageChangeListener(OnPageChangeListener listener) {
    if (mOnPageChangeListenersSaved == null) {
        mOnPageChangeListenersSaved = new ArrayList<>();
    mOnPageChangeListenersSaved.add(listener);
    super.addOnPageChangeListener(listener);
@Override
public void removeOnPageChangeListener(OnPageChangeListener listener) {
   if (mOnPageChangeListenersSaved != null) {
        mOnPageChangeListenersSaved.remove(listener);
    super.removeOnPageChangeListener(listener);
@Override
public void clearOnPageChangeListeners() {
    if (mOnPageChangeListenersSaved != null) {
        mOnPageChangeListenersSaved.clear();
    super.clearOnPageChangeListeners();
```

}

#### Add Float Button

메인사진영역에 float button위치

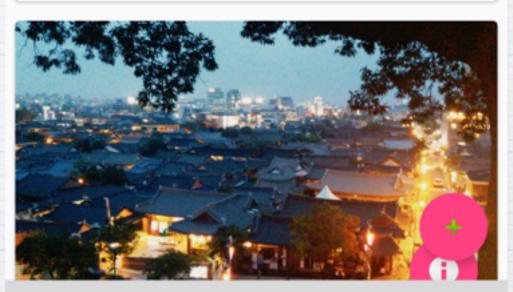




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#### relative layout 위치 지정

\* layout\_alignParent Right: If true, makes the right edge of this view match the right edge of the parent.



```
<RelativeLayout
    android:layout width="match parent"
    android:layout_height="wrap_content">
    < Image View
        android:id="@+id/ivFeedCenter"
        android:layout width="match parent"
        android:layout height="250dp"
        android:scaleType="centerCrop"
        android:layout_weight="1"
        android:contentDescription="content image" />
    <android.support.design.widget.FloatingActionButton</pre>
        android:id="@+id/fab"
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:layout alignBottom="@+id/ivFeedCenter"
        android:layout alignParentRight="true"
        android:layout margin="@dimen/fab margin"
        android:src="@android:drawable/ic dialog info" />
</RelativeLayout>
```

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.CardView xmlns:android="http://schemas.android.com/apk/res/</pre>
android"
    xmlns:card_view="http://schemas.android.com/apk/res-auto"
    android:id="@+id/card_view"
    android:layout width="match parent"
    android:layout height="wrap content"
    android:layout_gravity="center"
    android:layout margin="8dp"
    card_view:cardCornerRadius="4dp">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical">
        <RelativeLayout
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <ImageView
                android:id="@+id/ivFeedCenter"
                android:layout_width="match_parent"
                android:layout height="250dp"
                android:scaleType="centerCrop"
                android:layout_weight="1"
                android:contentDescription="content image" />
            <android.support.design.widget.FloatingActionButton</pre>
                android:id="@+id/fab"
                android:layout_width="wrap_content"
                android:layout height="wrap content"
                android:layout_alignBottom="@+id/ivFeedCenter"
                android:layout alignParentRight="true"
                android:layout_margin="@dimen/fab_margin"
                android:src="@android:drawable/ic_dialog_info" />
        </RelativeLayout>
```

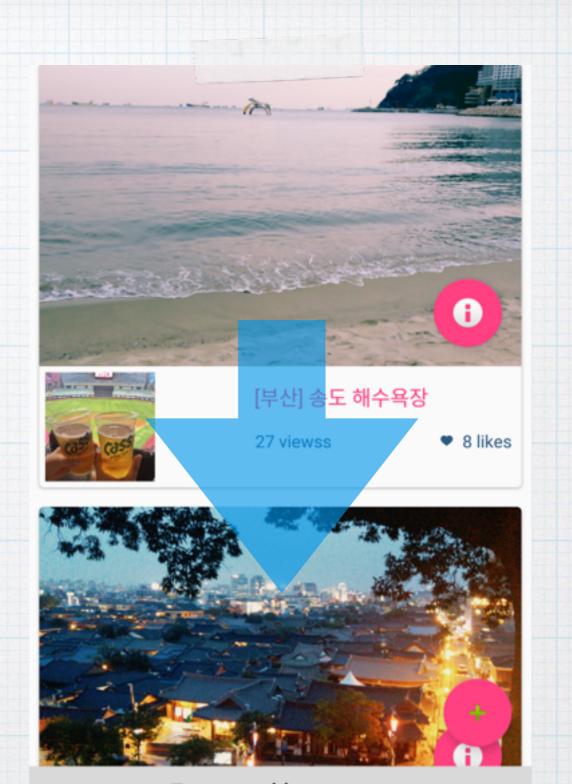
```
<LinearLayout
    android:layout width="match parent"
    android:layout height="wrap content"
    android:orientation="horizontal">
    <ImageView
        android:id="@+id/ivUserProfile"
        android:scaleType="centerCrop"
        android:layout width="90dp"
        android:layout height="90dp"
        android:layout margin="5dp"
        android:contentDescription="photo profile" />
    <LinearLayout
        android:layout width="0dp"
        android:layout height="match parent"
        android:orientation="vertical"
        android:layout weight="1">
        <TextView
            android:id="@+id/ivFeedTitle"
            android:layout_width="match_parent"
            android:layout height="wrap content"
            android:gravity="center"
            android:textSize="17sp"
            android:textColor="@color/colorAccent"
            android:layout weight="1" />
```

```
<LinearLayout
    android:layout width="match parent"
    android:layout height="wrap content"
    android:orientation="vertical"
    android:layout_weight="1">
    <LinearLayout
        android:layout_width="match_parent"
        android:layout height="wrap content"
        android:orientation="horizontal"
        android:baselineAligned="false">
        <LinearLayout
            android:layout width="0dp"
            android:layout height="match parent"
            android:layout weight="1"
            android:gravity="center_vertical|right">
            <TextSwitcher
                android:id="@+id/tsViewCounter"
                android:layout width="wrap content"
                android:layout_height="wrap_content"
                android:layout marginLeft="8dp"
                android:layout marginRight="8dp">
                <TextView
                    android:layout width="wrap content"
                    android:layout_height="wrap_content"
                    android:textColor="@color/text like counter" />
                <TextView
                    android:layout_width="wrap_content"
                    android:layout height="wrap content"
                    android:textColor="@color/text like counter" />
            </TextSwitcher>
        </LinearLayout>
```

```
</LinearLayout>
                        <LinearLayout
                            android:layout width="0dp"
                            android:layout_height="match_parent"
                            android:layout weight="1"
                            android:gravity="center vertical|right">
                            <ImageView
                                android:layout_width="10dp"
                                android:layout height="10dp"
                                android:src="@drawable/ic heart small blue" />
                            <TextSwitcher
                                android:id="@+id/tsLikesCounter"
                                android:layout_width="wrap_content"
                                android:layout height="wrap_content"
                                android:layout marginLeft="8dp"
                                android:layout marginRight="8dp">
                                <TextView
                                    android:layout width="wrap content"
                                    android:layout_height="wrap_content"
                                    android:textColor="@color/text_like_counter" />
                                    android:layout_width="wrap_content"
                                    android:layout height="wrap content"
                                    android:textColor="@color/text like counter" />
                            </TextSwitcher>
                        </LinearLayout>
                    </LinearLayout>
                </LinearLayout>
            </LinearLayout>
        </LinearLayout>
    </LinearLayout>
</android.support.v7.widget.CardView>
```

#### Smooth Scroller

화면에 보여줄이미지가 큰 경우, 프로그램이 죽거 나 많이 느려지게 됨 작은 크기로 디코딩하여 스크롤 속도 개선



#### Bitmapfactory.decodeRes ource

- \* 이미지사이즈확인: inJustPecodeBounds 옵션사용하여 확인
- \* 작은이미지로디코딩:inSampleSize 옵션으로이미지 줄이기

## Util.java

```
public class Util {
    public static int calculateInSampleSize(
            BitmapFactory.Options options, int reqWidth, int reqHeight) {
        regWidth = regWidth > 0 ? regWidth : 1;
        reqHeight = reqHeight > 0 ? reqHeight : 1;
        // Raw height and width of image
       final int height = options.outHeight;
        final int width = options.outWidth;
        int inSampleSize = 1;
       if (height > reqHeight || width > reqWidth) {
           inSampleSize = 2;
            final int halfHeight = height / 2;
            final int halfWidth = width / 2;
           // Calculate the largest inSampleSize value that is a power of 2 and keeps both
           // height and width larger than the requested height and width.
            while ((halfHeight / inSampleSize) >= regHeight
                    || (halfWidth / inSampleSize) >= regWidth) {
                inSampleSize *= 2;
            }
       Log.d("check sampleSize", "inSampleSize : " + inSampleSize);
        return inSampleSize;
   }
```

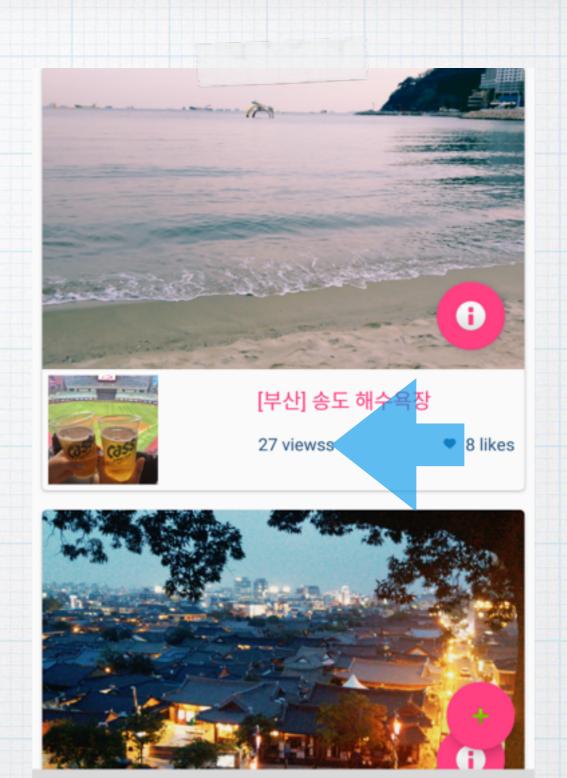
## Util.java

```
public static Bitmap decodeSampledBitmapFromResource(Resources res, int resId,
                                                        int reqWidth, int reqHeight) {
    // First decode with inJustDecodeBounds=true to check dimensions
    final BitmapFactory.Options options = new BitmapFactory.Options();
    options.inJustDecodeBounds = true;
    BitmapFactory.decodeResource(res, resId, options);
    int requestWidth = reqWidth > 0 ? reqWidth : 0;
    int requestHeight = reqHeight > 0 ? reqHeight : 0;
    int originWidth = options.outWidth;
    int originHeight = options.outHeight;
    float rate = 0.0f:
    if (requestWidth == 0 && requestHeight == 0) {
        Log.e("decode", "request too small size");
    } else if (requestHeight == 0) {
        rate = (float) requestWidth / (float) originWidth;
        requestHeight = (int) (originHeight * rate);
    } else if (requestWidth == 0) {
        rate = (float) requestHeight / (float) originHeight;
        requestWidth = (int) (originWidth * rate);
        rate = (float) requestWidth / (float) originWidth;
        if (regHeight < reguestHeight * rate) {</pre>
             requestHeight = (int) (originHeight * rate);
        } else {
            rate = (float) requestHeight / (float) originHeight;
            requestWidth = (int) (originWidth * rate);
    }
    // Calculate inSampleSize
    options.inSampleSize = calculateInSampleSize(options, requestWidth, requestHeight);
    Log.d("decode", "request width : " + reqWidth + " height : " + reqHeight);
Log.d("decode", "cal request width : " + requestWidth + " height : " + requestHeight);
    Log.d("decode", "origin width : " + options.outWidth + " height : " + options.outHeight);
    Log.d("decode", "inSampleSize : " + options.inSampleSize);
    // Decode bitmap with inSampleSize set
    options.inJustDecodeBounds = false:
    return BitmapFactory.decodeResource(res, resId, options);
```

}

## Init Pata for Cardylew

item\_feed.xml 내 hardcoding string 지우기 holder에 알맞는 값 bind





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### MyFeed

\* 사용할사진 resource id 및 데이터 저장

#### MyFeed.java

## Util.decodeSampledBitma pfromResource

- \* 이미지사이즈확인: inJustPecodeBounds 옵션 사용하여 확인
- \* 작은이미지로디코딩:inSampleSize 옵션으로이미지 줄이기

## MyfeedlistAdapter.java

```
public class MyFeedListAdapter extends RecyclerView.Adapter<MyFeedListAdapter.ViewHolder> {
    private List<MvFeed> mvList;
    private Context mContext;
    public MyFeedListAdapter(Context context) {
        this.myList = new ArrayList<>();
        this.mContext = context;
       this.update();
    public void update(){
       this.myList.clear();
       MyFeed one = new MyFeed(R.drawable.songdo, R.drawable.mac, "[부산] 송도 해수욕장", 27, 8);
       MyFeed two = new MyFeed(R.drawable.junju, R.drawable.mon, "[전주] 전주 한옥마을", 34, 10);
       MyFeed three = new MyFeed(R.drawable.dome, R.drawable.hyo, "[구로] 고척 스카이돔", 52, 21);
       myList.add(one);
       myList.add(two);
       myList.add(three);
       myList.add(one);
       myList.add(two);
       myList.add(three);
       myList.add(one);
       myList.add(two);
       myList.add(three);
    }
    @Override
    public ViewHolder onCreateViewHolder(ViewGroup parent, int viewType) {
        View v = LayoutInflater.from(parent.getContext()).inflate(R.layout.item_feed, parent, false);
        return new ViewHolder(v);
```

}

## My Feed List Adapter. java

```
@Override
    public void onBindViewHolder(final ViewHolder holder, int position) {
        Log.d("view index", "recycler index : " + position);
        MyFeed my = myList.get(position);
        //new DownloadImageTask(holder.mFeedCenterImageView).execute(my.feed img src);
        int mFeedCenterImageWidth = holder.mFeedCenterImageView.getLavoutParams().width:
        int mFeedCenterImageHeight = holder.mFeedCenterImageView.getLayoutParams().height;
        Bitmap mFeedCenterImageBitmap = resizeResource(my.feed img src, mFeedCenterImageWidth,
mFeedCenterImageHeight);
        holder.mFeedCenterImageView.setImageBitmap(mFeedCenterImageBitmap);
        //new DownloadImageTask(holder.mProfileImageView).execute(my.profile img src);
        int mProfileImageViewWidth = holder.mProfileImageView.getLayoutParams().width;
        int mProfileImageViewHeight = holder.mProfileImageView.getLayoutParams().height;
        Bitmap mProfileImageBitmap = resizeResource(my.profile img src, mProfileImageViewHeight,
mProfileImageViewWidth);
        holder.mProfileImageView.setImageBitmap(mProfileImageBitmap);
        holder.mFeedTitleTextView.setText(my.title name);
holder.mLikesNumberTextSwitcher.setCurrentText(holder.mView.getResources().getQuantityString(R.plurals.likes count,
my.likes number, my.likes number));
holder.mViewsNumberTextSwitcher.setCurrentText(holder.mView.getResources().getQuantityString(R.plurals.views count,
my.views number, my.views number));
    @Override
    public int getItemCount() {
        return myList.size();
```

## MyfeedlistAdapter.java

```
public class ViewHolder extends RecyclerView.ViewHolder {
    public final View mView;
    public final ImageView mFeedCenterImageView;
    public final ImageView mProfileImageView;
    public final TextView mFeedTitleTextView;
    public final TextSwitcher mLikesNumberTextSwitcher;
    public final TextSwitcher mViewsNumberTextSwitcher;

public ViewHolder(View view) {
        super(view);
        mView = view;
        mFeedCenterImageView = (ImageView) view.findViewById(R.id.ivFeedCenter);
        mProfileImageView = (ImageView) view.findViewById(R.id.ivFeedTitle);
        mFeedTitleTextView = (TextView) view.findViewById(R.id.ivFeedTitle);
        mLikesNumberTextSwitcher = (TextSwitcher) view.findViewById(R.id.tsLikesCounter);
        mViewsNumberTextSwitcher = (TextSwitcher) view.findViewById(R.id.tsViewCounter);
}
```

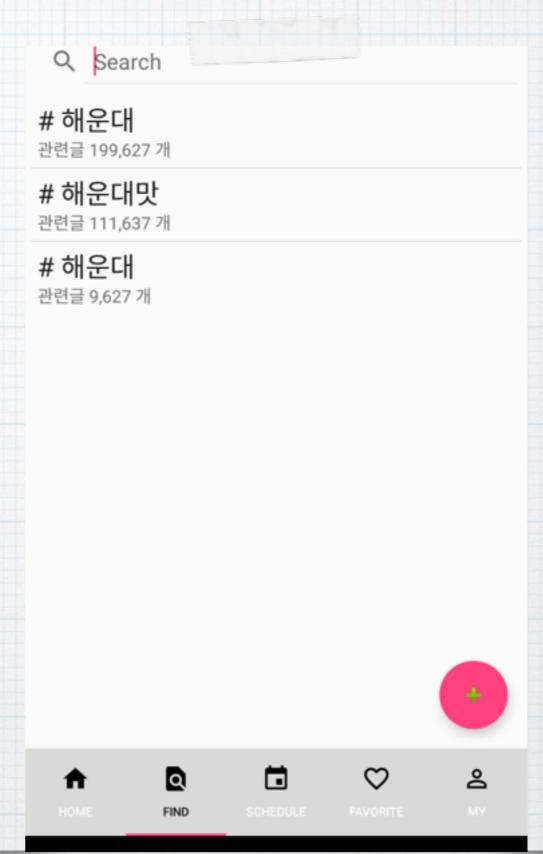
}

## MyfeedlistAdapter.java

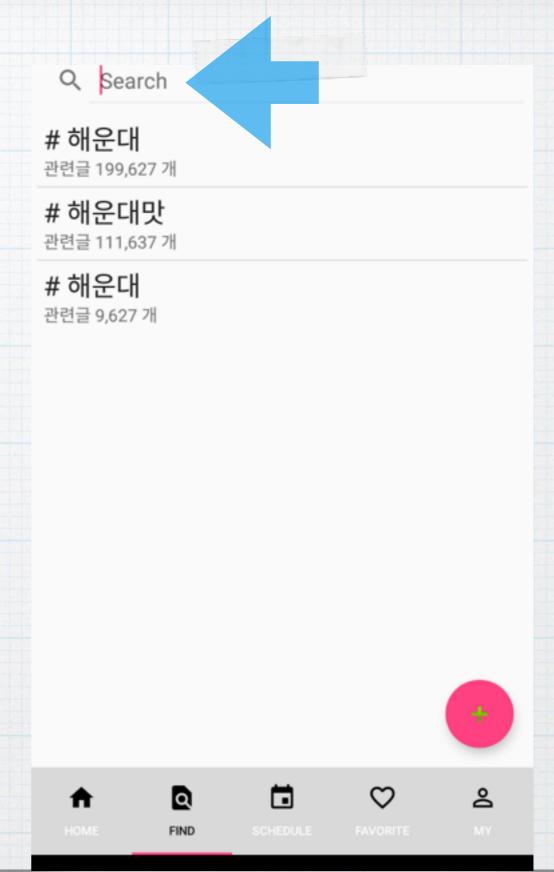
```
private Bitmap resizeResource(int imageResourceId, int width, int
height){
    return Util.decodeSampledBitmapFromResource(mContext.getResources(),
imageResourceId, width, height);
    }
}
```

# Search 9-

새로 layout을 구성 LinearLayout을 이용하여 item\_detail.xml을 구성



#### Add Search VI



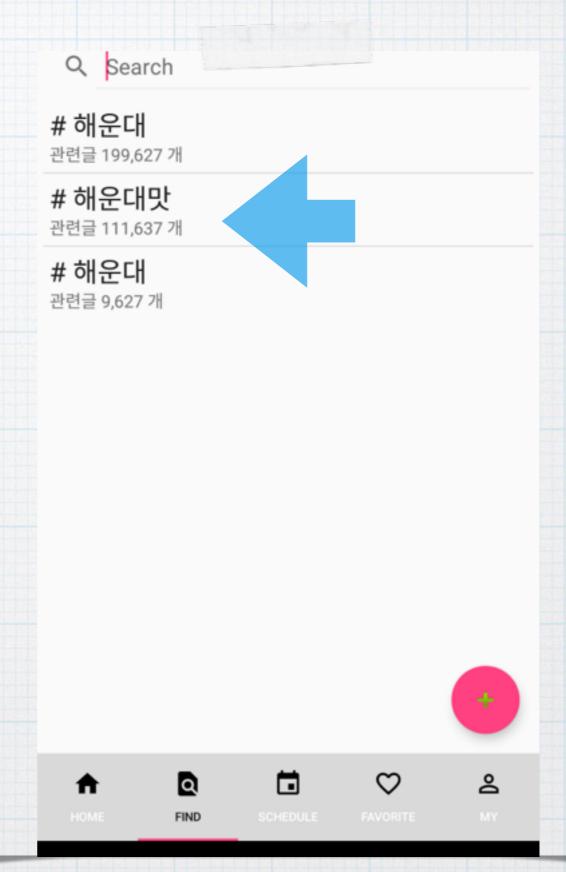
#### SearchView

- \* search 에 필요한 UI
- \* queryHint로기본문자열설정

# search\_layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:orientation="vertical"
    android:layout width="match parent"
    android: layout height="match parent">
    <android.support.v7.widget.SearchView</pre>
        android:id="@+id/favorite search"
        android:layout width="match parent"
        android:layout height="wrap content"
        app:queryHint="Search"
        app:iconifiedByDefault="false"
    <LinearLayout
        android:layout width="match parent"
        android:layout height="wrap content"
        style="@style/ListWrapper">
        <ListView
            android:id="@+id/search result list"
            android:layout width="match parent"
            android:layout height="wrap content"></ListView>
    </LinearLayout>
</LinearLayout>
```

#### Add Listview



# BaseAdapter

- \* search 결과를 나타내기 위해 List view 사용
- \* ListView Pata를 나타내기 위해 기본 아 답터 사용

# MySearchResult.java

```
public class MySearchResult {
    public enum SearchType{
        NONE,
        HASH_TAG,
        LOCATION,
        PERSION_ID
    }
    public SearchType mType = SearchType.NONE;
    public String mResultTitle = "";
    public String mSubscribe = "";

    public MySearchResult(SearchType type, String title, String subscribe){
        mType = type;
        mResultTitle = title;
        mSubscribe = subscribe;
    }
}
```

# ResultAdapter.java

```
public class ResultAdapter extends BaseAdapter {
    private Context mContext;
    private List<MySearchResult> mResultList;
    public ResultAdapter(Context context) {
        this.mContext = context;
       this.mResultList = new ArrayList<>();
       MySearchResult one = new MySearchResult(MySearchResult.SearchType.HASH_TAG, "해운대", "관련글 199,627 개");
       MySearchResult two = new MySearchResult(MySearchResult.SearchType.HASH_TAG, "해운대맛", "관련글 111,637 개");
       MySearchResult three = new MySearchResult(MySearchResult.SearchType.HASH TAG, "해운대", "관련글 9,627 개");
       this.mResultList.add(one):
       this.mResultList.add(two);
       this.mResultList.add(three);
   }
   @Override
    public int getCount() {
        return mResultList.size();
   @Override
    public Object getItem(int position) {
        return mResultList.get(position);
    }
   @Override
    public long getItemId(int position) {
        return position;
```

# ResultAdapter.java

```
@Override
    public View getView(int position, View convertView, ViewGroup parent) {
        final int pos = position;
        if (convertView == null){
            convertView =
LayoutInflater.from(parent.getContext()).inflate(R.layout.item search result, parent, false);
            TextView titleTextView = (TextView)convertView.findViewById(R.id.search_title);
            String type = mResultList.get(pos).mType == MySearchResult.SearchType.HASH TAG ? "#" :
                    (mResultList.get(pos).mType == MySearchResult.SearchType.LOCATION ? "V" :
                    (mResultList.get(pos).mType == MySearchResult.SearchType.PERSION_ID ? "P" : ""));
            titleTextView.setText(type + " " + mResultList.get(pos).mResultTitle);
            TextView subscriptTextView = (TextView)convertView.findViewById(R.id.search subscript);
            subscriptTextView.setText(mResultList.get(pos).mSubscribe);
            convertView.setOnClickListener(new View.OnClickListener() {
                @Override
                public void onClick(View v) {
                    Context context = mContext;
                    Intent intent = new Intent(context, SearchContentActivity.class);
                    context.startActivity(intent);
            });
        return convertView;
```

# Search 화면 구성

\* MainActivity onCreateVeiwd에서 search\_layout.xml과 MySearchResultAdapter를 생성하여 구

# MainActivity.java

#### User Profile 4-Grid

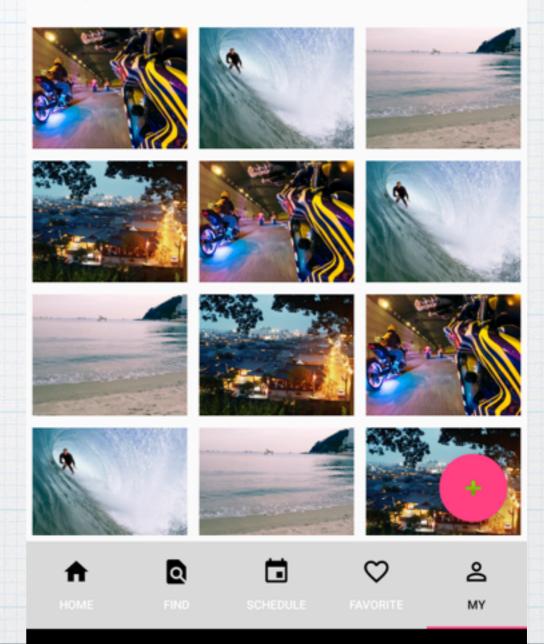
LinearLayout을 이용하여 사용자정보구성 GridView를 사용하여 Grid 구성

#### 웨얼유앳(Where U At)

프로필

VR기기를 통해 화면 속 상황을 더욱 생생하게! 여행계 획 시 필요한 꿀팁과 일정까지 GET!!!

업로드 수 | 17 친구수 | 12300



#### Add Profile

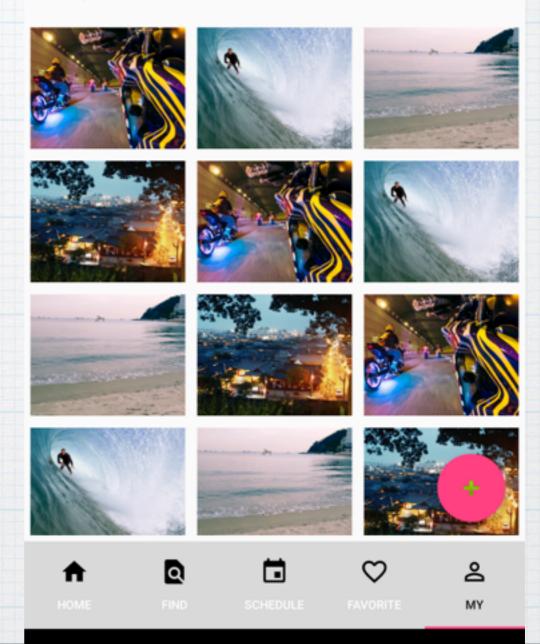
LinearLayout사용

#### 웨얼유앳(Where U At)

프로필

VR기기를 통해 화면 속 상황을 더욱 생생하게! 여행계획 시 필요한 꿀팁과 일정까지 GET!!!

업로드 수 | 17 친구수 | 12300



#### 사용자정보

\* linear layout 으로 구성

# my\_info\_layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:orientation="vertical" android:layout_width="match_parent"
    android:layout height="match parent">
    <include layout="@layout/id layout"/>
    <LinearLayout
        android:layout width="match parent"
        android:layout height="50dp"
        android:orientation="vertical"
        android:layout_margin="5dp">
        <LinearLayout
            android:layout width="wrap content"
            android: layout height="wrap content"
            android:orientation="horizontal">
            <TextView
                android:layout width="wrap content"
                android:layout height="match parent"
                android:text="업로드 수 | " />
            <TextView
                android:layout width="wrap content"
                android: layout height="match parent"
                android:id="@+id/uploadCounter"
                android:text="17" />
        </LinearLayout>
        <LinearLavout
            android:layout width="wrap content"
            android:layout height="wrap content"
            android:orientation="horizontal">
            <TextView
                android:layout width="wrap content"
                android:layout height="match parent"
                android:text="친구수 | " />
            <TextView
                android:layout_width="wrap_content"
                android: layout height="match parent"
                android:id="@+id/FriendsCounter"
                android:text="12300" />
        </LinearLayout>
    </LinearLayout>
</LinearLayout>
```

#### Use Grid

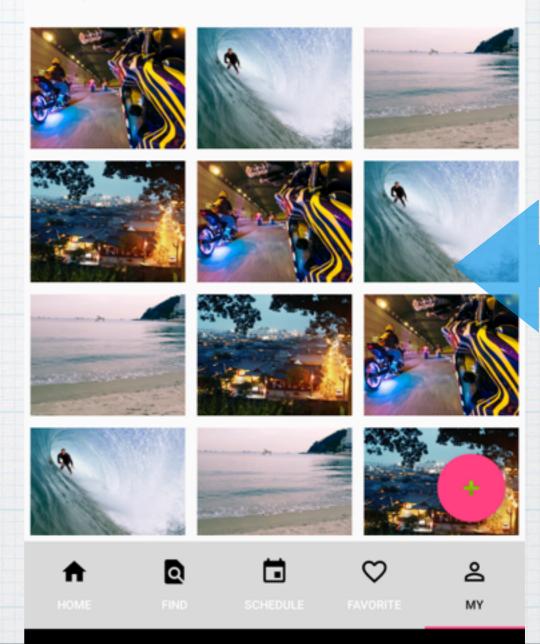
새로 layout을 구성 LinearLayout을 이용하여 item\_detail.xml을 구성

#### 웨얼유앳(Where U At)

프로필

VR기기를 통해 화면 속 상황을 더욱 생생하게! 여행계 획 시 필요한 꿀팁과 일정까지 GET!!!

업로드 수 | 17 친구수 | 12300



#### 사용자이미지 Grid

- \* 재사용가능성이 있는 Gridview를 따로 xml로 구성
- \* 사용하는 곳에서 include 하여 사용

#### item\_grid.xml

```
<?xml version="1.0" encoding="utf-8"?>
<GridView xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/gridview"
    tools:context=".MainActivity"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fastScrollEnabled="true"
    android:scrollingCache="true"
    android:columnWidth="100dp"
    android:numColumns="auto_fit"
    android:verticalSpacing="10dp"
    android:stretchMode="columnWidth"
    android:gravity="center">
```

</GridView>

# my\_info\_layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    android:orientation="vertical" android:layout width="match parent"
    android:layout_height="match_parent">
    <include layout="@layout/id layout"/>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="50dp"
        android:orientation="vertical"
        android:layout_margin="5dp"...>
   <LinearLayout
        android:layout_width="match_parent"
        android: layout_height="wrap_content"
        style="@style/GridWrapper">
        <include layout="@layout/item_grid" />
    </LinearLayout>
</LinearLayout>
```

# ImageAdapter

```
public class ImageAdapter extends BaseAdapter {
    private Context mContext;
    private LruCache<String, Bitmap> mMemoryCache;
    private Integer[] mImageIds = {
            R.drawable.img_feed_center_1, R.drawable.img_feed_center_2,
            R.drawable.songdo, R.drawable.junju,
            R.drawable.img feed center 1, R.drawable.img feed center 2,
            R.drawable.songdo, R.drawable.junju,
            R.drawable.img feed center 1, R.drawable.img feed center 2,
            R.drawable.songdo, R.drawable.junju,
            R.drawable.img_feed_center_1, R.drawable.img_feed_center_2,
            R.drawable.songdo, R.drawable.junju,
            R.drawable.img_feed_center_1, R.drawable.img feed center 2,
            R.drawable.songdo, R.drawable.junju,
            R.drawable.img feed center 1, R.drawable.img feed center 2,
            R.drawable.dome, R.drawable.songdo,
            R.drawable.img_feed_center_1, R.drawable.img_feed_center_2,
            R.drawable.dome, R.drawable.songdo,
            R.drawable.img feed center 1, R.drawable.img feed center 2,
            R.drawable.dome, R.drawable.songdo,
            R.drawable.img feed center 1, R.drawable.img feed center 2,
            R.drawable.songdo, R.drawable.junju,
            R.drawable.dome, R.drawable.songdo,
            R.drawable.songdo, R.drawable.junju,
            R.drawable.dome, R.drawable.songdo,
            R.drawable.songdo, R.drawable.junju,
            R.drawable.dome, R.drawable.songdo,
            R.drawable.songdo, R.drawable.junju,
            R.drawable.dome, R.drawable.songdo,
            R.drawable.songdo, R.drawable.junju,
            R.drawable.dome, R.drawable.songdo
```

# ImageAdapter

```
public ImageAdapter(Context context) {
    mContext = context;

    // Get memory class of this device, exceeding this amount will throw an
    // OutOfMemory exception.
    final int maxMemory = (int) (Runtime.getRuntime().maxMemory());

    // Use 1/8th of the available memory for this memory cache.
    final int cacheSize = maxMemory / 8;
    Log.d("grid perf", "cacheSize : " + cacheSize);

    mMemoryCache = new LruCache<String, Bitmap>(cacheSize) {

        protected int sizeOf(String key, Bitmap bitmap) {
            // The cache size will be measured in bytes rather than number
            // of items.
            Log.d("grid perf", "sizeOf : " + bitmap.getByteCount());
            return bitmap.getByteCount();
        }
    };
}
```

# ImageAdapter

```
@Override
public int getCount() {
    return mImageIds.length;
}

@Override
public Object getItem(int position) {
    return null;
}

@Override
public long getItemId(int position) {
    return 0;
}
```

# lmageAdapter

```
@Override
public View getView(int position, View convertView, ViewGroup parent) {
    ImageView imageView:
    if(convertView == null){
        imageView = new ImageView(mContext);
        imageView.setLayoutParams(new GridView.LayoutParams(GridView.AUTO FIT, (
                int)(100*mContext.getResources().getDisplayMetrics().density)));
        imageView.setScaleType(ImageView.ScaleType.CENTER CROP);
   else{
        imageView = (ImageView) convertView;
    Log.d("view index", "grid index : " + position);
    final String imageKey = String.valueOf(mImageIds[position]);
    Log.d("grid perf", "imageKey : " + imageKey);
    Bitmap thumbnailBitmap = getBitmapFromMemCache(imageKey);
    if(thumbnailBitmap == null){
        int imageViewHeight = imageView.getLayoutParams().height;
        int imageViewWidth = imageView.getLayoutParams().width;
        thumbnailBitmap = resizeResource(mImageIds[position], imageViewWidth, imageViewHeight);
        addBitmapToMemoryCache(imageKey, thumbnailBitmap);
        Log.d("grid perf", "imageKey : " + imageKey + " use new image");
    }else{
        Log.d("grid perf", "imageKey : " + imageKey + " use cached image");
    imageView.setImageBitmap(thumbnailBitmap);
    return imageView;
}
```

# lmageAdapter

```
private Bitmap resizeResource(int imageResourceId, int width, int height){
    int requestWidth = width;
    int requestHeight = height;
    return Util.decodeSampledBitmapFromResource(mContext.getResources(), imageResourceId,
requestWidth, requestHeight);
}

public void addBitmapToMemoryCache(String key, Bitmap bitmap) {
    if (getBitmapFromMemCache(key) == null) {
        mMemoryCache.put(key, bitmap);
    }
}

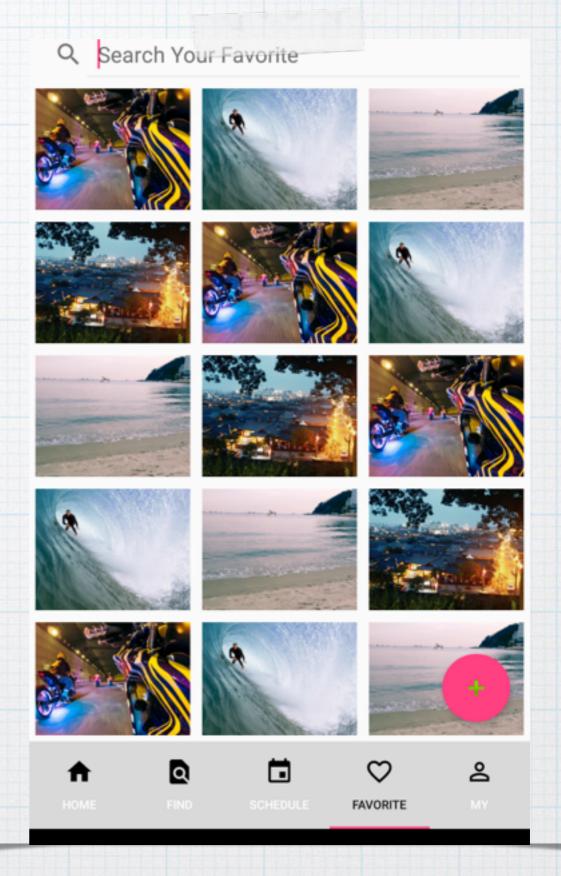
public Bitmap getBitmapFromMemCache(String key) {
    return mMemoryCache.get(key);
}
```

# 사용자정보화면구성

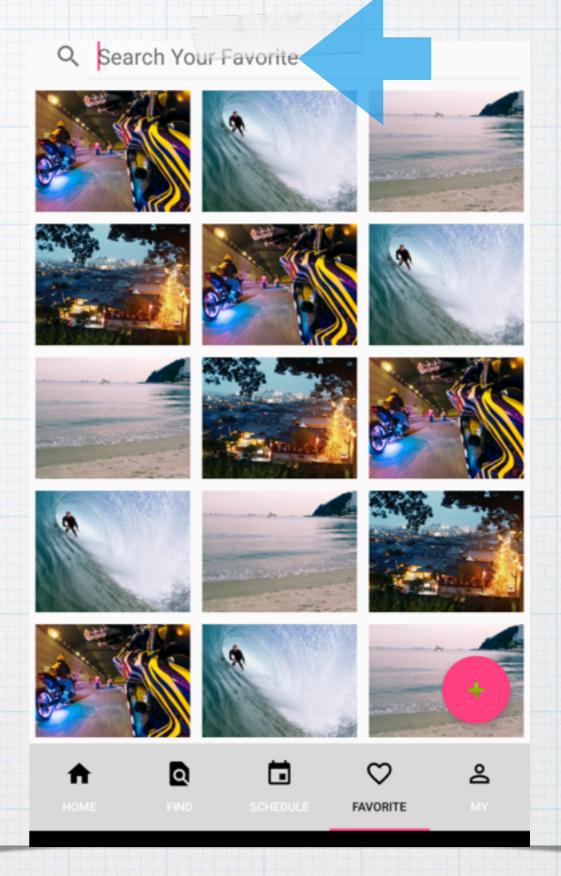
\* MainActivity onCreateVeiwd에서 my\_info\_layout.xml과 gridview에 lmageAdapter를 생성하여 구성

# MainActivity.java

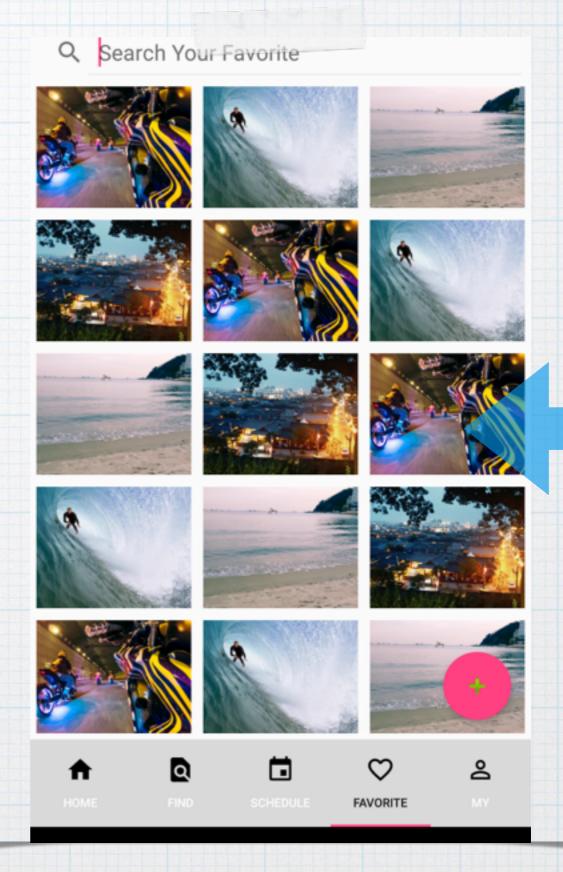
#### Grid List



#### Add Search VI



#### Add Grid VI



#### SearchView

- \* search 에 필요한 UI
- \* queryHint로기본문자열설정

# Favorite grid

\* 만들어 놓은 Gridview를 include 하여 사용

# favorite\_layout.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:orientation="vertical"
    android: layout width="match parent"
    android:layout_height="match parent">
    <android.support.v7.widget.SearchView</pre>
        android:id="@+id/favorite search"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        app:queryHint="Search Your Favorite"
        app:iconifiedByDefault="false">
    </android.support.v7.widget.SearchView>
    <LinearLayout
        android:layout width="match parent"
        android:layout_height="wrap_content"
        style="@style/GridWrapper">
        <include layout="@layout/item_grid" />
    </LinearLayout>
</LinearLayout>
```

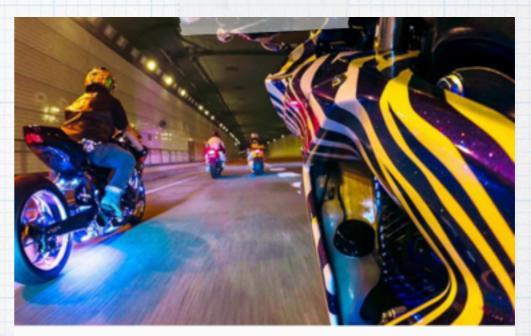
# 사용자정보화면구성

\* MainActivity onCreateVeiwd에서 favorite\_layout.xml과 gridview에 lmageAdapter를 생성하여 구성

# MainActivity.java

# Launch

클릭이벤트로상세보기화면 띄우기





일정 | #대학로 > #여의도 > #영등포

[대학로] 이화벽화마을

촬영일 | 2016.05.23 | 05:00 pm

조회수 | 12300

좋아요 | 123

#### 웨얼유앳(Where U At)

프로필

VR기기를 통해 화면 속 상황을 더욱 생생하게! 여행계 획 시 필요한 꿀팁과 일정까지 GET!!!

#대학로 #이화벽화마을 #포토존 #봄사진 #인생사진 #꽃벽화 #낙산공 워

#### from Card

클릭이벤트로상세보기화면 띄우기





일정 | #대학로 > #여의도 > #영등포

[대학로] 이화벽화마을

촬영일 | 2016.05.23 | 05:00 pm

조회수 | 1<mark>2300</mark>

좋아요 | 123



[부산] 송도 해수욕

프로필

#### 웨얼유앳(Where U At)

VR기기를 통해 화면 속 상황을 더욱 생생하게! 여행계 획 시 필요한 꿀팁과 일정까지 GET!!!

#대학로 #이화벽화마을 #포토존 #봄사진 #인생사진 #꽃벽화 #낙산공



#### from Grid

클릭이벤트로 상세 보기

화면띄우기





**일정** | #대학로 > #여의도 > #영등포

[대학로] 이화벽화마을



좋아요 | 123



#### 웨얼유앳(Where U At)

VR기기를 통해 화면 속 상황을 더욱 생생하게! 여행계 획 시 필요한 꿀팁과 일정까지 GET!!!

#대학로 #이화벽화마을 #포토존 #봄사진 #인생사진 #꽃벽화 #낙산공 = 위



#### OnclickListener

\* grid image 에 click event 시 상세 화면을 볼수 있는 Activity 호출 구현

#### ContentActivity.java

```
public class ContentActivity extends Activity {
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.item_detail);
    }

    @Override
    protected void onDestroy() {
        super.onDestroy();
    }
}
```

# ImageAdapter.java

```
@Override
 public View getView(int position, View convertView, ViewGroup parent) {
     ImageView imageView;
     if(convertView == null){
         imageView = new ImageView(mContext);
         imageView.setLayoutParams(new GridView.LayoutParams(GridView.AUTO FIT, (
                 int)(100*mContext.getResources().getDisplayMetrics().density)));
         imageView.setScaleType(ImageView.ScaleType.CENTER CROP);
     else{
         imageView = (ImageView) convertView;
     Log.d("view index", "grid index : " + position);
     final String imageKey = String.valueOf(mImageIds[position]);
     Log.d("grid perf", "imageKey : " + imageKey);
     Bitmap thumbnailBitmap = getBitmapFromMemCache(imageKey);
     if(thumbnailBitmap == null){
         int imageViewHeight = imageView.getLayoutParams().height;
         int imageViewWidth = imageView.getLayoutParams().width;
         thumbnailBitmap = resizeResource(mImageIds[position], imageViewWidth, imageViewHeight);
         addBitmapToMemoryCache(imageKey, thumbnailBitmap);
         Log.d("grid perf", "imageKey : " + imageKey + " use new image");
     }else{
         Log.d("grid perf", "imageKey : " + imageKey + " use cached image");
     imageView.setImageBitmap(thumbnailBitmap);
     imageView.setOnClickListener(new View.OnClickListener() {
         @Override
         public void onClick(View v) {
             Context context = v.getContext();
             Intent intent = new Intent(context, ContentActivity.class);
             context.startActivity(intent);
     });
     return imageView;
```

# content activity에 data 남기기?

search 결과 입력후, 결과는 어떻게 변경 할까?