

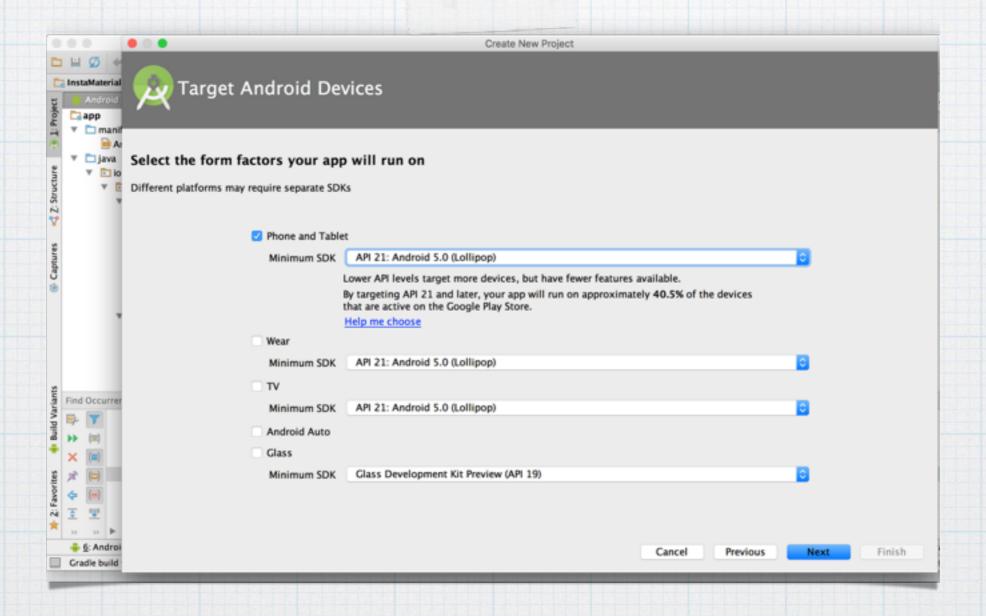
Where Uat

만들어 봅시다

오늘의 Github

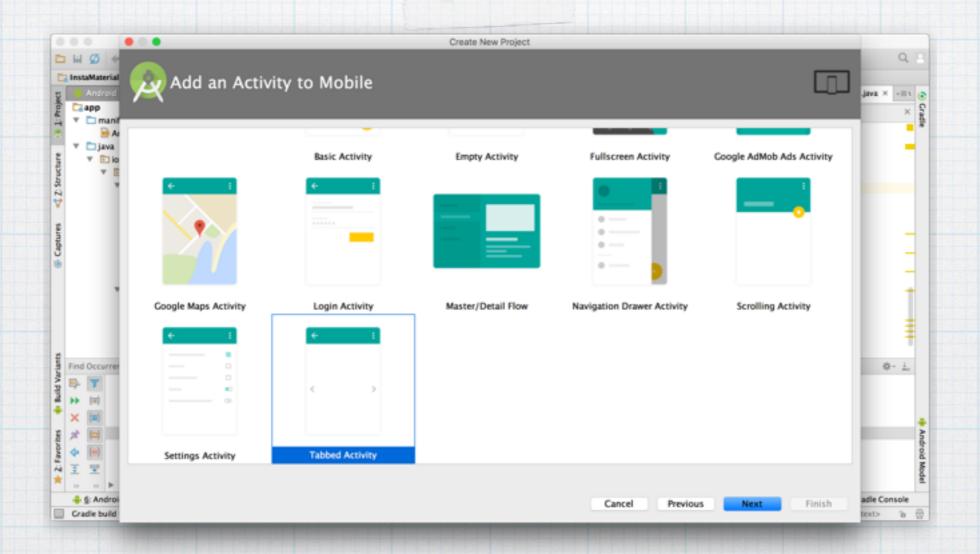
- * 실습최종코드: https://github.com/ hyeyag/WhereUAt
- * Reference 코드: https://github.com/ frogermcs/InstaMaterial

새로프로젝트만들기



* Minimum SDK: API 21 로 설정

Tab Menu를 만들어 보자



- * Tabbed Activity 선택
- * Fragment & FragmentPagerAdapter 1 &

원하는이름으로마무리

○ ○ ○ Create New Project							
1: Project	InstaMaterial Android app	Customize the Activity] .jav	a× -	Q,
Z. Structure 3	Ar ▼ □ java ▼ □ io ▼ E		Creates a new blank activ	rity, with an action bar and navigational elements such as tabs or horizontal swipe.			-
			Activity Name: Layout Name: Fragment Layout Name: Title: Menu Resource Name: Navigation Style:	MainActivity activity_main fragment_main MainActivity menu_main Action Bar Tabs (with ViewPager)			
· Build Variants	Find Occurrer (ii)	Tabbed Activity				φ.	
	A (iii) ↓ (iii) ↓ (iii) ↓ (iii) iii iii iii Gradie build		Additional features to inc	Additional features to include, such as a fragment, swipe views, or a navigation drawer Cancel Previous Next Finish			Android Model (E)

* Action Bar (with ViewPager) 선택

android.design.support

- * http://android-developers.blogspot.kr/ 2015/05/android-design-supportlibrary.html
- * https://developer.android.com/topic/ libraries/support-library/features.html

Fragment

- * Acitivy 내 여러 UI를 구현할 때
- * https://developer.android.com/guide/components/fragments.html

Toolbar

- * http://googledevkr.blogspot.kr/2014/10/ appcompat-v21-material-design-forpre.html
- * https://developer.android.com/reference/android/support/v7/widget/Toolbar.html

AppBarlayout

- * CoordinatorLayout 내에 자연스러운스 크롤
- * https://developer.android.com/reference/ android/support/design/widget/ AppBarLayout.html
- * http://googledevkr.blogspot.kr/2015/06/designsupport.html

Tablayout

- * ViewPager를 컨트롤 할수 있는 Tab
- * https://developer.android.com/reference/ android/support/design/widget/ Tablayout.html

ViewPager

- * 화면 좌우 슬라이드로 전환
- * https://developer.android.com/reference/ android/support/v4/view/ ViewPager.html

FloatingActionButton

- * 떠다니는 버튼
- * https://developer.android.com/reference/ android/support/design/widget/ FloatingActionButton.html

기본형태

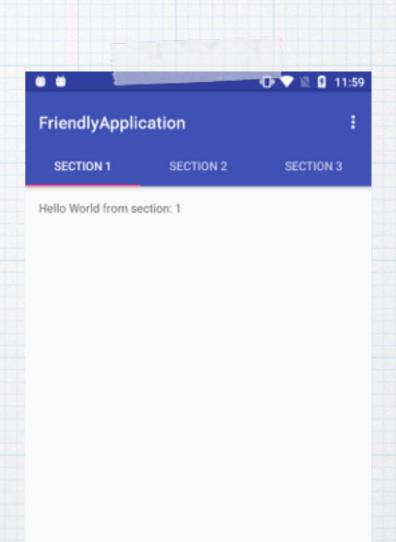
```
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout xmlns:android="http://</pre>
schemas.android.com/apk/res/android"
                                                                                 xmlns:tools="http://schemas.android.com/tools"
    xmlns:app="http://schemas.android.com/apk/res-auto"
                                                               FriendlyApplication
    android:id="@+id/main_content"
                                                                                   SECTION 3
                                                                SECTION 1
                                                                          SECTION 2
    android:layout width="match parent"
    android:layout_height="match_parent"
                                                               Hello World from section: 1
    android:fitsSystemWindows="true"
    tools:context="com.example.bangchangbae.friendlyapplication.MainActivity">
    <android.support.design.widget.AppBarLayout</pre>
        android:id="@+id/appbar"
        android:layout width="match parent"
        android:layout height="wrap content"
        android:paddingTop="@dimen/appbar padding top"
        android: theme="@style/AppTheme.AppBarOverlay">
        <android.support.v7.widget.Toolbar</pre>
            android:id="@+id/toolbar"
            android: layout width="match parent"
            android:layout_height="?attr/actionBarSize"
            android:background="?attr/colorPrimary"
            app:popupTheme="@style/AppTheme.PopupOverlay"
            app:layout_scrollFlags="scroll|enterAlways">
                                                                   ۷
                                                                           0
        </android.support.v7.widget.Toolbar>
        <android.support.design.widget.TabLayout</pre>
            android:id="@+id/tabs"
```

android:layout_width="match_parent"

android:layout_height="wrap_content" />

기본형태

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout xmlns:android="http://schemas.android.com/</pre>
apk/res/android"
    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">
    <android.support.design.widget.AppBarLayout</pre>
        android:id="@+id/appbar"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:paddingTop="@dimen/appbar_padding_top"
        android: theme="@style/AppTheme.AppBarOverlay">
        <android.support.v7.widget.Toolbar</pre>
             android:id="@+id/toolbar"
            android:layout width="match parent"
            android:layout_height="?attr/actionBarSize"
            android:background="?attr/colorPrimary"
            app:popupTheme="@style/AppTheme.PopupOverlay"
            app:layout_scrollFlags="scroll|enterAlways">
        </android.support.v7.widget.Toolbar>
        <android.support.design.widget.TabLayout</pre>
            android:id="@+id/tabs"
            android:layout_width="match_parent"
            android:layout_height="wrap_content" />
    </android.support.design.widget.AppBarLayout>
    <android.support.v4.view.ViewPager</pre>
        android:id="@+id/container"
        android:layout_width="match_parent"
        android:layout height="match parent"
        app:layout_behavior="@string/appbar_scrolling_view_behavior"/>
    <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:src="@android:drawable/ic_dialog_email" />
</android.support.design.widget.CoordinatorLayout>
```



Tab을 아래로이동

```
Friendly Application
<?xml version="1.0" encoding="utf-8"?>
<android.support.design.widget.CoordinatorLayout xmlns:android="http://
Hello World from section: 1</pre>
schemas.android.com/apk/res/android"
    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">
    <LinearLayout
        android:layout width="wrap content"
        android:layout height="wrap content"
        android:orientation="vertical">
    <android.support.design.widget.AppBarLayout</pre>
        android:id="@+id/appbar"
        android:layout width="match parent"
        android: layout height="wrap content"
        android:paddingTop="@dimen/appbar padding top"
        android: theme="@style/AppTheme.AppBarOverlay">
        <android.support.v7.widget.Toolbar</pre>
            android:id="@+id/toolbar"
                                                                           SECTION 2
                                                                SECTION 1
            android:layout width="match parent"
                                                                            0
                                                                    ◁
            android:layout height="?attr/actionBarSize"
            android:background="?attr/colorPrimary"
            app:popupTheme="@style/AppTheme.PopupOverlay"
             app:layout scrollFlags="scroll|enterAlways">
```

</android.support.v7.widget.Toolbar>

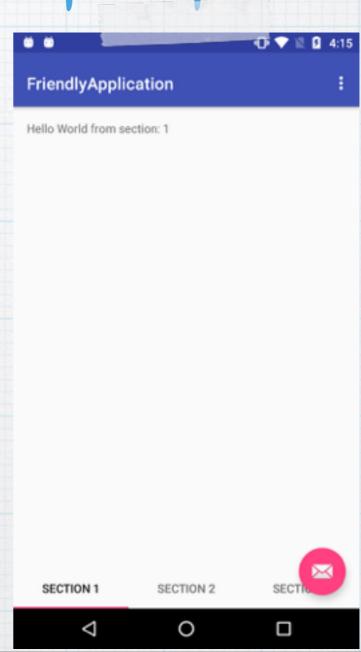
원래 있던 Tab 지우기

```
<android.support.design.widget.AppBarLayout</pre>
        android:id="@+id/appbar"
        android:layout width="match parent"
        android: layout height="wrap content"
        android:paddingTop="@dimen/appbar padding top"
        android: theme="@style/AppTheme.AppBarOverlay">
        <android.support.v7.widget.Toolbar</pre>
            android:id="@+id/toolbar"
            android:layout width="match parent"
            android:layout height="?attr/actionBarSize"
            android:background="?attr/colorPrimary"
            app:popupTheme="@style/AppTheme.PopupOverlay"
            app:layout scrollFlags="scroll|enterAlways">
        </android.support.v7.widget.Toolbar>
        <!--<android.support.design.widget.TabLayout
            android:id="@+id/tabs"
            android:layout width="match parent"
            android: layout height="wrap content" />-->
    </android.support.design.widget.AppBarLayout>
```



Layout 로 ViewPage와 Tab 영역 나누기

```
<RelativeLayout
        android:layout width="match parent"
        android:layout height="wrap content">
    <android.support.v4.view.ViewPager</pre>
        android:id="@+id/container"
        android:layout width="match parent"
        android:layout height="match parent"
        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"
        />
    </RelativeLayout>
    </LinearLayout>
<android.support.design.widget.FloatingActionButton</pre>
```



CardView

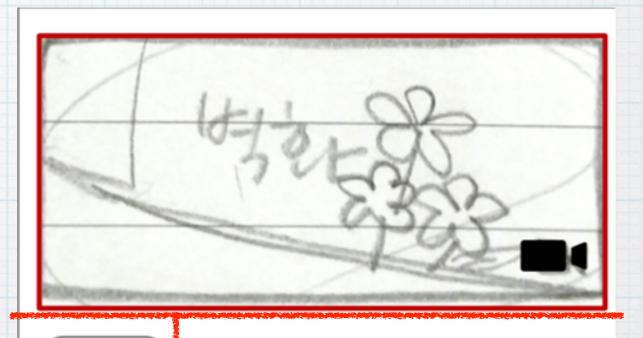
- * 스크롤리스트에 사용하기 좋은 FrameLayout
- * https://developer.android.com/training/ material/lists-cards.html

cardview 추가

```
dependencies {
    compile fileTree(dir: 'libs', include: ['*.jar'])
    testCompile 'junit:junit:4.12'
    compile 'com.android.support:appcompat-v7:23.4.0'
    compile 'com.android.support:design:23.4.0'
    compile 'com.android.support:cardview-v7:23.1.1'
}
```

홈화면 구성

새로 layout을 구성 LinearLayout을 이용하여 item_feed.xml을 구성



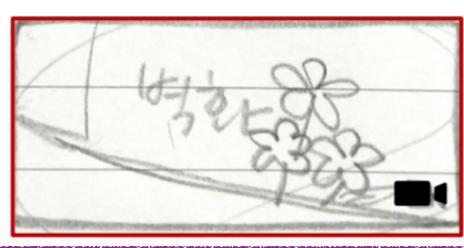
프로필

[대학로] 이화벽화마을

조회수 2,147 💗 150

위/아래 나누기

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="vertical">
        <ImageView ... />
        <LinearLayout ... />
    </LinearLayout>
```

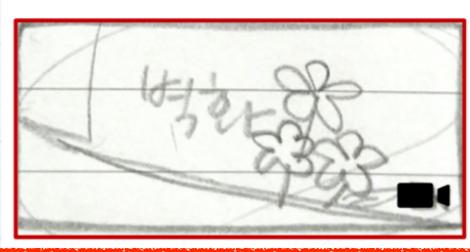


프로필 [대학로] 이화벽화마을 조회수 2,147 ♥ 150

* orientation을 verticla 로 설정

좌/우나누기

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal">
        <ImageView .../>
        <LinearLayout .../>
</LinearLayout>
```



프로필 [대학로] 이화벽화마을 조회수 2,147 ♥ 150

* orientation을 horizontal 로 설정

위/아래 나누기

```
<LinearLayout
    android:layout_width="wrap_content"
    android:layout_height="match_parent"
    android:orientation="vertical"
    android:layout_weight="1">
        <TextView .../>
        <LinearLayout .../>
```

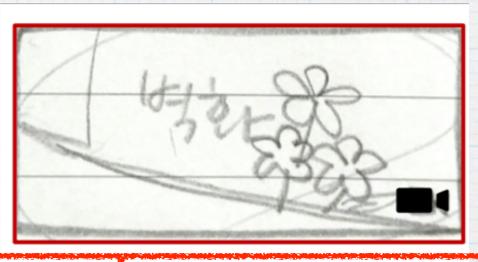


프로필 [대학로] 이화벽화마을 조회수 2,147 ♥ 150

* orientation을 verticla 로 설정

좌/우나누기

```
<LinearLayout
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:orientation="horizontal"
    android:baselineAligned="false">
        <LinearLayout .../>
        <LinearLayout .../>
    </LinearLayout>
```



프로필 [대학로] 이화벽화마을 조회수 2,147 ♥ 150

* orientation을 horizontal 로 설정

item_feed.xml 완성

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.CardView xmlns:android="http://schemas.android.com/apk/</pre>
res/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">
        < Image View
            android:id="@+id/ivFeedCenter"
            android:layout_width="match_parent"
            android: layout height="wrap content"
            android:scaleType="centerCrop"
            android:src="@drawable/img_feed_center_1"
            android:layout weight="1" />
        <LinearLayout
            android: layout width="match parent"
            android:layout_height="wrap_content"
            android:orientation="horizontal">
            < Image View
                android:id="@+id/ivUserProfile"
                android:layout width="wrap content"
                android: layout height="wrap content"
```

첫 번째 Section에 설정

```
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup
container,
        Bundle savedInstanceState) {
    int sectionNumber = getArguments().getInt(ARG SECTION NUMBER);
    View rootView = null;
    if(sectionNumber == 1){
        rootView = inflater.inflate(R.layout.item feed, container,
false);
    else{
        //View rootView = inflater.inflate(R.layout.fragment main,
container, false);
        rootView = inflater.inflate(R.layout.fragment_main,
container, false);
        TextView textView = (TextView)
rootView.findViewById(R.id.section label);
        //textView.setText(getString(R.string.section format,
getArguments().getInt(ARG SECTION NUMBER)));
        textView.setText(getString(R.string.section format,
sectionNumber));
    return rootView;
```



RecyclerView

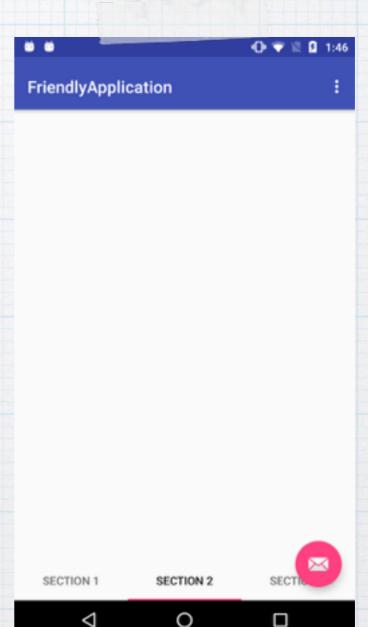
- * ListView 보다 고급진 뷰
- * https://developer.android.com/reference/ android/support/v7/widget/ RecyclerView.html

feed_list.xml 만들기

```
Friendly Application
<?xml version="1.0" encoding="utf-8"?>
<android.support.v7.widget.RecyclerView</pre>
xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:id="@+id/rvFeed"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:scrollbars="none"
    app:layout behavior="@string/
appbar_scrolling_view_behavior">
</android.support.v7.widget.RecyclerView>
                                                               SECTION 2
                                                      SECTION 1
```

두번째 Section에 설정

```
@Override
public View onCreateView(LayoutInflater inflater, ViewGroup container,
        Bundle savedInstanceState) {
   int sectionNumber = getArguments().getInt(ARG_SECTION_NUMBER);
   View rootView = null;
   if(sectionNumber == 1){
        rootView = inflater.inflate(R.layout.item_feed, container, false);
   else if(sectionNumber == 2){
        rootView = inflater.inflate(R.layout.feed_list, container, false);
       if (rootView instanceof RecyclerView) {
            Context context = rootView.getContext();
            RecyclerView mRecyclerView = (RecyclerView) rootView;
            mRecyclerView.setHasFixedSize(true);
   }
   else{
        rootView = inflater.inflate(R.layout.fragment_main, container, false);
       TextView textView = (TextView) rootView.findViewById(R.id.section_label);
        textView.setText(getString(R.string.section format, sectionNumber));
   }
    return rootView;
}
```



```
public class MyFeedListAdapter extends RecyclerView.Adapter<MyFeedListAdapter.ViewHolder> {
    private List<MyFeed> myList;
    private Context context;
    public MyFeedListAdapter(Context context) {
        this.myList = new ArrayList<>();
        this.context = context;
   @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);
   }
   public void onBindViewHolder(final ViewHolder holder, int position) {
   }
   @Override
    public int getItemCount() {
        return myList.size();
    public class ViewHolder extends RecyclerView.ViewHolder {
        public ViewHolder(View view) {
   }
    public class MyFeed {
        public String feed img src = null;
        public String profile_img_src = null;
        public String title_name = null;
        public int views number = 0;
        public int likes number = 0;
        public MyFeed(String feed_img_src, String profile_img_src, String title_name, int views_number, int likes_number){
            this.feed img src = feed img src;
            this.profile img src = profile img src;
            this.title_name = title_name;
            this.views_number = views_number;
            this.likes number = likes number;
```

```
private class DownloadImageTask extends AsyncTask<String, Void, Bitmap> {
    ImageView bmImage;
    public DownloadImageTask(ImageView bmImage) {
        this.bmImage = bmImage;
    protected Bitmap doInBackground(String... urls) {
        String urldisplay = urls[0];
        Bitmap mIcon11 = null;
        try {
            InputStream in = new java.net.URL(urldisplay).openStream();
            mIcon11 = BitmapFactory.decodeStream(in);
        } catch (Exception e) {
            Log.e("Error", e.getMessage());
            e.printStackTrace();
        return mIcon11;
    protected void onPostExecute(Bitmap result) {
        bmImage.setImageBitmap(result);
```

```
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.ivUserProfile);
        mFeedTitleTextView = (TextView) view.findViewById(R.id.ivFeedTitle);
        mLikesNumberTextSwitcher = (TextSwitcher) view.findViewById(R.id.tsLikesCounter);
        mViewsNumberTextSwitcher = (TextSwitcher) view.findViewById(R.id.tsViewCounter);
}
```

```
public MyFeedListAdapter(Context context) {
    this.myList = new ArrayList<>();
    this.context = context:
    this.update();
public void update(){
    this.myList.clear();
    MyFeed one = new MyFeed("", "", "[TEST] one", 111, 11111);

MyFeed two = new MyFeed("", "", "[TEST] two", 211, 21111);

MyFeed three = new MyFeed("", "", "[TEST] three", 311, 31111);
    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);
}
@Override
public void onBindViewHolder(final ViewHolder holder, int position) {
    MyFeed my = myList.get(position);
    //new DownloadImageTask(holder.mFeedCenterImageView).execute(my.feed img src);
    //new DownloadImageTask(holder.mProfileImageView).execute(my.profile img src);
    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));
}
```

두번째 Section에 적용

```
else if(sectionNumber == 2){
    rootView = inflater.inflate(R.layout.feed_list, container, false);
    if (rootView instanceof RecyclerView) {
        Context context = rootView.getContext();
        RecyclerView mRecyclerView = (RecyclerView) rootView;
        mRecyclerView.setHasFixedSize(true);

        mLayoutManager = new LinearLayoutManager(context);
        mRecyclerView.setLayoutManager(mLayoutManager);

        mAdapter = new MyFeedListAdapter(context);
        mRecyclerView.setAdapter(mAdapter);
}
```

