Andorid Programming Week 5

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Part I

ToolBar/AppBar/ActionBar(Deprecated)

Outline I

AppCompat (aka ActionBarCompat) with Material Design

Adding the App Bar (aka Action Bar)

Setting Up the App Bar Add a Toolbar to an activity

Adding and Handling Actions

Styling Toolbar

Create Custom Style in res/styles.xml

Diplaying App Icon within Toolbar

Customize Toolbar View

Reacting to Scroll with RecyclerView

Add Fragment-Specific Actions to Existing Action Bar

Action Views and Action Providers

Action Views

Action Providers



Outline II

Flaoting Context Menu

Contextual Actoin Bar (CAB)
CAB for Copy and Paste

Popup Menu on List Item

Standalone Toolbars

1. Toolbar (Toolbar widget)

- generalization of the Action Bar
- more control and flexiblity
 - easier to position, animate and control
- Toolbar is a view included in a layout like other views
- multiple distinct Toolbar elements can be defined in the same activity

Use a Toolbar as an Action Bar

- ensure the AppCompat-v7 support library is added to your gradle
- 3. Use a standalone Toolbar
 - showing multiple toolbars on the screen

- spanning only part of the width, and so on.
- 4. Click! Toolbars and Appbars with Material Design

- One of the most important design elements in your app's activities
 - A dedicated space for giving your app an identity and indicating the user's location in the app
 - Access to important actions in a predictable way, such as search.
 - Support for navigation and view switching (with tabs or drop-down lists)

Add a Toolbar to an activity

1. Make sure the activity extends AppCompatActivity

```
public class MyActivity extends AppCompatActivity {
   // ...
}
```

- 2. Set the <application> element to use one of appcompat's NoActionBar themes (in Manifest file)
 - Prevent the app from using the native ActionBar class

```
<application
    android:theme="@style/Theme.AppCompat.Light.NoActionBar"
    />
```

- 3. Add a Toolbar to the activity's layout
 - Position the toolbar at the top of the activity's layout

```
<android.support.v7.widget.Toolbar
android:id="@+id/my_toolbar"
android:layout_width="match_parent"
android:layout_height="?attr/actionBarSize"
android:background="?attr/colorPrimary"
android:elevation="4dp"
android:theme="@style/ThemeOverlay.AppCompat.ActionBar"
app:popupTheme="@style/ThemeOverlay.AppCompat.Light"/>
```

4. Set the toolbar as the app bar for the activity in the activity's onCreate() method

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_my);
    Toolbar myToolbar = (Toolbar) findViewById(R.id.my_toolbar);
    setSupportActionBar(myToolbar);
}
```

- 5. By default, the action bar contains just the name of the app and an overflow menu
- To use the ActionBar utility methods, call the activity's getSupportActionBar() method

1. Add Action Buttons and Others in the Overflow memnu

defined in an XML menu resource

- Adding the App Bar (aka Action Bar)
 - LAdding and Handling Actions

android:showAsAction

Keyword. When and how this item should appear as an action item in the app bar. A menu item can appear as an action item only when the activity includes an app bar. Valid values:

Value	Description
ifRoom	Only place this item in the app bar if there is room for it. If there is not room for all the items marked "ifRoom", the items with the lowest orderInCategory values are displayed as actions, and the remaining items are displayed in the overflow menu.
withText	Also include the title text (defined by android:title) with the action item. You can include this value along with one of the others as a flag set, by separating them with a pipe .
never	Never place this item in the app bar. Instead, list the item in the app bar's overflow menu.
always	Always place this item in the app bar. Avoid using this unless it's critical that the item always appear in the action bar. Setting multiple items to always appear as action items can result in them overlapping with other UI in the app bar.
collapseActionView	The action view associated with this action item (as declared by android:actionLayout or android:actionViewClass) is collapsible. Introduced in API Level 14.

2. Inflate the menu in the Activity

Adding and Handling Actions

```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    getMenuInflater().inflate(R.menu.my_activity_actions, menu);
    return true;
}
```

3. Respond to Actions

 When one of the app bar items is selected, the activity's onOptionsItemSelected() callback method is called with a MenuItem object

```
@Override
public boolean onOptionsItemSelected(MenuItem item) {
  switch (item.getItemId()) {
    case R.id.action_settings:
      // User chose the "Settings" item, show the app settings UI...
      return true;
   case R.id.action favorite:
      // User chose the "Favorite" action, mark the current item
     // as a favorite...
     return true;
   default:
      // If we got here, the user's action was not recognized.
     // Invoke the superclass to handle it.
      return super.onOptionsItemSelected(item);
}
```

Create Custom Style

```
<stvle name="ToolbarTheme"</pre>
    parent="@style/ThemeOverlay.AppCompat.Dark.ActionBar">
  <!-- android:textColorPrimary is the color of the title text in
      the Toolbar -->
  <item
      name = "android:textColorPrimary">@android:color/holo_blue_light</item>
  <!-- actionMenuTextColor is the color of the text of action
      (menu) items -->
  <item
      name = "actionMenuTextColor" > @android: color/holo_green_light </item>
  <!-- Tints the input fields like checkboxes and text fields -->
  <item name="colorAccent">@color/cursorAccent</item>
  <!-- Applies to views in their normal state. -->
  <item name="colorControlNormal">@color/controlNormal</item>
  <!-- Applies to views in their activated state (i.e checked or
      switches) -->
  <item name="colorControlActivated">@color/controlActivated</item>
  <!-- Applied to framework control highlights (i.e ripples or list
      selectors) -->
  <item name="colorControlHighlight">@color/controlActivated</item>
  <!-- Enable these below if you want clicking icons to trigger a
      ripple effect -->
  <!--
```

• Apply the custom style to Toolbar

```
<android.support.v7.widget.Toolbar
android:id="@+id/toolbar"
android:layout_width="match_parent"
android:layout_height="wrap_content"
android:minHeight="?attr/actionBarSize"
android:background="?attr/colorPrimary"
android:theme="@style/ToolbarTheme"
app:titleTextAppearance="@style/Toolbar.TitleText"
app:popupTheme="@style/ThemeOverlay.AppCompat.Light"
/>
```

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    // ...
    // Find the toolbar view and set as ActionBar
    Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
    setSupportActionBar(toolbar);
    // ...
    // Display icon in the toolbar
    getSupportActionBar().setDisplayShowHomeEnabled(true);
    getSupportActionBar().setLogo(R.mipmap.ic_launcher);
    getSupportActionBar().setDisplayUseLogoEnabled(true);
    // ...
}
```

• You may need to adjust some margins to properly display icon

```
<android.support.v7.widget.Toolbar</pre>
    android:id="@+id/toolbar"
    android:minHeight="?attr/actionBarSize"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    app:titleTextColor="@android:color/white"
    android:background="?attr/colorPrimary">
    <TextView
        android: id="@+id/toolbar_title"
        android: lavout width="wrap content"
        android:layout_height="wrap_content"
        android:text="Toolbar Title"
        android:textColor="@android:color/white"
        style="@style/TextAppearance.AppCompat.Widget.ActionBar.Title"
        android:lavout gravity="center"
     />
     <ImageView</pre>
        android:id="@+id/toolbar_image"/>
</android.support.v7.widget.Toolbar>
```

• If you want to set a new Title with the TextView, need to disable default title

use CoordinatorLayout

```
<android.support.design.widget.CoordinatorLayout</pre>
    android:id="@+id/main_content"
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android: lavout height="match parent">
    <!-- AppBarLayout is a wrapper for a Toolbar in order to apply
        scrolling effects. -->
    <!-- Note that AppBarLayout expects to be the first child
        nested within a CoordinatorLavout -->
    <android.support.design.widget.AppBarLayout</pre>
        android:id="@+id/appBar"
        android: layout width="match parent"
        android:layout_height="wrap_content"
        android: theme = "@style/ThemeOverlay.AppCompat.ActionBar">
        <!-- Toolbar is the actual app bar with text and the action
             items -->
        <android.support.v7.widget.Toolbar</pre>
            android:id="@+id/toolbar"
            android: layout width="match parent"
            android:layout_height="?attr/actionBarSize"
```

Andorid Programming

```
android:background="?attr/colorPrimary"
            app:lavout scrollFlags="scroll|enterAlways" />
    </android.support.design.widget.AppBarLayout>
    <!-- This could also be included from another file using the
        include tag -->
    <!-- i.e 'res/layout/content_main.xml' -->
    <!-- 'app:layout_behavior' is set to a pre-defined standard
        scrolling behavior -->
    <android.support.v7.widget.RecyclerView</pre>
        android:id="@+id/my_recycler_view"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:clipToPadding="false"
        app:layout_behavior="@string/appbar_scrolling_view_behavior"
            />
</android.support.design.widget.CoordinatorLayout>
```

1. Create Menu for Fragment

2. Enable OptionMenu (inside Fragment)

 Add Action Items by inflating Fragment's menu(inside Fragment)

```
@Override
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater) {
    super.onCreateOptionsMenu(menu, inflater);
    inflater.inflate(R.menu.menu_frag, menu);
}
```

- ♦ Question: What happens when device rotate?
- 4. Handle Actions (inside Fragment)

♦ Question: If the activity's onOptionItemSelected method has a hanling routine for the same action item, which one will perform?

- An action view is an action that provides rich functionality within the app bar
 - example: search action view allows the user to type their search text in the app bar, without having to change activities or fragments
- An action provider is an action with its own customized layout. The action initially appears as a button or menu item, but when the user clicks the action, the action provider controls the action's behavior in any way you want to define. For example, the action provider might respond to a click by displaying a menu.

1. Add an Action View

create an <item> element in the toolbar's menu resource

```
<item android:id="@+id/action_search"
    android:title="@string/action_search"
    android:icon="@drawable/ic_search"
    app:showAsAction="ifRoom|collapseActionView"
    app:actionViewClass="android.support.v7.widget.SearchView" />
```

2. Configure the action in your activity's onCreateOptionsMenu() callback

LAction Views

```
@Override
public boolean onCreateOptionsMenu(Menu menu. MenuInflater
    inflater) {
  if(menu.findItem(R.id.action search) == null)
    inflater.inflate(R.menu.menu_action_view, menu);
  SearchView search = (SearchView)
      menu.findItem(R.id.action_search).getActionView();
  // Configure the search info and add any event listeners...
  if(search != null) {
    search.setOnQueryTextListener(new
        SearchView.OnQueryTextListener() {
      00verride
      public boolean onQueryTextSubmit(String query) {
        int pos = movieData.findFirst(query);
        if(pos >= 0)
          mRecyclerView.scrollToPosition(pos);
        return true;
      QOverride
      public boolean onQueryTextChange(String query) {
        return true;
```

```
});
}
return super.onCreateOptionsMenu(menu, inflater);
}
```

3. Responding to action view expansion

Action Views and Action Providers

LAction Views

```
public boolean onMenuItemActionExpand(MenuItem item) {
            // Do something when expanded
            return true; // Return true to expand action view
   }:
   // Get the MenuItem for the action item
   MenuItem actionMenuItem = menu.findItem(R.id.action_search);
   // Assign the listener to that action item
   MenuItemCompat.setOnActionExpandListener(actionMenuItem,
        expandListener);
    // Any other things you have to do when creating the options
        men.11
   return true;
}
```

create an <item> element in the toolbar's menu resource

```
<item android:id="@+id/action_share"
   android:title="@string/share"
   app:showAsAction="ifRoom"
   app:actionProviderClass="android.support.v7.widget.ShareActionProvider"</pre>
```

L Action Providers

Set up ShareActionProvider

```
00verride
public void onCreateOptionsMenu(Menu menu, MenuInflater inflater){
  inflater.inflate(R.menu.menu detail. menu);
 MenuItem shareItem = menu.findItem(R.id.action_share);
 mShareActionProvider = (ShareActionProvider)
      MenuItemCompat.getActionProvider(shareItem);
  Intent intentShare = new Intent(Intent.ACTION_SEND);
  intentShare.setType("text/plain");
  intentShare.putExtra(Intent.EXTRA_TEXT, (String)
      movie.get("name"));
  if (mShareActionProvider != null && intentShare != null)
    mShareActionProvider.setShareIntent(intentShare):
  super.onCreateOptionsMenu(menu, inflater);
```

1. Menu resource

```
<menu xmlns:android="http://schemas.android.com/apk/res/android"</pre>
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools">
    <item
        android:id="@+id/action_delete"
        android:icon="@drawable/ic_menu_delete"
        app:showAsAction="ifRoom|withText"
        app:itemIconTint="@color/white"
        android:title="Delete movie" />
    <item
        android:id="@+id/action_duplicate"
        android:icon="@drawable/ic_menu_duplicate"
        app:showAsAction="ifRoom|withText"
        app:itemIconTint="@color/colorAccent"
        android:title="Duplicate movie" />
</menu>
```

2. Register a click(long-press) event to a view (inside Fragment)

3. Implement ActionBarCallback class (inner class of Fragment)

```
class ActionBarCallBack implements ActionMode.Callback{
  int position:
  public ActionBarCallBack(int position){
  this.position = position;
  }
  Onverride
  public boolean onCreateActionMode(ActionMode mode, Menu menu) {
   mode.getMenuInflater().inflate(R.menu.menu popup, menu):
   return true;
  }
  Onverride
  public boolean onPrepareActionMode(ActionMode mode, Menu menu) {
    HashMap movie = (HashMap)movieData.getItem(position);
   mode.setTitle((String)movie.get("name"));
   return false;
  @Override
  public boolean onActionItemClicked(ActionMode mode, MenuItem
      item) {
  int id = item.getItemId();
```

```
switch (id){
      case R.id.action delete:
        movieData.deleteItem(position);
        myAdapter.notifyItemRemoved(position);
        mode.finish():
        break;
      case R.id.action_duplicate:
        movieData.addItem(position+1,(HashMap)
             ((HashMap)movieData.getItem(position)).clone());
        myAdapter.notifyItemInserted(position+1);
        mode.finish();
        break:
      default:
        break;
    }
    return false;
  @Override
  public void onDestroyActionMode(ActionMode mode) {
}
```

Make a TextView's content selectable

```
<TextView
    android:layout_weight="4"
    android:layout_width="fill_parent"
    android:layout_height="wrap_content"
    android:layout_marginLeft="10dp"
    android:layout_marginRight="10dp"
    android:textIsSelectable="true"
    android:id="0+id/mDes" />
```

- 1. Make Menu in XML (use same memu)
- Register Event Listener and Set up Popup menu (inside Fragment)

```
myAdapter.setOnItemClickListener(new
    MyRecyclerAdapter.OnItemClickListener(){
 // ...
@Override
public void onOverflowMenuClick(View view, final int position) {
  PopupMenu popup = new PopupMenu(getActivity(), view);
  popup.setOnMenuItemClickListener(new
      PopupMenu.OnMenuItemClickListener() {
    @Override
    public boolean onMenuItemClick(MenuItem item) {
      int id = item.getItemId();
      switch (id) {
        case R.id.action delete:
          movieData.deleteItem(position);
          myAdapter.notifyItemRemoved(position);
          return true:
        case R.id.action_duplicate:
```

3. Register Event Handler (inside Adapter)

```
public interface OnItemClickListener{
    public void onItemClick(View view, int position);
    public void onItemLongClick(View view, int position);
    public void onOverflowMenuClick(View view, int position);
}

public void setOnItemClickListener(final OnItemClickListener mItemClickListener){
    this.mItemClickListener = mItemClickListener;
}
```

4. Trigger Event Handler in a View (inside ViewHolder)

```
public ViewHolder(View view) {
  super(view);
 // ...
  overFlow = (ImageView) view.findViewById(R.id.overFlow);
 // ...
  if(overFlow != null){
    overFlow.setOnClickListener( new View.OnClickListener(){
      00verride
      public void onClick(View v) {
        if (mItemClickListener != null) {
          mItemClickListener.onOverflowMenuClick(v,
               getAdapterPosition());
   });
```

- Not App Bar (ActionBar)
- need to inflate toolbar's menu
- need to register item cick listener
- 1. Make Toolbar's layout
- 2. Inflate the menu

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_bottom_toolbar);
    topT = (Toolbar) findViewById(R.id.toolbar);
    setSupportActionBar(topT);

bottomT = (Toolbar) findViewById(R.id.bot_toolbar);
    bottomT.inflateMenu(R.menu.bottom_toolbar);
    setupBottomToolbarItemSelected();

// ...
}
```

3. Register and Handler Item Click Event

```
private void setupBottomToolbarItemSelected(){
    bottomT.setOnMenuItemClickListener(new
        Toolbar.OnMenuItemClickListener(){
        Onverride
        public boolean onMenuItemClick(MenuItem item) {
            int id = item.getItemId();
            switch (id){
                case R.id.bottom action1:
                    Toast.makeText(getApplicationContext(),
                         "Clicked Bottom Action
                         1", Toast.LENGTH_SHORT).show();
                    return true;
                case R.id.bottom action2:
                    Toast.makeText(getApplicationContext(),
                         "Clicked Bottom Action
                         2".Toast.LENGTH SHORT).show():
                    return true;
                default:
                    break:
            return false:
    });
```

}

Part II

Navigation Drawer

Outline I

Activity Layout

Header Layout

Navigation Menu

Activity

```
<?xml version="1.0" encoding="utf-8"?>
<android.support.v4.widget.DrawerLavout</pre>
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/drawer_layout"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:fitsSystemWindows="true"
    tools:openDrawer="start">
    <RelativeLayout
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:orientation="vertical">
    <include</pre>
        layout="@layout/app_bar_main"
        android: layout width="match parent"
        android:layout_height="match_parent" />
    <FrameLayout</pre>
        android:layout_marginTop="100dp"
        android:lavout below="@+id/toolbar"
        android:id="@+id/me_container"
```

```
android:layout_width="match_parent"
        android:layout_height="match_parent">
    </FrameLayout>
    </RelativeLayout>
    <android.support.design.widget.NavigationView</pre>
        android:id="@+id/nav view"
        android:layout_width="wrap_content"
        android:layout_height="match_parent"
        android: layout_gravity="start"
        android:fitsSystemWindows="true"
        app:headerLayout="@layout/nav_header_main"
        app:menu="@menu/activity_main_drawer" />
</android.support.v4.widget.DrawerLayout>
```

```
<?xml version = "1.0" encoding = "utf-8"?>
<LinearLayout
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:background="@drawable/nav_back"
    android:gravity="bottom"
    android: orientation="vertical"
    android:paddingBottom="@dimen/activity_vertical_margin"
    android:paddingLeft="@dimen/activity_horizontal_margin"
    android:paddingRight="@dimen/activity_horizontal_margin"
    android:paddingTop="@dimen/activity_vertical_margin"
    android: theme = "@style/ThemeOverlay.AppCompat.Dark">
    <com.mikhaellopez.circularimageview.CircularImageView</pre>
        android:paddingTop="20dp"
        android: layout_gravity="center_horizontal"
        android:lavout width="150dp"
        android:layout_height="150dp"
        android:src="@drawable/olaf"
        app:civ border color="#EEEEEE"
        app:civ_border_width="4dp"
        app:civ_shadow="true"
        app:civ_shadow_radius="10"
        app:civ_shadow_color="#8BC34A"/>
```

```
<?xml version = "1.0" encoding = "utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <group android:checkableBehavior="single">
        <item
            android:id="@+id/nav aboutme"
            android:icon="@drawable/ic_person_outline_black_24dp"
            android:title="About Me" />
        <item
            android:id="@+id/nav_layout"
            android:icon="@drawable/ic menu gallery"
            android:title="Check Layout Manager" />
        <item
            android:id="@+id/nav_recycler"
            android:icon="@drawable/ic_listview"
            android:title="Movie RecyclerView " />
        <item
            android:id="@+id/nav_toolbar"
            android:icon="@drawable/ic b toolbar"
            android:title="Toolbars with Movie" />
    </group>
    <item android:title="Communicate">
        <men11>
            <item
                android:id="@+id/nav_share"
```

```
public class MainActivity extends AppCompatActivity
        implements NavigationView.OnNavigationItemSelectedListener {
   Olverride
   protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.lavout.activity main):
        // Toolbar
        Toolbar toolbar = (Toolbar) findViewById(R.id.toolbar);
        setSupportActionBar(toolbar):
        // Navigation Drawer
        DrawerLayout drawer = (DrawerLayout)
            findViewBvId(R.id.drawer lavout):
        ActionBarDrawerToggle toggle = new ActionBarDrawerToggle(
                this, drawer, toolbar,
                    R.string.navigation_drawer_open,
                    R.string.navigation_drawer_close);
        drawer.setDrawerListener(toggle);
        toggle.syncState();
        NavigationView navigationView = (NavigationView)
            findViewById(R.id.nav_view);
        navigationView.setNavigationItemSelectedListener(this);
```

```
@Override
public void onBackPressed() {
    DrawerLayout drawer = (DrawerLayout)
        findViewById(R.id.drawer_layout);
    if (drawer.isDrawerOpen(GravityCompat.START)) {
        drawer.closeDrawer(GravityCompat.START);
    } else {
        super.onBackPressed():
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // Inflate the menu; this adds items to the action bar if
        it is present.
    getMenuInflater().inflate(R.menu.main. menu);
    return true;
@Override
public boolean onOptionsItemSelected(MenuItem item) {
    // Handle action bar item clicks here. The action bar will
    // automatically handle clicks on the Home/Up button, so
        lona
```

}

```
// as you specify a parent activity in AndroidManifest.xml.
int id = item.getItemId():
//noinspection SimplifiableIfStatement
switch(id){
    case R.id.action_settings:
        Toast.makeText(getApplicationContext(), "Action
            Setting", Toast.LENGTH_SHORT).show();
        return true;
    case R.id.action_compose:
        Toast.makeText(getApplicationContext(), "Action
            Email Compose", Toast.LENGTH_SHORT).show();
        return true:
    case R.id.action_help:
        Toast.makeText(getApplicationContext(), "Action
            Help", Toast.LENGTH_SHORT).show();
        return true;
    case R.id.action activity:
        Toast.makeText(getApplicationContext(), "Action
            Activity", Toast.LENGTH_SHORT).show();
        return true:
}
return super.onOptionsItemSelected(item);
```

```
@SuppressWarnings("StatementWithEmptyBody")
QOverride
public boolean onNavigationItemSelected(MenuItem item) {
    // Handle navigation view item clicks here.
    int id = item.getItemId();
    if (id == R.id.nav aboutme) {
        // AboutMe Fragment
        MeFragment fr = MeFragment.newInstance():
        if (findViewById(R.id.me_container) != null && fr !=
            null) {
            getSupportFragmentManager().beginTransaction().add(R.id.me_
                 fr).commit():
    else if (id == R.id.nav lavout) {
        // New Activity
        Intent intent1 = new Intent (MainActivity.this,
             LayoutManagerActivity.class);
        startActivity(intent1);
    else if (id == R.id.nav_recycler) {
        // New Activity
```

}

```
Intent intent2 = new Intent (MainActivity.this,
        RecyclerViewActivity.class);
    startActivity(intent2);
else if (id == R.id.nav toolbar) {
    // New Activity
    Intent intent3 = new Intent(MainActivity.this,
        BottomToolbarActivity.class);
    startActivity(intent3);
else if (id == R.id.nav_share) {
else if (id == R.id.nav_send) {
}
DrawerLayout drawer = (DrawerLayout)
    findViewById(R.id.drawer_layout);
drawer.closeDrawer(GravityCompat.START);
return true;
```