

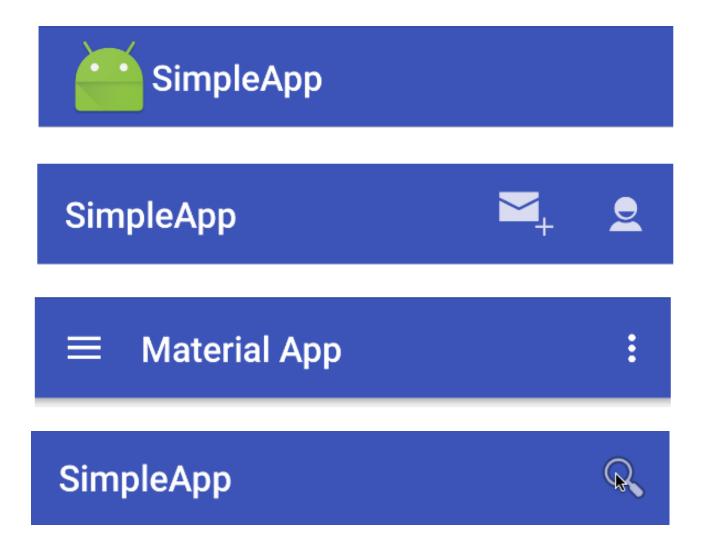
# Mobile Apps Development ActionBar & Menus (Lesson 08)

Lecturer: Vang Le Faculty of Information Technology Ton Duc Thang University

#### **Overview**

- The most common actions for an activity live on the default Action Bar
- •But actions that are more specific to an item or element can be displayed contextually using menus and popups.
- •In addition to menus, apps often need to display popup overlays that contain informational content.

#### **ActionBar: Examples**



#### **Changing the ActionBar Title**

#### **Displaying ActionBar Icon**



```
getSupportActionBar().setDisplayShowHomeEnabled(true);
getSupportActionBar().setLogo(R.mipmap.ic_launcher);
getSupportActionBar().setDisplayUseLogoEnabled(true);

MainActivity.java
```

## **Adding Action Items**

**SimpleApp** 



```
■ Material App :
```

```
<menu xmlns:android="http://schemas.android.com/apk/res/android"</pre>
      xmlns:app="http://schemas.android.com/apk/res-auto">
   <item
        android:id="@+id/miCompose"
        android:icon="@drawable/ic compose"
        app:showAsAction="ifRoom"
        android:title="Compose">
   </item>
   <item
        android:id="@+id/miProfile"
        android:icon="@drawable/ic_profile"
        app:showAsAction="ifRoom"
        android:title="Profile">
   </item>
                                              res/menu/menu main.xml
</menu>
```

# **Adding Action Items**

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

```
@Override
public boolean onOptionsItemSelected(MenuItem item) {
    switch (item.getItemId()) {
        case R.id.miCompose:
            //do something
            return true;
        case R.id.miProfile:
            //do something
            return true;
        default:
            return super.onOptionsItemSelected(item);
                                                     MainActivity.java
```

#### **Custom ActionBar Layout**

#### **Custom Title**

#### Adding SearchView to ActionBar

# SimpleApp

Notice that the app:showAsAction attribute also includes the "collapseActionView" value which collapses the search into an icon until clicked.

# Adding SearchView to ActionBar

```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    MenuInflater inflater = getMenuInflater();
    inflater.inflate(R.menu.main, menu);
    MenuItem searchItem = menu.findItem(R.id.action search);
    final SearchView searchView;
    searchView = (SearchView) MenuItemCompat.getActionView(
                                                    searchItem);
    searchView.setOnQueryTextListener(new OnQueryTextListener() {
       @Override
       public boolean onQueryTextSubmit(String query) {
       @Override
       public boolean onQueryTextChange(String newText) {
   });
   return super.onCreateOptionsMenu(menu);
```

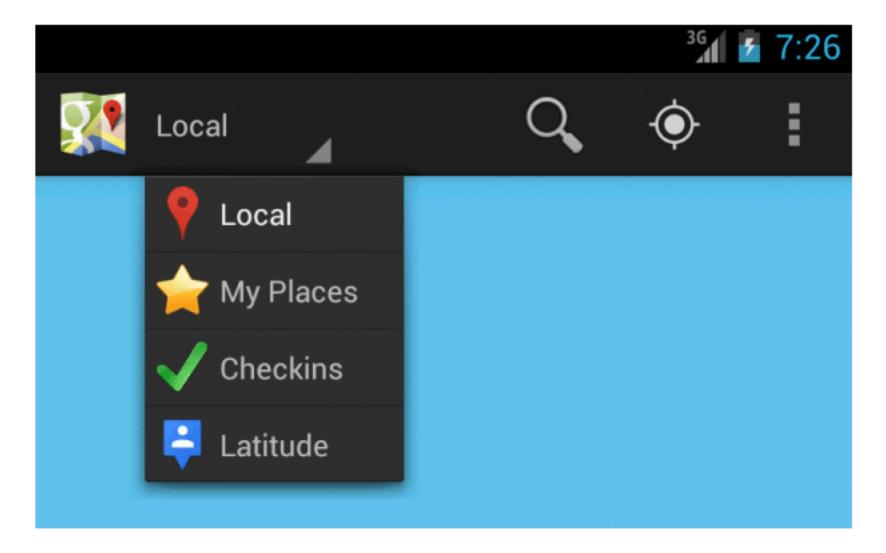
## **Extending SearchView**

```
@Override
public boolean onCreateOptionsMenu(Menu menu) {
    // ... Lookup the search view
    MenuItem searchItem = menu.findItem(R.id.action search);
    final SearchView searchView;
    searchView = (SearchView) MenuItemCompat.getActionView(
                                     searchItem);
    int searchTconId =
               android.support.v7.appcompat.R.id.search button;
    ImageView v = (ImageView) searchView.findViewById(searchIconId);
    v.setImageResource(R.drawable.search btn);
    // Customize searchview text and hint colors
    int searchEditTextId =
               android.support.v7.appcompat.R.id.search_src_text;
    EditText et = (EditText) searchView.findViewById(
                                            searchEditTextId);
    et.setTextColor(Color.BLACK);
    et.setHintTextColor(Color.BLACK);
```

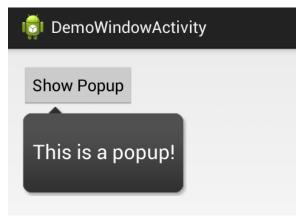
#### **Adding an Up Action**

```
@Override
protected void onCreate(Bundle savedInstanceState) {
    ...
    ActionBar ab = getSupportActionBar();
    ab.setDisplayHomeAsUpEnabled(true);
}
```

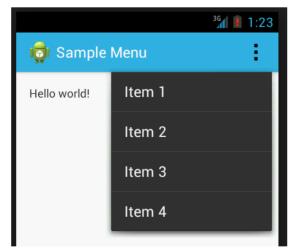
#### **Exercise 01**



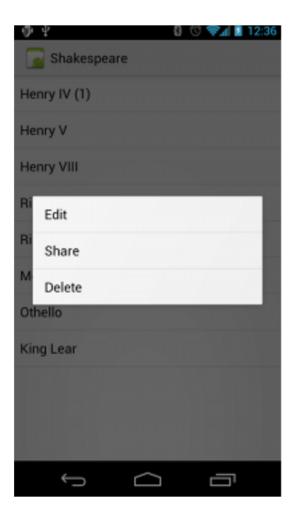
#### **Menus: Examples**



Popup Window



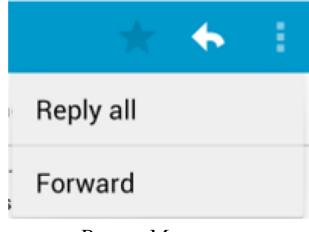
Options menu



Floating context menu



Contextual action bar



Popup Menu

#### **Menu: Contextual Action Modes**



#### **Menu: Contextual Action Modes**

```
final EditText editText = (EditText)findViewById(R.id.editText);
editText.setOnLongClickListener(new View.OnLongClickListener() {
    @Override
    public boolean onLongClick(View v) {
        ActionMode.Callback callback = buildActionMode();
        startActionMode(callback);
        return true;
    }
});
```

MainActivity.java

#### **Menu: Contextual Action Modes**

```
private ActionMode.Callback buildActionMode() {
    ActionMode.Callback callback = new ActionMode.Callback() {
        @Override
        public boolean onCreateActionMode(ActionMode mode,
                                             Menu menu) {
            getMenuInflater().inflate(R.menu.action_mode_menu,
                                     menu);
            mode.setTitle("Actions");
            return true;
        @Override
        public boolean onActionItemClicked(ActionMode mode,
                                             MenuItem item) {
            mode.finish();
            return true;
    return callback;
                                                       MainActivity.java
```

# Menu: Popup Menu



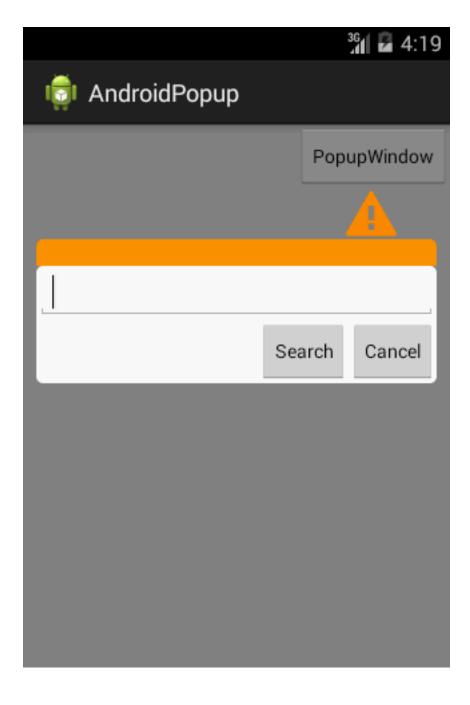
```
final Button button1 = (Button)findViewById(R.id.button1);
button1.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        PopupMenu popupMenu = new PopupMenu(
                                 MainActivity.this, button1);
        popupMenu.getMenuInflater().inflate(
                           R.menu.popup_menu,
                           popupMenu.getMenu());
        popupMenu.show();
                                                           18
```

# **Menu: Popup Window**



```
final Button btnPopupWindow =
                      (Button)findViewById(R.id.btnPopupWindow);
btnPopupWindow.setOnClickListener(new View.OnClickListener() {
    @Override
    public void onClick(View v) {
        PopupWindow popupWindow = new PopupWindow(MainActivity.this);
        View popup content = getLayoutInflater().inflate(
                                     R.layout.popup_window, null);
        popupWindow.setContentView(popup content);
        Drawable transparentDrawable = new ColorDrawable(
                                            Color.TRANSPARENT);
        popupWindow.setBackgroundDrawable(transparentDrawable);
        popupWindow.showAsDropDown(btnPopupWindow);
```

## **Exercise 02**



#### References

- <a href="https://guides.codepath.com/android/Menus-and-Popups">https://guides.codepath.com/android/Menus-and-Popups</a>
- <a href="https://developer.android.com/reference/android/sup">https://developer.android.com/reference/android/sup</a>
  <a href="port/v7/app/ActionBar.html">port/v7/app/ActionBar.html</a>