User Interface (2)

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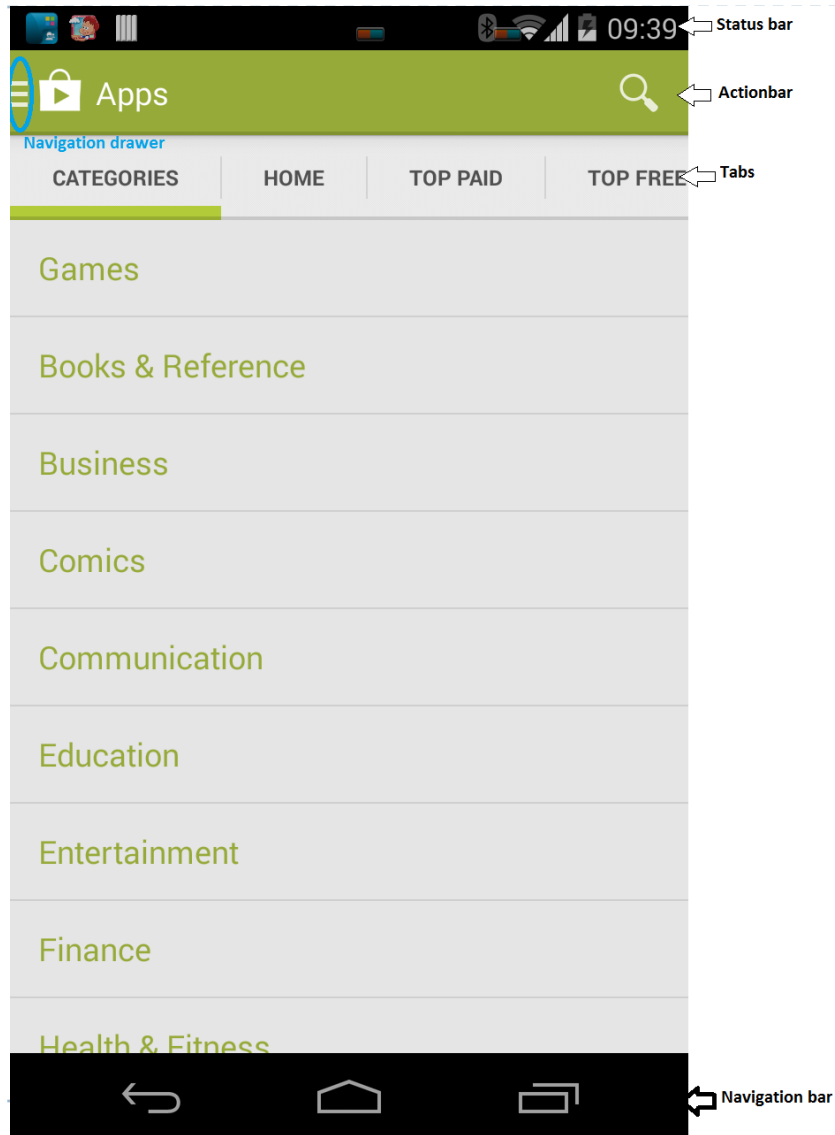
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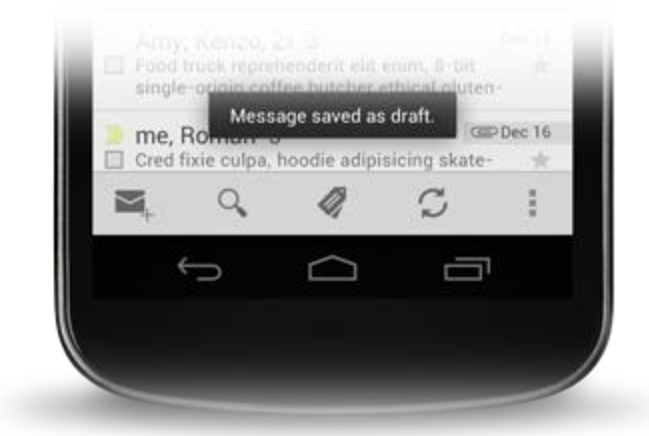http://anttek.com

Outline

1. Toast

2. Notification

3. Dialog

4. Menu

5. Action Bar

6. Settings

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Overview

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Toast

▶ Show a short message without block current UI

▶ Context context = getApplicationContext();
    CharSequence text = "Mesasge saved as draft";
    int duration = Toast.LENGTH_SHORT;
    Toast toast = Toast.makeText(context, text, duration);
    toast.show();

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Notification

▸ Show information on notification bar

NotificationCompat.Builder mBuilder = **new NotificationCompat.Builder(**

this).setSmallIcon(R.drawable.*ic_launcher)*

 .setContentTitle("Super Note")

 .setContentText("Notes are synced with cloud");

// Creates an explicit intent for an Activity in your app

Intent resultIntent = **new Intent(this, MainActivity.class);**

PendingIntent resultPendingIntent = PendingIntent.*getActivity(getApplicationContext(), 0, resultIntent, 0);*

mBuilder.setContentIntent(resultPendingIntent);

NotificationManager nm = (NotificationManager) getSystemService(Context.*NOTIFICATION_SERVICE);*

// mId allows you to update the notification later on.

nm.notify(1, mBuilder.build());

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Dialog

▸ A small window that prompts the user to make a decision or enter additional information

```
AlertDialog.Builder builder = new AlertDialog.Builder(this);
builder.setTitle("Super Note");
builder.setMessage("Do you really want to delete this note?");
builder.setPositiveButton("OK",
        new DialogInterface.OnClickListener() {
    @Override
    public void onClick(DialogInterface dialog, int which) {
            //delete noet
    }
});
builder.setNegativeButton("Cancel",
new DialogInterface.OnClickListener() {
    @Override
    public void onClick(DialogInterface dialog, int which) {
            dialog.dismiss();
    }
});
builder.show();
```

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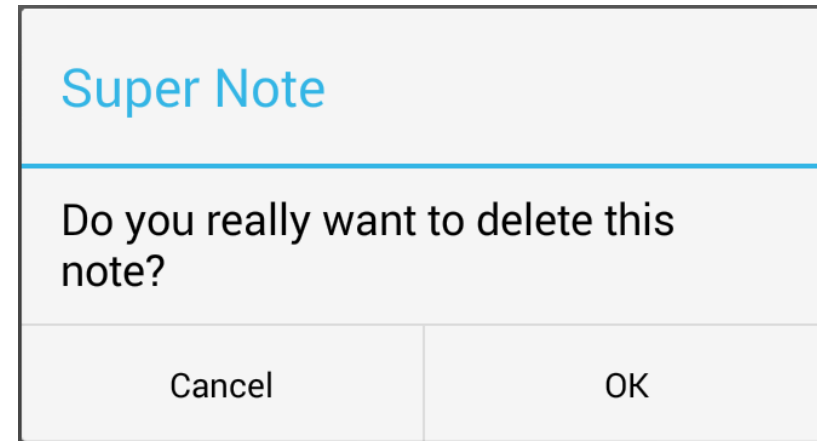
Menu

- Menu
  - Option menu & actionbar
  - Contextual menu
  - Popup menu
- Define in XML

```xml
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
      android:id="@+id/action_new_note"
      android:icon="@android:drawable/ic_menu_add"
      android:orderInCategory="100"
      android:title="@string/action_new_note"
      app:showAsAction="always"/>
    <item
      android:id="@+id/action_settings"
      android:orderInCategory="100"
      android:title="@string/action_settings"
      app:showAsAction="never"/>
</menu>
```
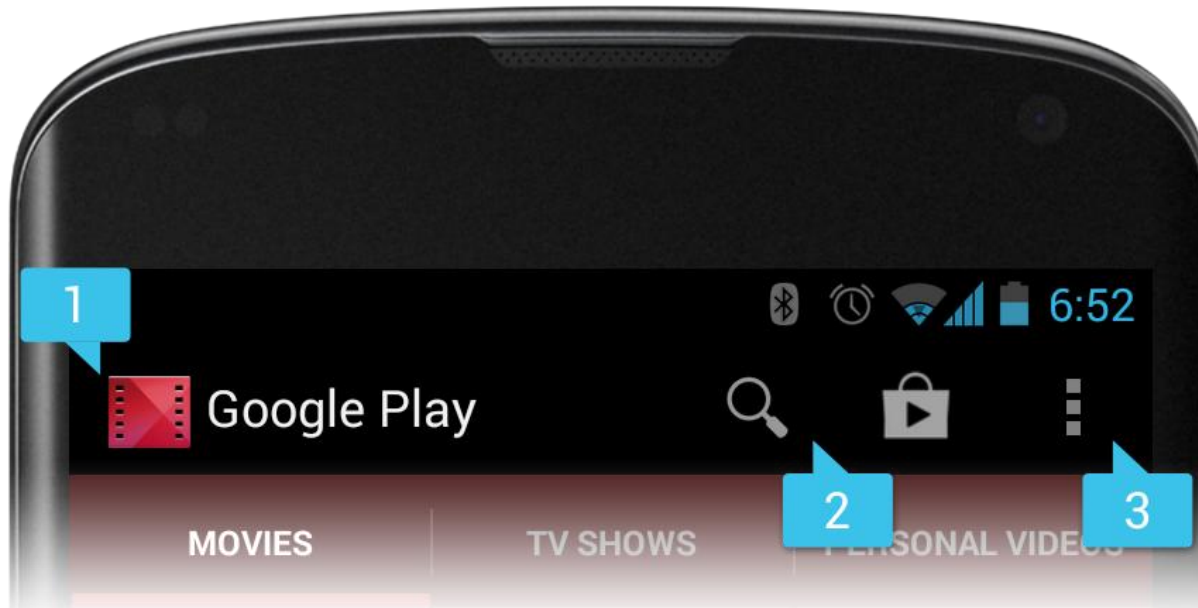
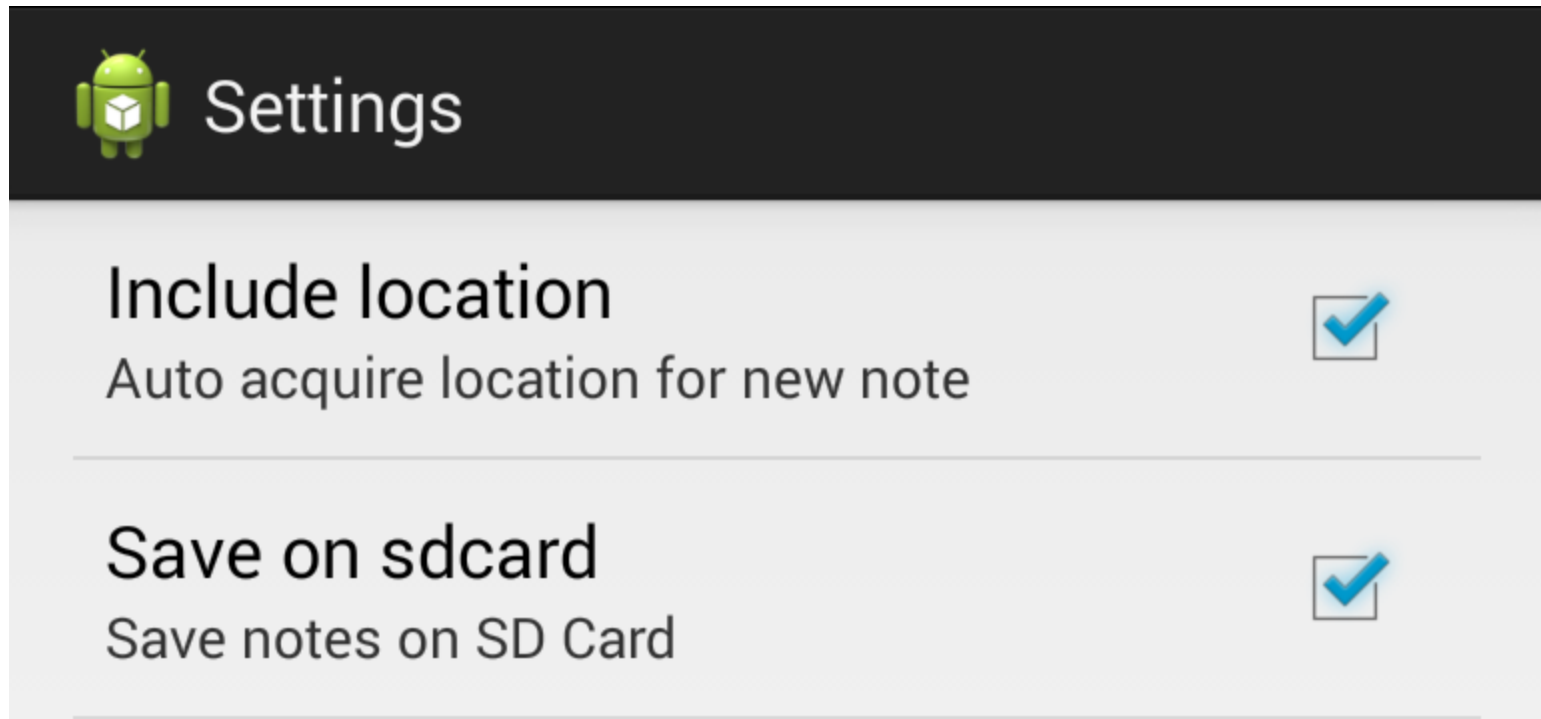Le Duc Bao – bao.le@anttek.com

Menu

```java
public class MenuActivity extends Activity {
    @Override
    public boolean onCreateOptionsMenu(Menu menu) {
        MenuInflater inflater = getMenuInflater();
        inflater.inflate(R.menu.note_menu, menu);
        return true;
    }
    @Override
    public boolean onOptionsItemSelected(MenuItem item) {
        // Handle item selection
        switch (item.getItemId()) {
            case R.id.action_new_note:
                newNote();
                return true;
            case R.id.action_settings:
                showSettings();
                return true;
            default:
                return super.onOptionsItemSelected(item);
        }
    }
}
```

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Actionbar

▶ [1] app icon, [2] two action items, and [3] action overflow.

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Settings

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Settings

▸ Define in XML

```
<PreferenceScreen xmlns:android="http://schemas.android.com/apk/res/android" >
<CheckBoxPreference android:defaultValue="true" android:key="include_location"
    android:summary="Auto acquire location for new note"
    android:title="Include location" />
  <CheckBoxPreference android:defaultValue="true" android:key="save_on_sdcard"
    android:summary="Save notes on SD Card"
    android:title="Save on sdcard" />
</PreferenceScreen>
```

▸ Java code

```
public class SettingsActivity extends PreferenceActivity {
    @Override
    public void onCreate(Bundle savedInstanceState) {
            super.onCreate(savedInstanceState);
            addPreferencesFromResource(R.xml.settings);
    }
}
```

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Reference

- http://developer.android.com/guide/topics/ui/index.html

- http://developer.android.com/guide/topics/ui/declaring-layout.html

- http://developer.android.com/guide/topics/ui/themes.html

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- http://mobile.tutsplus.com/series/android-user-interface-design/

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