### DO WHAT THE FUCK YOU WANT

# Telephony API Packages (12.10)

android.telephony.TelephonyManager

### SQLite Command to View All Tables

inside the SQLite Command Line type:

.tables

## SQLiteQueryBuilder with it's Public Methods

SQLiteQueryBuilder to build query without knowing the query. SQLiteQueryBuilder.setTables(string tables) to declare the tables, multiple can be mentioned. to create table, use only raw sql (CREATE TABLE bleh bleh)

### **Content Providers**

Use Custom content providers to share data between different apps, as you can't do that without this. the code is fucking long i dont want to write it, ty. (Page 6.22)

### **Shared Preferences**

Store a key value data into an xml files usually stored in

```
/data/data/YOUR_PACKAGE_NAME/shared_prefs/YOUR_PREFS_NAME.xml
```

the code to edit and create (if not exists) shared preferences is

```
String myPrefs = "myPrefs";
SharedPreferences sp = getSharedPreferences(myPrefs, Activity.MODE_PRIVATE);
ShatedPreferences.editor edit = sp.edit();
edit.putInt("key", value);
edit.commit();
```

to retrieve is declare the above sharedpref object and then write:

```
String dataFromSharedPrefs = sp.getInt("key",specifyDefaultValue);
```

## **Testing Consideration**

If you are not stupid enough to develop an ugly ass android apps, takes this into consideration:

- 1. **Change in Orientation**, users can flip the phone into whatever the fucks they want, so please ensure your apps:
  - The UI is redrawn quickly when user changes orientation

#### not a virus

- o The apps maintain its state during orientation changes and does not lose user input that have been entered
- 2. **Change in the device's configuration**, check whether the apps can adapt, improvise, overcome the changes within the device configuration.
- 3. **Battery Life**, Make sure your apps only uses minimal amounts of battery and Runs smoothly inside **KAPTEN's** phones for at least 2000 Hours
- 4. **Dependence on external resources**, If your apps uses external resources such as internet connection, gps, etc. you should test your apps behavior and performance in the absence of these resources (e.g notifying the user that their internet is disconnected), so your apps can be used for poor fucks man.

### **EULA**

Eula is End User License Agreement, it must be added before you publish your apps in store. Steps Before:

• Testing the app on actual devices

After:

• Add Licensing Support

Further Reading: Page 15.9

## Android Manifest (Read Code Comment)

```
<?xml version="1.0" encoding="utf-8"?>
<!-- Package name-->
<manifest
   xmlns:android="http://schemas.android.com/apk/res/android"
   android:versionCode="1"
   android:versionName="1.0"
   package="com.example.myapp">
   <!--Permission-->
   <uses-permission android:name="android.permission.SEND_SMS"/>
   <uses-sdk android:minSdkVersion="15" android:targetSdkVersion="26" />
    <application
       android:allowBackup="true"
        android:icon="@mipmap/ic_launcher"
        android:roundIcon="@mipmap/ic launcher round"
        android:label="@string/app_name"
        android:supportsRtl="true"
        android:theme="@style/AppTheme">
       <!-- Activity -->
        <activity android:name=".MainActivity">
            <intent-filter>
                <!--Intent Filter-->
                <action android:name="android.intent.action.MAIN" />
                <category android:name="android.intent.category.LAUNCHER" />
            </intent-filter>
       </activity>
        <activity
            android:name=".DisplayMessageActivity"
            android:parentActivityName=".MainActivity" />
    </application>
</manifest>
```

#### Codes inside Application Tag:

- <activity> for each subclass of Activity.
- <service> for each subclass of Service.
- <receiver> for each subclass of BroadcastReceiver.
- for each subclass of ContentProvider.

# **Activity Lifecycle**

- **onCreate** called when activity is first created.
- **onStart** called when activity is becoming visible to the user.
- **onResume** called when activity will start interacting with the user.
- **onPause** called when activity is not visible to the user.
- **onStop** called when activity is no longer visible to the user.
- **onRestart** called after your activity is stopped, prior to start.

• onDestroy called before the activity is destroyed.

#### Intent

- **Implicit Intents** start a component from another apps or from system (like dialing a call, opening xnxx.com in the browser, etc.)
- **Explicit Intents** start a component from our apps, typically starting another activity.

Intent Example:

#### **Implicit**

```
Intent intent=new Intent(Intent.ACTION_VIEW);
intent.setData(Uri.parse("https://www.hentaimama.com"));
startActivity(intent);
```

#### **Explicit**

```
Intent i = new Intent(getApplicationContext(), ActivityTwo.class);
startActivity(i);
```

## **Activity Phase**

See Activity Lifecycle, pretty much the fucking same.

# **DDMS Perspective**

DDMS stands for Dalvik Debug Monitor Server. It gives the wide array of debugging features:

- 1. Port forwarding services
- 2. Screen capture
- 3. Thread and heap information
- 4. Network traffic tracking
- 5. Location data spoofing

## Static Files As resources using Android.content.res.Resources

Used when you want to include large or pre existing files as a resouce for your app instead of a database.

usage:

```
Resources myRes = getResources();
InputStream files = myRes.openRawResource(R.raw.myfilename);
```

### **ADB**

Android Debug Bridge, allow to interacts with device/emulator using command line

```
Command: adb [-d|-e|-s <phone serial>] <command>
example: adb devices, adb start-server, adb kill-server
```

### **Progress Dialog**

We can display the android progress bar dialog box to display the status of work being done e.g. downloading porn, analyzing status of work etc.

usage:

```
ProgressDialog progressBar = new ProgressDialog(this);
progressBar.setCancelable(true);//you can cancel it by pressing back button
progressBar.setMessage("Porn downloading (°))...");
progressBar.setProgressStyle(ProgressDialog.STYLE_HORIZONTAL);
progressBar.setProgress(0);//initially progress is 0
progressBar.setMax(100);//sets the maximum value 100
progressBar.show();//displays the progress bar
```

#### SMS and Call with Intent ™

Snip Read it yourself at Page 12.3

## **Android Building Block**

Too General, Read page 2.15

### **Ordered Broadcasts**

Ordered Broadcast is the type of broadcast which is sent in a synchronous manner i.e. one by one to each listener. (Broadcast Definition see Page 8.15)

example:

# Bitmap, Paint, Canvas, View

- Canvas (Package android.graphics.Canvas) represents a surface where you can draw shapes and images
- Bitmap (Package android.graphics.Bitmap) When you create Canvas object it is necessary to create atleast one Bitmap Object, which holds the pixel data for the graphics.
- Paint (Package android.graphics.Paint ) provides information about the style & colors for drawing a symbols, text, and graphics

• view (Package android.view.View) simple graphics and animation that does not requires high framerate. Must extend this class to draw crap ex: class Panel extends View

### Layout Inflater

Get an Element from Another Layout XML.

When you use a custom view in a **ListView** you must define the row layout. You create an xml where you place android widgets and then in the adapter's code you have to do something like this:

```
public MyAdapter(Context context, List<MyObject> objects) extends ArrayAdapter {
  super(context, 1, objects);
 /* We get the inflator in the constructor */
 mInf = (LayoutInflater) context.getSystemService(Context.LAYOUT INFLATER SERVICE);
@Override
public View getView(int position, View convertView, ViewGroup parent) {
 View view;
 /* We inflate the xml which gives us a view */
  view = mInflater.inflate(R.layout.my_list_custom_row, parent, false);
 /* Get the item in the adapter */
 MyObject myObject = getItem(position);
 /* Get the widget with id name which is defined in the xml of the row */
 TextView name = (TextView) view.findViewById(R.id.name);
 /* Populate the row's xml with info from the item */
 name.setText(myObject.getName());
 /* Return the generated view */
  return view;
```

### LocationManager.NETWORK\_PROVIDERS

Represents the name of the network location provider, point the location of cell towers and/or wi-fi. Results are retrieved by means of network lookup. The providers Requires the <a href="mailto:android.permission.ACCESS\_COARSE\_LOCATION">android.permission.ACCESS\_FINE.LOCATION</a>.

Other Options are LocationManager.GPS\_PROVIDERS, it uses GPS for providing location data.

#### **TOAST**

to notify user, takes only small amount of screen, and will fade eventually (Package android.widget.Toast ) example:

## Making an instance of TelephonyManager

```
public abstract Object getSystemService(String name)
```

### Content Provider in AndroidManifest.XML

Wrap it inside <application> tag

```
<provider
    android:name=".provider.LentItemsProvider"
    android:authorities="de.openminds.samples.cpsample.lentitems"
    android:exported="true"
    android:grantUriPermissions="true"
    android:label="LentItemsProvider"
    android:readPermission="de.openminds.samples.cpsample.lentitems.READ"
    android:writePermission="de.openminds.samples.cpsample.lentitems.WRITE" />
```

### **Custom Provider**

After creating the custom provider, register it in AndroidManifest.xml.

```
< android:name="myCustomProvider"
    android:authorities="com.DatabaseDemo.provider.myCustomProvider">
```

#### **View Listener**

- onClick() From View.OnClickListener. This is called when the user either touches the item (when in touch mode), or focuses upon the item with the navigation-keys or trackball and presses the suitable "enter" key or presses down on the trackball.
- onLongClick() From View.OnLongClickListener. This is called when the user either touches and holds the item (when in touch mode), or focuses upon the item with the navigation-keys or trackball and presses and holds the suitable "enter" key or presses and holds down on the trackball (for one second).
- onFocusChange() From View.OnFocusChangeListener. This is called when the user navigates onto or away from the item, using the navigation-keys or trackball.
- onKey() From View.OnKeyListener. This is called when the user is focused on the item and presses or releases a hardware key on the device.
- onTouch() From View.OnTouchListener. This is called when the user performs an action qualified as a touch event, including a press, a release, or any movement gesture on the screen (within the bounds of the item).
- onCreateContextMenu() From View.OnCreateContextMenuListener. This is called when a Context Menu is being built (as the result of a sustained "long click").

### **EXIT SHELL LINUX**

```
exit/stop command use ctrl+d exit shell use command exit

or find the pid and then kill it ps -ax | grep shell_name and pkill -9 PID_of_shell
```

## **Testing Tools in Android**

ADT - Android Debugging Tools Consists of these tools :

- ADB Android Debug Bridge, Versatile command line tools allows to communicate with an android-enabled devices/emulator
- DDMS Dalvik Debug Monitor Server, GUI Tools allows to communicate with android
- Device / AVD, Android Virtual Devices, Simulate how your apps will be running and behave on a real device.

## **Media Players**

Method	Description
public void setDataSource(String path)	sets the data source (file path or http url) to use.
public void prepare()	prepares the player for playback synchronously.
public void start()	it starts or resumes the playback.
public void stop()	it stops the playback.
public void pause()	it pauses the playback.
public boolean isPlaying()	checks if media player is playing.
public void seekTo(int millis)	seeks to specified time in miliseconds.
public void setLooping(boolean looping)	sets the player for looping or non-looping.
public boolean isLooping()	checks if the player is looping or non-looping.
public void selectTrack(int index)	it selects a track for the specified index.
public int getCurrentPosition()	returns the current playback position.
public int getDuration()	returns duration of the file.
public void setVolume(float leftVolume,float rightVolume)	sets the volume on this player.

### **Location Based Service**

LBS provide information about your device's current location. LBS Get location data from these location providers.

- GPS
- Cell Tower Triangulation
- Public Wi-Fi Hotspots

## Logs

- Log.e(String, String) (error)
- Log.w(String, String) (warning)
- Log.i(String, String) (information)
- Log.d(String, String) (debug)
- Log.v(String, String) (verbose)

## Resource Manager, Notification Manager, Activity Manager

- Resource Manager: Manage Localized Resources (e.g Strings, Graphics, Layout, etc.)
- Notif Manager; Enable Apps to Display Messages in the Notif Bar
- Activity Manager : Manages activities Local Files

# Building Block of an Android Application

- Activity is a USER INTERFACE of an Android Apps
- Services is an app that runs in the background
- **Content Providers** allow apps to retrieve, modify or share data from another source, but require permission from the content provider.
- Broadcast Receivers is a component that respond to a system event, such as the screen being turned off, low battery, etc.

## **Activity States**

- Runnning The activity is visible to the user on the screen and user can interact with the activity
- Paused Another activity is visible to the user.
- Stopped The activity is completely obscured by another activity

## **Dialog Subclass**

- AlertDialog create an alert dialog, can contain up to three buttons, and/or a list of selectable items with radio/checkbox
- ProgressDialog create a progress loading dialog, extended from Alert dialog, contains same feature as it.
- DatePickerDialog allow user to pick a date
- TimePickerDialog allow user to pick a time

## onDestroy() and stopSelf()

Call stopSelf() to stop a Service. After you call it, the Android Framework will call onDestroy() method automatically.

## **Proprietary means Closed Source**

- Android is non-proprietary (Uses GNU-GPL v2 License)
- Symbian, iOs, and BBOS is a Proprietary Software

#### **Test-case**

You need to extend the testing junit class with involved Activities in order to create test case class, also import android test

NameClass: MainActivityTest

Involved: MainActivity

Using TestClass: ITestYourAss

```
package com.aweawe.testing;
import com.awewe;
import android.test.ITestYourAss;
public class MainActivityTest extends ITestYourAss<MainActivity> {
}
```

# SQLiteQueryBuilder create table and columns

note: SQLLiteQueryBuilder is used to GET data, And show it to E.g: tables, listview, etc. not to Create Tables usage:

```
SQLiteQueryBuilder builder = new SQLiteQueryBuilder(); //instance creation
builder.setTables("YourTableThatWantsToBeShowed");
  //equivalent as : SELECT * FROM YourTableThatWantsToBeShowed

String columns[] = new String[] {"column1","column2"};
  //equivalent as : SELECT column1, column2 FROM YourTableThatWantsToBeShowed
  cursor c = sqlBuilder.query(DBCon, columns, null, null, null);
```

show all query

```
public Cursor queryAll(Context context, Uri uri, String[] projection, String selection,
String[] selectionArgs, String sortOrder) {
    SQLiteQueryBuilder queryBuilder = new SQLiteQueryBuilder();
    queryBuilder.setTables(getTableName());

    Cursor cursor = queryBuilder.query(mDB, projection, selection, selectionArgs, null,
null, sortOrder);
    cursor.setNotificationUri(context.getContentResolver(), uri);
    return cursor;
}
```

## Pages that is not covered on the rangkuman

- Content Provider Pg. 6.22
- Intent for Dialing and Sending SMS Pg. 12.3 12.10
- SQLiteQueryBuilder for Creating Table and Column Unknown Pages
- Telephony Calls Pg. 12.10

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