Android-er

WEDNESDAY, JULY 14, 2010

Save file to SD Card

In the previous exercises "Load ImageView with bitmap from internet" and "Generate QR code using Google Chart API", images were downloaded from internet for display only. Here, we are going to save the download image to SD Card.

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The path to SD Card can be retrieved using
Environment.getExternalStorageDirectory();

Then compress and write to SD Card by:
outStream = new FileOutputStream(file);
bm.compress(Bitmap.CompressFormat.PNG, 100, outStream);
outStream.flush();
outStream.close();

In order to premit the App to access internet and write to SD Card, we need **"android.permission.INTERNET"** and **"android.permission.WRITE_EXTERNAL_STORAGE"**.
Modify AndroidManifest.xml

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    package="com.exercise.AndroidWebImage"
    android:versionCode="1"
    android:versionName="1.0">
  <application android:icon="@drawable/icon" android:label="@string/app
_name">
      <activity android:name=".AndroidWebImage"
                android:label="@string/app_name">
          <intent-filter>
              <action android:name="android.intent.action.MAIN" />
              <category android:name="android.intent.category.LAUNCHER"
 />
          </intent-filter>
      </activity>

  </application>
  <uses-sdk android:minSdkVersion="4" />
<uses-permission android:name="android.permission.INTERNET" />
<uses-permission android:name="android.permission.WRITE_EXTERNAL_STORAG
```

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```
E" />
</manifest>
```

main.xml

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android
"
  android:orientation="vertical"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
  >
<TextView
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="@string/hello"
  />
<Button
  android:id="@+id/save"
  android:layout_width="fill_parent"
  android:layout_height="wrap_content"
  android:text="Save"
  />
<ImageView
  android:id="@+id/image"
  android:scaleType="center"
  android:layout_width="fill_parent"
  android:layout_height="fill_parent"
/>
</LinearLayout>
```

AndroidWebImage.java

```
package com.exercise.AndroidWebImage;

import java.io.File;
```


Android MediaPlayer

More on Generate a mirror image using Matrix.postC...

Generate a mirror image using Matrix.postConcat()

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Rotate bitmap image, using Matrix

Scale bitmap image, using Matrix

Load bitmap file from SD Card

Save file to SD Card

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android.graphics.Color

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```
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import java.io.InputStream;
import java.io.OutputStream;
import java.net.HttpURLConnection;
import java.net.URL;
import java.net.URLConnection;

import android.app.Activity;
import android.graphics.Bitmap;
import android.graphics.BitmapFactory;
import android.os.Bundle;
import android.os.Environment;
import android.view.View;
import android.widget.Button;
import android.widget.ImageView;
import android.widget.Toast;

public class AndroidWebImage extends Activity {

String image_URL=
 "http://chart.apis.google.com/chart?chs=200x200&cht=qr&chl=http%3A%2F%
2Fandroid-er.blogspot.com%2F";

String extStorageDirectory;

Bitmap bm;

  /** Called when the activity is first created. */
  @Override
  public void onCreate(Bundle savedInstanceState) {
      super.onCreate(savedInstanceState);
      setContentView(R.layout.main);

      Button buttonSave = (Button)findViewById(R.id.save);

      ImageView bmImage = (ImageView)findViewById(R.id.image);
```


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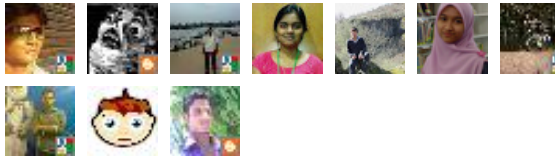

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```
   BitmapFactory.Options bmOptions;
   bmOptions = new BitmapFactory.Options();
   bmOptions.inSampleSize = 1;
   bm = LoadImage(image_URL, bmOptions);
   bmImage.setImageBitmap(bm);

   extStorageDirectory = Environment.getExternalStorageDirectory().toSt
ring();

   buttonSave.setText("Save to " + extStorageDirectory + "/qr.PNG");
   buttonSave.setOnClickListener(buttonSaveOnClickListener);
  }

  private Bitmap LoadImage(String URL, BitmapFactory.Options options)
  {
   Bitmap bitmap = null;
   InputStream in = null;
      try {
          in = OpenHttpConnection(URL);
          bitmap = BitmapFactory.decodeStream(in, null, options);
          in.close();
      } catch (IOException e1) {
      }
      return bitmap;
  }

private InputStream OpenHttpConnection(String strURL) throws IOExceptio
n{
 InputStream inputStream = null;
 URL url = new URL(strURL);
 URLConnection conn = url.openConnection();

 try{
  HttpURLConnection httpConn = (HttpURLConnection)conn;
  httpConn.setRequestMethod("GET");
  httpConn.connect();

  if (httpConn.getResponseCode() == HttpURLConnection.HTTP_OK) {
   inputStream = httpConn.getInputStream();
```


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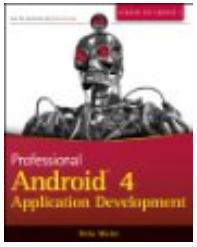

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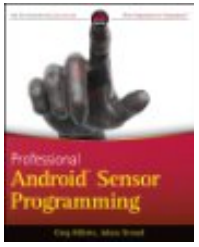

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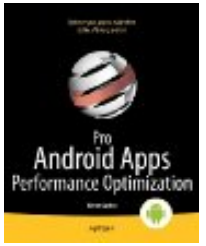
```
  }
 }
 catch (Exception ex)
 {
 }
 return inputStream;
}

Button.OnClickListener buttonSaveOnClickListener
 = new Button.OnClickListener(){

  @Override
  public void onClick(View arg0) {
   // TODO Auto-generated method stub
   OutputStream outStream = null;
   File file = new File(extStorageDirectory, "er.PNG");
   try {
    outStream = new FileOutputStream(file);
    bm.compress(Bitmap.CompressFormat.PNG, 100, outStream);
    outStream.flush();
    outStream.close();

    Toast.makeText(AndroidWebImage.this, "Saved", Toast.LENGTH_LONG).sh
ow();

   } catch (FileNotFoundException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
    Toast.makeText(AndroidWebImage.this, e.toString(), Toast.LENGTH_LON
G).show();
   } catch (IOException e) {
    // TODO Auto-generated catch block
    e.printStackTrace();
    Toast.makeText(AndroidWebImage.this, e.toString(), Toast.LENGTH_LON
G).show();
   }

  }
```

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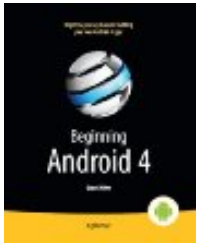

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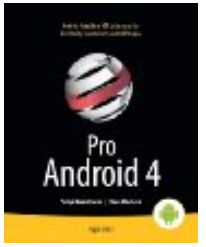

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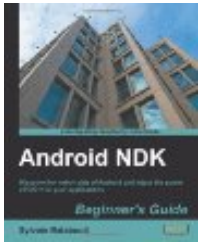

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```
};

}
```

Download the files.

next: Load bitmap file from SD Card

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6 comments:

siva said...

Thanks to this blog,i am using **Save file to SD card** code from this blog,but this code run and store file in sd card at first time,another time i run this code,did not store file in sd card.
Thanks

September 15, 2010 7:16 AM

Android Er said...

hi siva,

Are you using the same file name?

May be you have to handle the Exception case.

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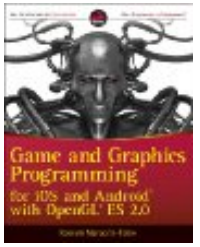

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September 20, 2010 1:27 PM

thanuja said...

Your code is really helpful... keep going....!

November 18, 2010 6:25 PM

Neon Zebra said...

At last, a collection of examples that are extremely well written and comprehensible! I've read many Android books and they're too difficult for the beginner and tend not to provide useful functions.

Thank you greatly for your code and work, it's invaluable and greatly appreciated. :D

January 23, 2011 9:50 AM

Numair Qadir said...

hi.. the code was very helpful..can you please help me, if i want to save the image to sdcard call from drawable folder.

March 27, 2012 11:44 AM

Lucas Cerqueira said...

That helped me, thank you!

July 30, 2012 1:26 PM

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