**Android**

**ImageDownloader>src>MainActivity.java**

**package** com.example.imagedownloader;

**import** java.io.IOException;

**import** java.io.InputStream;

**import** java.net.HttpURLConnection;

**import** java.net.MalformedURLException;

**import** java.net.URL;

**import** android.app.Activity;

**import** android.graphics.Bitmap;

**import** android.graphics.BitmapFactory;

**import** android.os.AsyncTask;

**import** android.os.Bundle;

**import** android.util.Log;

**import** android.view.View;

**import** android.view.View.OnClickListener;

**import** android.widget.Button;

**import** android.widget.ImageView;

**import** android.widget.ProgressBar;

**public** **class** MainActivity **extends** Activity **implements** OnClickListener {

**private** Button btnDownloadData;

**private** ImageView sampleImage;

**private** ProgressBar progressBar;

@Override

**protected** **void** onCreate(Bundle savedInstanceState) {

**super**.onCreate(savedInstanceState);

setContentView(R.layout.*activity\_main*);

btnDownloadData = (Button) findViewById(R.id.*btnDownloadData*);

sampleImage = (ImageView) findViewById(R.id.*image*);

progressBar = (ProgressBar) findViewById(R.id.*progress*);

btnDownloadData.setOnClickListener(**this**);

}

@Override

**public** **void** onClick(View v) {

progressBar.setVisibility(View.*INVISIBLE*);

sampleImage.setVisibility(View.*INVISIBLE*);

**new** DownloadTask()

.execute("http://cdn3.pcadvisor.co.uk/cmsdata/reviews/3475212/iPad\_Air\_vs\_iPad\_mini\_2\_3.jpg");

}

**class** DownloadTask **extends** AsyncTask<String, Void, Bitmap> {

@Override

**protected** **void** onPreExecute() {

progressBar.setVisibility(View.*VISIBLE*);

**super**.onPreExecute();

}

@Override

**protected** Bitmap doInBackground(String... params) {

**try** {

URL url = **new** URL(params[0]);

HttpURLConnection connection = (HttpURLConnection) url

.openConnection();

connection.connect();

Log.*i*("vipul",

"Response Code is " + connection.getResponseCode());

InputStream inputStream = connection.getInputStream();

**return** BitmapFactory.*decodeStream*(inputStream);

} **catch** (MalformedURLException e) {

e.printStackTrace();

} **catch** (IOException e) {

e.printStackTrace();

}

**return** **null**;

}

@Override

**protected** **void** onPostExecute(Bitmap result) {

**super**.onPostExecute(result);

sampleImage.setImageBitmap(result);

sampleImage.setVisibility(View.*VISIBLE*);

progressBar.setVisibility(View.*INVISIBLE*);

}

}

}

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**ImageDownloader>res>layout>activity\_main.xml**

<RelativeLayout xmlns:android=*"http://schemas.android.com/apk/res/android"*

xmlns:tools=*"http://schemas.android.com/tools"*

android:layout\_width=*"match\_parent"*

android:layout\_height=*"match\_parent"*

tools:context=*".MainActivity"* >

<Button

android:id=*"@+id/btnDownloadData"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_alignParentBottom=*"true"*

android:layout\_centerHorizontal=*"true"*

android:text=*"Download Data"* />

<ImageView

android:id=*"@+id/image"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_centerInParent=*"true"*

android:visibility=*"invisible"* />

<ProgressBar

android:id=*"@+id/progress"*

android:layout\_width=*"wrap\_content"*

android:layout\_height=*"wrap\_content"*

android:layout\_centerInParent=*"true"*

android:visibility=*"invisible"* />

</RelativeLayout>

**ImageDownloader>AndroidManifest.xml**

**<uses-permission android:name=*"android.permission.INTERNET"*/>**