**MOBILE APPLICATION DEVELOPMENT**

**(MAD)**

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ASSIGNMENT NO.10

# Assignment Name :Develop an application that makes use of RSS Feed

Code For Manifest File :

# <?*xml version*="1.0" *encoding*="utf-8"?>

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

# *package*="com.example.rss\_feed">

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

# <application

# *android:allowBackup*="true"

# *android:icon*="@mipmap/ic\_launcher"

# *android:label*="@string/app\_name"

# *android:roundIcon*="@mipmap/ic\_launcher\_round"

# *android:supportsRtl*="true"

# *android:theme*="@style/Theme.Rss\_feed">

# <activity *android:name*=".MainActivity">

# <intent-filter>

# <action *android:name*="android.intent.action.MAIN" />

# 

# <category *android:name*="android.intent.category.LAUNCHER" />

# </intent-filter>

# </activity>

# </application>

# </manifest>

# 

Code For XMl File : (activity\_main.xml)

<?*xml version*="1.0" *encoding*="utf-8"?>

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

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

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

*android:orientation*="vertical" >

<ListView

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

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

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

</LinearLayout>

Code For JAVA File : (MainActivity.java)

*package* com.example.rss\_feed;

*import* android.app.ListActivity;

*import* android.content.Intent;

*import* android.net.Uri;

*import* android.os.AsyncTask;

*import* android.os.Bundle;

*import* android.view.View;

*import* android.widget.ArrayAdapter;

*import* android.widget.ListView;

*import* org.xmlpull.v1.*XmlPullParser*;

*import* org.xmlpull.v1.XmlPullParserException;

*import* org.xmlpull.v1.XmlPullParserFactory;

*import* java.io.IOException;

*import* java.io.InputStream;

*import* java.net.MalformedURLException;

*import* java.net.URL;

*import* java.util.ArrayList;

*import* java.util.*List*;

*public class* MainActivity *extends* ListActivity

{

*List* headlines;

*List* links;

@Override

*protected void* onCreate(Bundle savedInstanceState)

{

*super*.onCreate(savedInstanceState);

*new* MyAsyncTask().execute();

}

*class* MyAsyncTask *extends* AsyncTask<Object,Void,ArrayAdapter>

{

@Override

*protected* ArrayAdapter doInBackground(Object[] params)

{

headlines = *new* ArrayList();

links = *new* ArrayList();

*try*

{

URL url = *new* URL("https://news.google.com/rss");

XmlPullParserFactory factory = XmlPullParserFactory.*newInstance*();

factory.setNamespaceAware(*false*);

*XmlPullParser* xpp = factory.newPullParser();

*// We will get the XML from an input stream*

xpp.setInput(getInputStream(url), "UTF\_8");

*boolean* insideItem = *false*;

*// Returns the type of current event: START\_TAG, END\_TAG, etc..*

*int* eventType = xpp.getEventType();

*while* (eventType != *XmlPullParser*.*END\_DOCUMENT*)

{

*if* (eventType == *XmlPullParser*.*START\_TAG*)

{

*if* (xpp.getName().equalsIgnoreCase("item"))

{

insideItem = *true*;

}

*else if* (xpp.getName().equalsIgnoreCase("title"))

{

*if* (insideItem)

headlines.add(xpp.nextText()); *//extract the headline*

}

*else if* (xpp.getName().equalsIgnoreCase("link"))

{

*if* (insideItem)

links.add(xpp.nextText()); *//extract the link of article*

}

}

*else if*(eventType==*XmlPullParser*.*END\_TAG* && xpp.getName().equalsIgnoreCase("item"))

{

insideItem=*false*;

}

eventType = xpp.next(); *//move to next element*

}

}

*catch* (MalformedURLException e)

{

e.printStackTrace();

}

*catch* (XmlPullParserException e)

{

e.printStackTrace();

}

*catch* (IOException e)

{

e.printStackTrace();

}

*return null*;

}

*protected void* onPostExecute(ArrayAdapter adapter)

{

adapter = *new* ArrayAdapter(MainActivity.*this*, android.R.layout.*simple\_list\_item\_1*, headlines);

setListAdapter(adapter); *//connect this adapter to a ListView*

}

}

@Override

*protected void* onListItemClick(ListView l, View v, *int* position, *long* id)

{

Uri uri = Uri.*parse*((links.get(position)).toString());

Intent intent = *new* Intent(Intent.*ACTION\_VIEW*, uri);

startActivity(intent);

}

*public* InputStream getInputStream(URL url)

{

*try*

{

*return* url.openConnection().getInputStream();

}

*catch* (IOException e)

{

*return null*;

}

}

}

SCREENSHOTS :

 