**RSS CỰC MẠNH**

**Các bước đầu tiên thì như bài word của cô nha**

**B1. Tạo Activity hiển thị danh sách phân loại**

Video

Lưu ý cấp quyền:

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

<uses-permission android:name=*"android.permission.ACCESS\_NETWORK\_STATE"*/>

**Trong main code như sau:**

**public class** MainActivity **extends** AppCompatActivity {  
 String[] **ten\_loai** = {**"thể thao"**, **"o to xe may"**, **"cuoi"**};  
  
 String[] **rss\_loai** = {**"https://vnexpress.net/rss/the-thao.rss"**,  
 **"https://vnexpress.net/rss/oto-xe-may.rss"**,  
 **"https://vnexpress.net/rss/cuoi.rss"** };  
 ListView **lv**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **lv** = findViewById(R.id.***listView***);  
 ArrayAdapter adapter = **new** ArrayAdapter(MainActivity.**this**, android.R.layout.***simple\_list\_item\_1***, **ten\_loai**);  
 **lv**.setAdapter(adapter);  
  
  
  
 **lv**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  
 @Override  
 **public void** onItemClick(AdapterView<?> parent, View view, **int** position, **long** id) {  
 String link = **rss\_loai**[position];  
  
 Toast.*makeText*(MainActivity.**this**, **"Link: "** + **rss\_loai**[position], Toast.***LENGTH\_LONG***).show();  
 Intent z = **new** Intent(MainActivity.**this**, tintheoloai.**class**);  
 z.putExtra(**"linkcuaweb"**, **rss\_loai**[position]);  
 startActivity(z);  
 }  
 });  
  
  
 }  
  
  
}

layout main

<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".MainActivity"**>  
  
 <**ListView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/listView"**/>  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

B2. Tạo Activity hiển thị toàn bộ tin tức theo phân loại

Video

* Tạo activity để nhận địa chỉ link. Toast dữ liệu lên để xem kết quả
* **public class** tintheoloai **extends** AppCompatActivity {  
   String **diachi\_rss**;  
   ListView **lv2**;  
   @Override  
   **protected void** onCreate(Bundle savedInstanceState) {  
   **super**.onCreate(savedInstanceState);  
   setContentView(R.layout.***activity\_tintheoloai***);  
   **diachi\_rss**=getIntent().getExtras().getString(**"linkcuaweb"**);  
   Toast.*makeText*(getApplicationContext(), **diachi\_rss**, Toast.***LENGTH\_SHORT***).show();  
    
   **lv2** = findViewById(R.id.***listView2***);  
   ArrayAdapter adapter = **new** ArrayAdapter(tintheoloai.**this**, android.R.layout.***simple\_list\_item\_1***);  
   **lv2**.setAdapter(adapter);  
    
   MyAsyncTask gandulieu=**new** MyAsyncTask(tintheoloai.**this**,**diachi\_rss**,**lv2**);  
   gandulieu.execute();  
   }  
  }

layout tintheloai

*<?***xml version="1.0" encoding="utf-8"***?>*<**androidx.constraintlayout.widget.ConstraintLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 tools:context=".tintheoloai"**>  
 <**ListView  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:id="@+id/listView2"**/>  
  
</**androidx.constraintlayout.widget.ConstraintLayout**>

Tạo class Item, dựa vào xml để tạo class

**public** **class** Item {

**private** String title;

**private** String description;

**private** String link;

**private** String pubdate;

**public** String getTitle() {

**return** title;

}

**public** **void** setTitle(String title) {

**this**.title = title;

}

**public** String getDescription() {

**return** description;

}

**public** **void** setDescription(String description) {

**this**.description = description;

}

**public** String getLink() {

**return** link;

}

**public** **void** setLink(String link) {

**this**.link = link;

}

**public** String getPubdate() {

**return** pubdate;

}

**public** **void** setPubdate(String pubdate) {

**this**.pubdate = pubdate;

}

}

Tạo file MyAsyncTask, để tạo thread trong Android

**public class** MyAsyncTask **extends** AsyncTask<Void,Void,Void>  
{  
 Context **c**;  
 String **link**;  
 ArrayList<Item> **ds** = **new** ArrayList<Item>();  
 ListView **lv**;  
 String **chuoi**;  
 ArrayList<String> **list**;  
 HashMap<String,Object> **hm** = **new** HashMap<>();  
 List<HashMap<String, Object>> **ds2** = **new** ArrayList<>();  
 **public** MyAsyncTask(Context c, String link, ListView lv){  
 **this**.**c** =c;  
 **this**.**link** = link;  
 **this**.**lv** = lv;  
 }  
  
 @Override  
 **protected** Void doInBackground(Void... arg0) {  
 *//* ***TODO Auto-generated method stub* try** {  
 URL url=**new** URL(**link**);  
 URLConnection connection=url.openConnection();  
 InputStream is=connection.getInputStream();  
 **ds**=(ArrayList<Item>) MySaxParser.*xmlParser*(is);  
 **for**(**int** i=0;i<**ds**.size();i++)  
 {  
*// chuoi ="";* **chuoi**+=**ds**.get(i).getTitle()+**" "**;  
 **chuoi**+=**ds**.get(i).getPubdate()+ **"\n"**;  
*// list.add(chuoi);]* **hm**.put(**"title"**,**ds**.get(i).getTitle());  
 **hm**.put(**"description"**,**ds**.get(i).getDescription());  
 **hm**.put(**"pubdate"**,**ds**.get(i).getPubdate());  
 **ds2**.add(**hm**);  
  
 }  
  
 BufferedReader in = **new** BufferedReader(**new** InputStreamReader(is));  
 String line = **""**;  
 StringBuffer sb = **new** StringBuffer(**""**);  
 **while**((line=in.readLine())!=**null**){  
 sb.append(line);  
 }  
 Log.*d*(**"dulieu"**,sb.toString()) ;  
  
 } **catch** (Exception e) {  
 *//* ***TODO Auto-generated catch block*** e.printStackTrace();  
 }  
 **return null**;  
 }  
  
 @Override  
 **protected void** onPostExecute(Void result) {  
 *//* ***TODO Auto-generated method stub* super**.onPostExecute(result);  
*// ArrayAdapter adapter = new ArrayAdapter(c,android.R.layout.simple\_list\_item\_1,ds);  
//// lv.setAdapter(adapter);* String from [] = {**"title"**,**"description"**,**"pubdate"**};  
 **int**[] to = {R.id.***title***, R.id.***description***,R.id.***pubdate***};  
 SimpleAdapter adapter= **new** SimpleAdapter(**c**,**ds2**,R.layout.***new\_cell***,from,to);  
 **lv**.setAdapter(adapter);  
  
 **lv**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  
 @Override  
 **public void** onItemClick(AdapterView<?> parent, View view, **int** position, **long** id) {  
 String link = **ds**.get(position).getLink();  
 Intent intent = **new** Intent(**c**,NewDetailActivity.**class**);  
 intent.putExtra(**"link"**,link);  
 ((Activity)**c**).startActivity(intent);  
 }  
 });  
  
 }  
  
}

**Xây dựng một class mới tên MySaxHandler kế thừa từ DefaultHandler và override lên 3 phương thức là charcters, endElement, startElement**

**public class** MySaxHandler **extends** DefaultHandler {  
 ArrayList<Item> **items**;  
 Item **item\_tam**;  
 String **chuoi\_tam**;  
 **boolean vao\_item**=**false**;  
 **public** MySaxHandler()  
 {  
 **items**=**new** ArrayList<Item>();  
 }  
 **public** ArrayList<Item> getItems()  
 {  
 **return items**;  
 }  
  
  
 @Override  
 **public void** characters(**char**[] ch, **int** start, **int** length)  
 **throws** SAXException {  
 *//* ***TODO Auto-generated method stub* super**.characters(ch, start, length);  
 **if**(**vao\_item**==**true**)  
 **chuoi\_tam**=**new** String(ch,start,length);  
  
 }  
  
 @Override  
 **public void** endElement(String uri, String localName, String qName)  
 **throws** SAXException {  
 *//* ***TODO Auto-generated method stub* super**.endElement(uri, localName, qName);  
 **if**(qName.equalsIgnoreCase(**"item"**))  
 {  
 **items**.add(**item\_tam**);  
 }**else if**(**vao\_item**==**true**)  
 {  
 **if**(qName.equalsIgnoreCase(**"title"**))  
 **item\_tam**.setTitle(**chuoi\_tam**);  
 **if**(qName.equalsIgnoreCase(**"description"**))  
 **item\_tam**.setDescription(**chuoi\_tam**);  
 **if**(qName.equalsIgnoreCase(**"link"**))  
 **item\_tam**.setLink(**chuoi\_tam**);  
 **if**(qName.equalsIgnoreCase(**"pubdate"**))  
 **item\_tam**.setPubdate(**chuoi\_tam**);  
 }  
  
 }  
  
 @Override  
 **public void** startElement(String uri, String localName, String qName,  
 Attributes attributes) **throws** SAXException {  
 *//* ***TODO Auto-generated method stub* super**.startElement(uri, localName, qName, attributes);  
 **if**(qName.equalsIgnoreCase(**"item"**))  
 {  
 **item\_tam**=**new** Item();  
 **vao\_item**=**true**;  
 }  
  
 }  
  
}

**Tạo class MySaxParser**

**public class** MySaxParser {  
 **public static** ArrayList<Item> xmlParser(InputStream is)  
{  
 ArrayList<Item> items=**null**;  
 **try**{  
 *//tao xmlreader tu xmlparser* XMLReader xmlreader= SAXParserFactory.*newInstance*().newSAXParser().getXMLReader();  
 *//tao saxhandler* MySaxHandler saxhandler=**new** MySaxHandler();  
 *//luu handler vao xmlreader* xmlreader.setContentHandler(saxhandler);  
 xmlreader.parse(**new** InputSource(is));  
 *//lay danh sach cac item bo vao items* items=saxhandler.getItems();  
 }  
 **catch**(Exception e)  
 {  
 Log.*d*(**"loi"**,**"lay khong duoc "**+ e.toString());  
 }  
 **return** items;  
}  
  
}

**Tạo 1 layout để show cái dự liệu web mình vừa lấy về**

**Tên là new\_cell.xml**

<**LinearLayout  
 xmlns:android="http://schemas.android.com/apk/res/android" android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"**>  
 <**TextView  
 android:id="@+id/title"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Medium Text"  
 android:textSize="25dp"  
 android:textColor="#ff0000"  
 android:textAppearance="?android:attr/textAppearanceMedium"** />  
  
 <**TextView  
 android:id="@+id/description"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="TextView"  
 android:textColor="#000000"** />  
  
 <**TextView  
 android:id="@+id/pubdate"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="Small Text"  
 android:textAppearance="?android:attr/textAppearanceSmall"** />  
  
  
</**LinearLayout**>

**Tạo 1 Activity** NewDetailActivity để hiện thị web view

**public class** NewDetailActivity **extends** AppCompatActivity {  
 WebView **wv**;  
 String **link**;  
 ProgressDialog **progressbar**;  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_new\_detail***);  
 **wv**=(WebView)findViewById(R.id.***webView1***);  
  
 **link**=getIntent().getExtras().getString(**"link"**);  
 **wv**.loadUrl(**link**);  
 **progressbar**=ProgressDialog.*show*(**this**, **"cho chut"**, **"loading....."**);  
 **wv**.setWebViewClient(**new** WebViewClient(){  
  
 @Override  
 **public void** onPageFinished(WebView view, String url) {  
 *//* ***TODO Auto-generated method stub* super**.onPageFinished(view, url);  
 **if**(**progressbar**.isShowing())  
 **progressbar**.dismiss();  
 }  
  
 @Override  
 **public boolean** shouldOverrideUrlLoading(WebView view, String url) {  
 *//* ***TODO Auto-generated method stub* wv**.loadUrl(url);  
 **return super**.shouldOverrideUrlLoading(view, url);  
  
 }  
  
 });  
 **wv**.loadUrl(**link**);  
  
 }  
}

layout

<**LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"  
 xmlns:app="http://schemas.android.com/apk/res-auto"  
 xmlns:tools="http://schemas.android.com/tools"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 android:orientation="vertical"  
 tools:context=".NewDetailActivity"**>  
 <**WebView  
 android:id="@+id/webView1"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"** />  
  
  
</**LinearLayout**>