

BÀI TẬP BUỔI 12

1. tạo dự án mới và các đối tượng hỗ trợ



```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

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

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="TraoDoiDuLieuVoiWebServer"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.TraoDoiDuLieuVoiWebServer"
        android:networkSecurityConfig="@xml/network_security_config"
        tools:targetApi="31">
        <activity android:name=".GoiDuLieuDenServer"
            android:label="Gửi dữ liệu đến Web Server"
            android:exported="false">

        </activity>
        <activity
            android:name=".NhanDuLieuTuServer"
            android:exported="false" />

    </manifest>
```

2. thêm lớp Publics khai báo các biến và phương thức sử dụng chung

Bài tập Phát triển ứng dụng trên thiết bị di động_TN216

```
package com.thud.traodoidulieuvoiwebserver;

import ...
5 usages
public class Publics {

    1 usage
    public static String URLNHANDULIEU =
        "https://api.imgflip.com/get_memes";

    1 usage
    public static String URLGOIDULIEU =
        "http://hmkcode.appspot.com/jsonservlet";

    2 usages
    @ public static boolean HasInternet(Context context) {
        ConnectivityManager conn = (ConnectivityManager)
            context.getSystemService(Context.CONNECTIVITY_SERVICE);
        NetworkInfo netInfo = conn.getActiveNetworkInfo();
        return ((netInfo != null) && (netInfo.isConnected()));
    }

    1 usage
    @ public static String StreamToString(InputStream tream){
        StringBuilder builder = new StringBuilder();
        BufferedReader reader = new BufferedReader(
            new InputStreamReader(tream));
        String temp;
        try {
            while ((temp = reader.readLine()) != null) {
                builder.append(temp).append('\n');
            }
            tream.close();
        } catch (IOException e) {
        }
        return builder.toString();
    }
}
```

3. tạo Activity thực hiện nhận dữ liệu từ Web Server, thiết kế giao diện hiển thị dữ liệu nhận được trong ListView

```
xmlns:tools="http://schemas.android.com/tools"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical"
    tools:context=".NhanDuLieuTuServer">
    <ListView
        android:id="@+id/lst_dulieu"
        android:layout_width="match_parent"
        android:layout_height="0dp"
        android:layout_weight="1" />
    <LinearLayout
        android:gravity="center"
        android:layout_height="wrap_content"
        android:layout_marginTop="1dp"
        android:layout_width="match_parent"
        android:orientation="horizontal">
        <Button
            style="@style/ButtonStyle"
            android:id="@+id/btn_nhan"
            android:onClick="ThucHienNhanDuLieu"
            android:text="Nhận dữ liệu" />
        <Button
            style="@style/ButtonStyle"
            android:id="@+id/btn_xoa"
            android:onClick="XoaDuLieu"
            android:text="Xóa dữ liệu" />
    </LinearLayout>
</LinearLayout>
```

Bài tập Phát triển ứng dụng trên thiết bị di động_TN216

```
api.imgur.com/get_memes

Pretty print

{"success":true,"data":{"memes":[{"id":"181913649","name":"Drake Hotline Bling","url":"https://i.imgur.com/30b1gx.jpg","width":1200,"height":1200,"box_count":2,"captions":1225000}, {"id":"87743028","name":"Two Buttons","url":"https://i.imgur.com/lg8ny4.jpg","width":600,"height":900,"box_count":3,"captions":980000}, {"id":"112126428","name":"Distracted Boyfriend","url":"https://i.imgur.com/1ur980.jpg","width":1200,"height":800,"box_count":3,"captions":1014000}, {"id":"217743513","name":"XMO Draw 25 Cards","url":"https://i.imgur.com/3lmdyx.jpg","width":500,"height":494,"box_count":2,"captions":542750}, {"id":"124822590","name":"Left Exit 12 Off Ramp","url":"https://i.imgur.com/22bdq6.jpg","width":804,"height":767,"box_count":3,"captions":622500}, {"id":"131087935","name":"Running Away Balloon","url":"https://i.imgur.com/261o3j.jpg","width":761,"height":1024,"box_count":5,"captions":519750}, {"id":"222403160","name":"Bernie I Am Once Again Asking For Your Support","url":"https://i.imgur.com/3oedvk.jpg","width":750,"height":750,"box_count":2,"captions":277000}, {"id":"129242436","name":"Change My Mind","url":"https://i.imgur.com/24y43o.jpg","width":482,"height":361,"box_count":2,"captions":610000}, {"id":"131940431","name":"Gru's Plan","url":"https://i.imgur.com/26jxvz.jpg","width":700,"height":449,"box_count":4,"captions":296500}, {"id":"4087833","name":"Waiting Skeleton","url":"https://i.imgur.com/2fz6w.jpg","width":298,"height":403,"box_count":2,"captions":414500}, {"id":"135256802","name":"Epic Handshake","url":"https://i.imgur.com/28j8te.jpg","width":900,"height":645,"box_count":3,"captions":206250}, {"id":"438680","name":"Batman Slapping Robin","url":"https://i.imgur.com/9ehk.jpg","width":400,"height":387,"box_count":2,"captions":604250}, {"id":"80707627","name":"Sad Pablo Escobar","url":"https://i.imgur.com/1cluej.jpg","width":720,"height":709,"box_count":3,"captions":193750}, {"id":"97984","name":"Disaster Girl","url":"https://i.imgur.com/23ls.jpg","width":500,"height":375,"box_count":2,"captions":334000}, {"id":"161865971","name":"Marked Safe From","url":"https://i.imgur.com/2odckz.jpg","width":618,"height":499,"box_count":2,"captions":171750}, {"id":"252600902","name":"Always Has Been","url":"https://i.imgur.com/46e43q.png","width":960,"height":540,"box_count":2,"captions":177000}, {"id":"247375501","name":"Buff Doge vs. Cheems","url":"https://i.imgur.com/43a45p.png","width":937,"height":720,"box_count":4,"captions":326500}, {"id":"532841258","name":"Anakin Padme 4 Panel","url":"https://i.imgur.com/5c7lwe.jpg","width":768,"height":768,"box_count":3,"captions":102000}, {"id":"188390779","name":"Woman Yelling At Cat","url":"https://i.imgur.com/345v97.jpg","width":680,"height":438,"box_count":2,"captions":348500}, {"id":"91538330","name":"X, X Everywhere","url":"https://i.imgur.com/1ihzfe.jpg","width":2118,"height":1440,"box_count":2,"captions":348750}, {"id":"309868304","name":"Trade Offer","url":"https://i.imgur.com/54hjwv.jpg","width":607,"height":794,"box_count":3,"captions":195500}, {"id":"110163934","name":"I Bet He's Thinking About Other Women","url":"https://i.imgur.com/1tl71a.jpg","width":1654,"height":930,"box_count":2,"captions":139750}, {"id":"178591752","name":"Tuxedo Winnie The Pooh","url":"https://i.imgur.com/2ybu0n.png","width":800,"height":582,"box_count":2,"captions":236250}, {"id":"102156234","name":"Mocking Spongebob","url":"https://i.imgur.com/1otk96.jpg","width":592,"height":353,"box_count":2,"captions":411500}, {"id":"79132341","name":"Bike Fall","url":"https://i.imgur.com/1b4zul.jpg","width":580,"height":680,"box_count":3,"captions":115000}, {"id":"93895088","name":"Expanding Brain","url":"https://i.imgur.com/1jshwv.jpg","width":857,"height":1202,"box_count":4,"captions":431000}, {"id":"101470","name":"Ancient Aliens","url":"https://i.imgur.com/17dqm.jpg","width":500,"height":437,"box_count":2,"captions":355000}, {"id":"61579","name":"One Does Not Simply","url":"https://i.imgur.com/1b1ij.jpg","width":568,"height":335,"box_count":2,"captions":447250}, {"id":"148909805","name":"Monkey Puppet","url":"https://i.imgur.com/2gnnjh.jpg","width":923,"height":768,"box_count":2,"captions":192250}, {"id":"180190441","name":"They're The Same Picture","url":"https://i.imgur.com/2za3ui.jpg","width":1363,"height":1524,"box_count":3,"captions":152000}, {"id":"61544","name":"Success Kid","url":"https://i.imgur.com/1ibhk.jpg","width":500,"height":500,"box_count":2,"captions":133250}, {"id":"3218037","name":"This Is Where I'd Put My Trophy If I Had One","url":"https://i.imgur.com/1xw1x.jpg","width":300,"height":418,"box_count":2,"captions":131000}, {"id":"370867422","name":"Megamind peeking","url":"https://i.imgur.com/64sz4u.png","width":540,"height":540,"box_count":2,"captions":76250}, {"id":"1035805","name":"Boardroom Meeting Suggestion","url":"https://i.imgur.com/17m7d.jpg","width":500,"height":649,"box_count":4,"captions":379500}, {"id":"195515965","name":"Clown Applying Makeup","url":"https://i.imgur.com/38el31.jpg","width":750,"height":798,"box_count":4,"captions":106500}, {"id":"124055727","name":"Y'all Got Any More Of That","url":"https://i.imgur.com/21uy0f.jpg","width":600,"height":471,"box_count":2,"captions":195750}, {"id":"27813981","name":"Hide the Pain Harold","url":"https://i.imgur.com/gk5el.jpg","width":480,"height":601,"box_count":2,"captions":214000}, {"id":"224015000","name":"Bernie Sanders Once Again Asking","url":"https://i.imgur.com/3pdf2w.png","width":926,"height":688,"box_count":2,"captions":44250}, {"id":"316466202","name":"where monkey","url":"https://i.imgur.com/158eyvu.jpg","width":1113,"height":620,"box_count":2,"captions":54250}, {"id":"553111307","name":"This Is Fine","url":"https://i.imgur.com/vxico.jpg","width":580,"height":282,"box_count":2,"captions":123750}, {"id":"28251713","name":"Oprah You Get A","url":"https://i.imgur.com/gtj5t.jpg","width":620,"height":465,"box_count":2,"captions":189500}, {"id":"119139145","name":"Blank Nut Button","url":"https://i.imgur.com/1yxkcp.jpg","width":600,"height":445,"box_count":2,"captions":295500}, {"id":"100777631","name":"Is This A Pigeon","url":"https://i.imgur.com/1o00in.jpg","width":1587,"height":1425,"box_count":3,"captions":208000}, {"id":"259237855","name":"Laughing Leo","url":"https://i.imgur.com/4acd7j.png","width":470,"height":470,"box_count":2,"captions":91500}, {"id":"252758727","name":"Mother Ignoring Kid Drowning In A Pool","url":"https://i.imgur.com/46hvr.jpg","width":782,"height":1032,"box_count":4,"captions":47250}, {"id":"166969924","name":"Flex Tape","url":"https://i.imgur.com/2eqete.png","width":510,"height":572,"box_count":3,"captions":62000}, {"id":"89370399","name":"Roll Safe Think About"}]}
```

4. điều chỉnh mã lệnh Java cho NhanDuLieuTuServer

```
package com.thud.traodoidulieuvoiwebserver;
```

14 6 ^

```
import ...
```

```
▶ </> public class NhanDuLieuTuServer extends AppCompatActivity {  
    4 usages  
    List<String> listDuLieu;  
    2 usages  
    ListView listviewDuLieu;  
    4 usages  
    ArrayAdapter<String> adapter;  
    @Override  
    ① protected void onCreate(Bundle savedInstanceState) {  
        super.onCreate(savedInstanceState);  
        setContentView(R.layout.activity_nhan_du_lieu_tu_server);  
        listviewDuLieu = findViewById(R.id.lst_dulieu);  
        listDuLieu = new ArrayList<String>();  
        adapter = new ArrayAdapter<String>(context: this,  
            android.R.layout.simple_list_item_1, listDuLieu);  
        listviewDuLieu.setAdapter(adapter);  
    }  
    1 usage  
    public void ThucHienNhanDuLieu(View view){  
        if (Publics.HasInternet(context: this)) {  
            NhanDuLieu nhanDuLieu = new NhanDuLieu();  
            nhanDuLieu.execute();  
        } else {
```

```
        Toast.makeText(context: this, text: "Lỗi kết nối Internet!",  
                        Toast.LENGTH_LONG).show();  
    }  
}
```

2 usages

```
private class NhanDuLieu extends AsyncTask<Void, Void, Integer>{  
    @Override  
    protected Integer doInBackground(Void... voids){  
        int ketqua = 0;  
        try {  
            URL url = new URL(Publics.URLNHANDULIEU);  
            HttpURLConnection conn =  
                (HttpURLConnection) url.openConnection();  
            conn.setRequestMethod("GET");  
            conn.setRequestProperty("Content-Type",  
                                    "application/json");  
            conn.setDoOutput(false);  
            conn.setDoInput(true);  
            conn.setReadTimeout(10000);  
            conn.setConnectTimeout(15000);  
            conn.connect();  
            InputStream in = new BufferedInputStream(  
                conn.getInputStream());  
            String strDuLieu = Publics.StreamToString(in);  
            int responseCode = conn.getResponseCode();  
            if (responseCode == HttpURLConnection.HTTP_OK){  
                JSONObject jsonObj = new JSONObject(strDuLieu);  
            }  
        } catch (Exception e) {  
            e.printStackTrace();  
        }  
        return ketqua;  
    }  
}
```

```
        JSONObject objData = jsonObj.getJSONObject( name: "data");
        JSONArray arrDuLieu = objData.getJSONArray( name: "memes");
        for (int i = 0; i < arrDuLieu.length(); i++){
            JSONObject dulieu = arrDuLieu.getJSONObject(i);
            String id = dulieu.getString( name: "id");
            String hoten = dulieu.getString( name: "name");
            listDuLieu.add(id + " - " + hoten);
            ketqua++;
        }
    }
    in.close();
    conn.disconnect();
} catch (Exception e) {
}
return ketqua;
}

@Override
protected void onPostExecute(Integer integer) {
    super.onPostExecute(integer);
    if (integer > 0) {
        setResult(RESULT_OK);
        adapter.notifyDataSetChanged();
        Toast.makeText( context: NhanDuLieuTuServer.this,
            text: "Nhận được " + integer + " thông tin mới!",
            Toast.LENGTH_LONG).show();
    } else {
        setResult(RESULT_CANCELED);
        Toast.makeText(getApplicationContext(),
            text: "Không nhận được thông tin mới!",
            Toast.LENGTH_SHORT).show();
    }
}
}

1 usage
public void XoaDuLieu(View view){
    listDuLieu.clear();
    adapter.notifyDataSetChanged();
}
}
```

5. tạo Activity thực hiện gửi dữ liệu đến Web Server, thiết kế giao diện

```
<?xml version="1.0" encoding="utf-8"?>
<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=".GoiDuLieuDenServer">

    <com.google.android.material.textfield.TextInputLayout
        android:id="@+id/layout_hoten"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="7dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/edt_hoten"
            style="@style/TextStyle"
            android:hint="Nhập họ tên" />
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:id="@+id/layout_quocgia"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="7dp">

        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/edt_quocgia"
            style="@style/TextStyle"
            android:hint="Nhập quốc gia" />
    </com.google.android.material.textfield.TextInputLayout>
    <com.google.android.material.textfield.TextInputLayout
        android:id="@+id/layout_noidung"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="7dp">
        <com.google.android.material.textfield.TextInputEditText
            android:id="@+id/edt_noidung"
            style="@style/TextStyle"
            android:hint="Nhập nội dung" />
    </com.google.android.material.textfield.TextInputLayout>
    <LinearLayout
        android:gravity="center"
        android:layout_height="wrap_content"
        android:layout_marginTop="1dp"
        android:layout_width="match_parent"
        android:orientation="horizontal">
        <Button
            style="@style/ButtonStyle"
            android:id="@+id/btn_goi"
            android:onClick="ThucHienGoiDuLieu"
            android:text="Gửi dữ liệu" />
        <Button
            style="@style/ButtonStyle"
```


Bài tập Phát triển ứng dụng trên thiết bị di động_TN216

```
        android:id="@+id/btn_xoa"  
        android:onClick="XoaNoiDung"  
        android:text="Xóa nội dung" />  
    </LinearLayout>  
</LinearLayout>
```

6. điều chỉnh mã lệnh Java cho GoiDuLieuDenServer

Bài tập Phát triển ứng dụng trên thiết bị di động_TN216

```
package com.thud.traodoidulieuvoiwebserver;

import ...

public class GoiDuLieuDenServer extends AppCompatActivity {

    5 usages
    TextInputEditText edtHoTen, edtQuocGia, edtNoiDung;
    3 usages
    TextInputLayout layoutHoTen, layoutQuocGia, layoutNoiDung;
    3 usages
    String strHoTen, strQuocGia, strNoiDung;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_goi_du_lieu_den_server);
        edtHoTen = findViewById(R.id.edt_hoten);
        layoutHoTen = findViewById(R.id.layout_hoten);
        edtQuocGia = findViewById(R.id.edt_quocgia);
        layoutQuocGia = findViewById(R.id.layout_quocgia);
        edtNoiDung = findViewById(R.id.edt_noidung);
        layoutNoiDung = findViewById(R.id.layout_noidung);
    }

    public void ThucHienGoiDuLieu(View view){
        strHoTen = edtHoTen.getText().toString().trim();
        if(strHoTen.length() == 0){
            layoutHoTen.setError("Lỗi chưa nhập họ tên!");
            edtHoTen.requestFocus();
            return;
        }
        else
            layoutHoTen.setError(null);
        strQuocGia = edtQuocGia.getText().toString().trim();
        if(strQuocGia.length() == 0){
            layoutQuocGia.setError("Lỗi chưa nhập quốc gia!");
            edtQuocGia.requestFocus();
            return;
        }
        else
            layoutQuocGia.setError(null);
        strNoiDung = edtNoiDung.getText().toString().trim();
        if(strNoiDung.length() == 0){
            layoutNoiDung.setError("Lỗi chưa nhập nội dung!");
            edtNoiDung.requestFocus();
            return;
        }
        else
            layoutNoiDung.setError(null);
        if (Publics.HasInternet(context: this)) {
            GoiDuLieu goiDuLieu = new GoiDuLieu();
            goiDuLieu.execute();
        }
    }
}
```

```
    } else {
        Toast.makeText(context: this, text: "Lỗi kết nối Internet!",
            Toast.LENGTH_LONG).show();
    }
}
2 usages
private class GoiDuLieu extends
    AsyncTask<Void, Void, String> {
    @Override
    protected String doInBackground(Void... arg0){
        String ketqua = "";
        try {
            URL url = new URL(Publics.URLGOIDULIEU);
            HttpURLConnection conn = (HttpURLConnection)
                url.openConnection();
            conn.setRequestMethod("POST");
            conn.setRequestProperty("Content-Type",
                "application/json");
            conn.setDoOutput(true);
            conn.setDoInput(false);
            conn.setReadTimeout(10000);
            conn.setConnectTimeout(15000);
            conn.connect();
            JSONObject dulieu = new JSONObject();
            dulieu.put(name: "name", strHoTen);
            dulieu.put(name: "country", strQuocGia);
            dulieu.put(name: "twitter", strNoiDung);
            OutputStream os = conn.getOutputStream();
```

```

        OutputStreamWriter out = new OutputStreamWriter(os,
            charsetName: "UTF-8");
        BufferedWriter writer = new BufferedWriter(out);
        writer.write(dulieu.toString());
        writer.flush();
        ketqua = conn.getResponseMessage();
        writer.close();
        out.close();
        os.close();
        conn.disconnect();
    } catch (Exception e) {
    }
    return ketqua;
}

@Override
protected void onPostExecute(String s) {
    super.onPostExecute(s);
    if (s.equalsIgnoreCase( anotherString: "OK")) {
        setResult(RESULT_OK);
        Toast.makeText( context: GoiDuLieuDenServer.this,
            text: "Gửi dữ liệu thành công!",
            Toast.LENGTH_LONG).show();
    } else {
        setResult(RESULT_CANCELED);
        Toast.makeText( context: GoiDuLieuDenServer.this,
            text: "Gửi dữ liệu không thành công!",
            Toast.LENGTH_SHORT).show();
    }
}
}

```

```

1 usage
public void XoaNoiDung(View view){
    edtHoTen.setText("");
    edtQuocGia.setText("");
    edtNoiDung.setText("");
    edtHoTen.requestFocus();
}
}

```

7. điều chỉnh cấu hình hỗ trợ thực hiện gửi dữ liệu

```

<?xml version="1.0" encoding="utf-8"?>
<network-security-config>
    <base-config cleartextTrafficPermitted="true" />
    <domain-config cleartextTrafficPermitted="true">
        <domain includeSubdomains = "true">
            http://hmkcode.appspot.com</domain>
        </domain-config>
    </network-security-config>

```

Khai báo trong AndroidManifest.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<manifest xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools">

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

    <application
        android:allowBackup="true"
        android:dataExtractionRules="@xml/data_extraction_rules"
        android:fullBackupContent="@xml/backup_rules"
        android:icon="@mipmap/ic_launcher"
        android:label="TraoDoiDuLieuVoiWebServer"
        android:roundIcon="@mipmap/ic_launcher_round"
        android:supportsRtl="true"
        android:theme="@style/Theme.TraoDoiDuLieuVoiWebServer"
        android:networkSecurityConfig="@xml/network_security_config"
        tools:targetApi="31">
```

8. thực thi và kiểm tra kết quả

HMKCode.com

Java Servlet that Receives POST Request with JSON Data

Refresh

Visitors

Name	Country	Twitter
------	---------	---------

9. điều chỉnh giao diện MainActivity làm thực đơn cho ứng dụng

```
<?xml version="1.0" encoding="utf-8"?>
<ListView xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/lst_menu"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    tools:context=".MainActivity" />
```

10. điều chỉnh mã lệnh Java cho MainActivity

```
String[] arrMenu = {"Nhận dữ liệu", "Gửi dữ liệu"};
3 usages
ListView listviewDuLieu;
2 usages
ArrayAdapter<String> adapter;
@Override
protected void onCreate(Bundle savedInstanceState) {
    super.onCreate(savedInstanceState);
    setContentView(R.layout.activity_main);

    listviewDuLieu = findViewById(R.id.lst_menu);
    adapter = new ArrayAdapter<String>(context: this,
        android.R.layout.simple_list_item_1, arrMenu);
    listviewDuLieu.setAdapter(adapter);
    listviewDuLieu.setOnItemClickListener(new ChonCongViec());
}
1 usage
private class ChonCongViec implements
    android.widget.AdapterView.OnItemClickListener {
    @Override
    public void onItemClick(AdapterView<?> parent, View view,
        int position, long id) {
        Intent intent = new Intent( packageContext: MainActivity.this,
            NhanDuLieuTuServer.class);
        if (position == 1)
            intent = new Intent( packageContext: MainActivity.this,
                GoiDuLieuDenServer.class);
        startActivity(intent);
    }
}
```

Bài tập Phát triển ứng dụng trên thiết bị di động_TN216



Bài tập Phát triển ứng dụng trên thiết bị di động_TN216

