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MSSV: 20225870

# Báo cáo bài tập internet Json

## 13/01/2026

### Màn hình chính

The screenshot shows the Android Studio interface with the StudentAdapter.kt file open in the main editor. The code is written in Kotlin and defines a DetailActivity. The activity's onCreate method is shown, along with logic to handle back navigation and retrieve student data from an intent. A preview window on the right shows a list of student names and profile pictures. The bottom status bar indicates the date as 13/01/2026.

```
package com.example.httpstudentlist

import android.os.Bundle
import android.widget.ImageButton
import android.widget.ImageView
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
import com.bumptech.glide.Glide

class DetailActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_detail)

        // --- XỬ LÝ NÚT BACK ---
        val btnBack = findViewById<ImageButton>(R.id.back_button)
        btnBack.setOnClickListener {
            finish() // Đóng Activity này để quay về
        }

        // --- XỬ LÝ ĐÓI LIỆU ---
        val student = intent.getSerializableExtra("student") as Student

        if (student != null) {
            findViewById<TextView>(R.id.tvName).text = student.name
            findViewById<TextView>(R.id.tvDate).text = student.date
        }
    }
}
```

```

1 package com.example.httpstudentlist
2
3 import android.os.Bundle
4 import android.widget.ImageButton // Import Image
5 import android.widget.ImageView
6 import android.widget.TextView
7 import androidx.appcompat.app.AppCompatActivity
8 import com.bumptech.glide.Glide
9
10 class DetailActivity : AppCompatActivity() {
11     override fun onCreate(savedInstanceState: Bundle?) {
12         super.onCreate(savedInstanceState)
13         setContentView(R.layout.activity_detail)
14
15         // --- XỬ LÝ NÚT BACK ---
16         val btnBack = findViewById<ImageButton>(R.id.btn_back)
17         btnBack.setOnClickListener {
18             finish() // Đóng Activity này để quay về
19         }
20
21         // --- XỬ LÝ DỮ LIỆU ---
22         val student = intent.getSerializableExtra("student")
23
24         if (student != null) {
25             findViewById<TextView>(R.id.tv_id).text =
26                 student.id
27             findViewById<TextView>(R.id.tv_name).text =
28                 student.name
29             findViewById<TextView>(R.id.tv_email).text =
30                 student.email
31             findViewById<TextView>(R.id.tv_dob).text =
32                 student.dob
33         }
34     }
35 }

```

## Màn hình chi tiết sinh viên

Có thêm nút Back để xử lý ra ngoài

```

1 package com.example.httpstudentlist
2
3 import android.os.Bundle
4 import android.widget.ImageButton // Import Image
5 import android.widget.ImageView
6 import android.widget.TextView
7 import androidx.appcompat.app.AppCompatActivity
8 import com.bumptech.glide.Glide
9
10 class DetailActivity : AppCompatActivity() {
11     override fun onCreate(savedInstanceState: Bundle?) {
12         super.onCreate(savedInstanceState)
13         setContentView(R.layout.activity_detail)
14
15         // --- XỬ LÝ NÚT BACK ---
16         val btnBack = findViewById<ImageButton>(R.id.btn_back)
17         btnBack.setOnClickListener {
18             finish() // Đóng Activity này để quay về
19         }
20
21         // --- XỬ LÝ DỮ LIỆU ---
22         val student = intent.getSerializableExtra("student")
23
24         if (student != null) {
25             findViewById<TextView>(R.id.tv_id).text =
26                 student.id
27             findViewById<TextView>(R.id.tv_name).text =
28                 student.name
29             findViewById<TextView>(R.id.tv_email).text =
30                 student.email
31             findViewById<TextView>(R.id.tv_dob).text =
32                 student.dob
33         }
34     }
35 }

```

## Tìm kiếm theo tên

The screenshot shows the Android Studio interface with the code editor open. The code is in Kotlin and defines a `DetailActivity` that overrides `onCreate` and sets its content view to `R.layout.activity_detail`. It also handles the back button and retrieves a student object from the intent. A search results window is displayed on the right side, listing student names and their IDs:

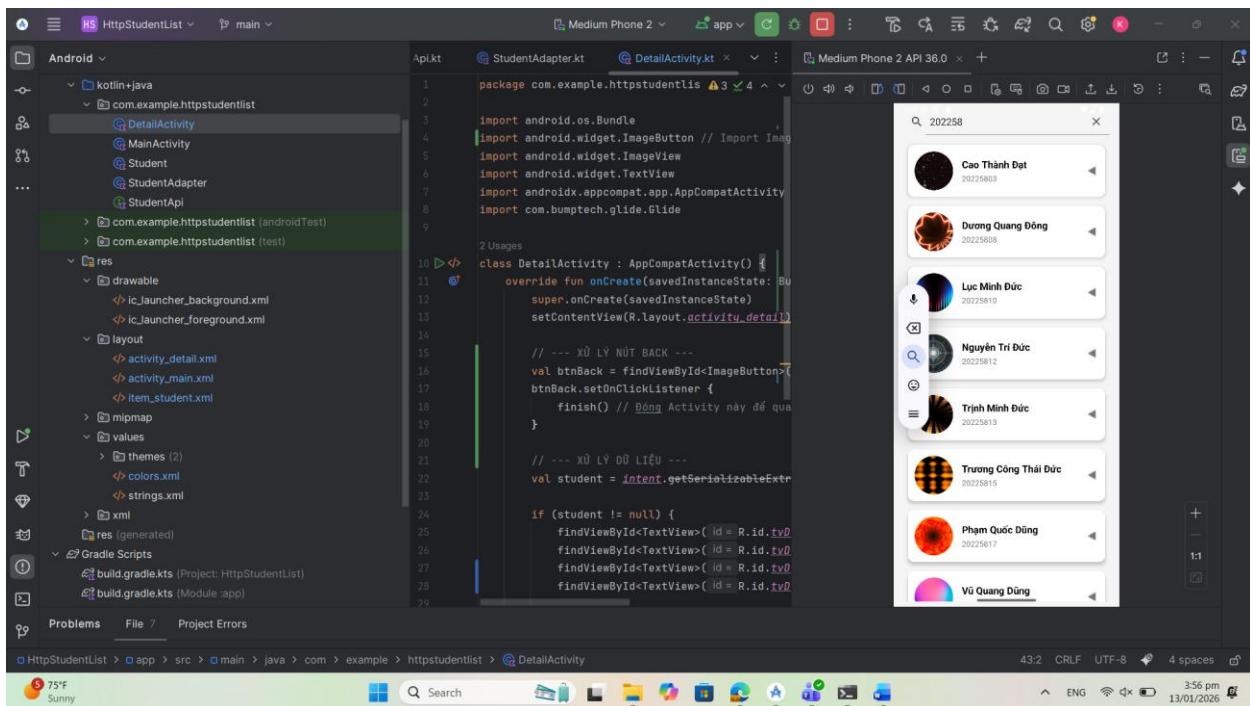
- Cao Đức Anh (20225761)
- Dinh Đức Anh (20225762)
- Trần Văn Đức Anh (20225690)
- Vũ Đức Hoàng Anh (20225658)
- Dàm Thành Bách (20225600)
- Ngô Việt Bách (20225789)
- Vũ Quốc Bảo (20225694)
- Nguyễn Đức Bình (20225695)

Tìm kiếm bằng mssv

Mssv chi tiết

The screenshot shows the Android Studio interface with the code editor open. The search results window on the right is now filtered for the ID "20225870", showing a single result: "Võ Anh Khôi".

Mssv tương đối



## Source code

### Student.kt

```
package com.example.httpstudentlist
```

```
import java.io.Serializable
```

```
data class Student(
    val hoten: String,
    val mssv: String,
    val thumbnail: String,
    val ngaysinh: String,
    val email: String
) : Serializable
```

### studentAPI

```
package com.example.httpstudentlist
```

```
import retrofit2.Call
import retrofit2.http.GET
```

```
interface StudentApi {
```

```
@GET("students")
fun getStudents(): Call<List<Student>>
}
```

StudentAdapter.kt

```
package com.example.httpstudentlist

import android.view.LayoutInflater
import android.view.View
import android.view.ViewGroup
import android.widget.ImageView
import android.widget.TextView
import androidx.recyclerview.widget.RecyclerView
import com.bumptech.glide.Glide

class StudentAdapter(
    private var originalList: List<Student>,
    private val onClick: (Student) -> Unit
) : RecyclerView.Adapter<StudentAdapter.StudentViewHolder>() {

    private var filteredList: List<Student> = originalList

    inner class StudentViewHolder(itemView: View) :
        RecyclerView.ViewHolder(itemView) {
        val imgThumbnail: ImageView = itemView.findViewById(R.id.imgThumbnail)
        val tvName: TextView = itemView.findViewById(R.id.tvName)
        val tvMssv: TextView = itemView.findViewById(R.id.tvMssv)
    }

    override fun onCreateViewHolder(parent: ViewGroup, viewType: Int):
        StudentViewHolder {
        val view = LayoutInflater.from(parent.context).inflate(R.layout.item_student, parent,
false)
        return StudentViewHolder(view)
    }

    override fun onBindViewHolder(holder: StudentViewHolder, position: Int) {
        val student = filteredList[position]
        holder.tvName.text = student.hoten
    }
}
```

```
holder.tvMssv.text = student.mssv

val imageUrl = if (student.thumbnail.startsWith("http")) {
    student.thumbnail
} else {
    "https://lebavui.io.vn" + student.thumbnail
}

Glide.with(holder.itemView.context)
    .load(imageUrl) // Truyền link đã xử lý vào đây
    .placeholder(android.R.drawable.ic_menu_gallery)
    .error(android.R.drawable.stat_notify_error)
    .into(holder.imgThumbnail)

holder.itemView.setOnClickListener { onClick(student) }
}

override fun getItemCount(): Int = filteredList.size

// Hàm lọc tìm kiếm
fun filter(query: String) {
    filteredList = if (query.isEmpty()) {
        originalList
    } else {
        originalList.filter {
            it.hoten.contains(query, ignoreCase = true) ||
            it.mssv.contains(query, ignoreCase = true)
        }
    }
    notifyDataSetChanged()
}

fun updateData(newList: List<Student>) {
    originalList = newList
    filteredList = newList
    notifyDataSetChanged()
}
}
```

## **DetailActivity.kt**

```
package com.example.httpstudentlist

import android.os.Bundle
import android.widget.ImageButton
import android.widget.ImageView
import android.widget.TextView
import androidx.appcompat.app.AppCompatActivity
import com.bumptech.glide.Glide

class DetailActivity : AppCompatActivity() {
    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_detail)

        // --- XỬ LÝ NÚT BACK ---
        val btnBack = findViewById<ImageButton>(R.id.btnBack)
        btnBack.setOnClickListener {
            finish()
        }

        // --- XỬ LÝ DỮ LIỆU ---
        val student = intent.getSerializableExtra("STUDENT_DATA") as? Student

        if (student != null) {
            findViewById<TextView>(R.id.tvDetailName).text = student.hoten
            findViewById<TextView>(R.id.tvDetailMssv).text = "MSSV: ${student.mssv}"
            findViewById<TextView>(R.id.tvDetailDob).text = student.ngaysinh
            findViewById<TextView>(R.id.tvDetailEmail).text = student.email

            val img = findViewById<ImageView>(R.id.imgDetailAvatar)

            val imageUrl = if (student.thumbnail.startsWith("http")) {
                student.thumbnail
            } else {
                "https://lebavui.io.vn" + student.thumbnail
            }

            Glide.with(this)
                .load(imageUrl)
```

```
        .into(img)
    }
}
}

MainActivity.kt

package com.example.httpstudentlist

import android.content.Intent
import android.os.Bundle
import android.widget.SearchView
import android.widget.Toast
import androidx.appcompat.app.AppCompatActivity
import androidx.recyclerview.widget.LinearLayoutManager
import androidx.recyclerview.widget.RecyclerView
import retrofit2.Call
import retrofit2.Callback
import retrofit2.Response
import retrofit2.Retrofit
import retrofit2.converter.gson.GsonConverterFactory

class MainActivity : AppCompatActivity() {
    private lateinit var adapter: StudentAdapter
    private lateinit var searchView: SearchView
    private lateinit var recyclerView: RecyclerView

    override fun onCreate(savedInstanceState: Bundle?) {
        super.onCreate(savedInstanceState)
        setContentView(R.layout.activity_main)

        recyclerView = findViewById(R.id.recyclerView)
        searchView = findViewById(R.id.searchView)

        // Cấu hình RecyclerView
        adapter = StudentAdapter(listOf()) { student ->
            val intent = Intent(this, DetailActivity::class.java)
            intent.putExtra("STUDENT_DATA", student)
            startActivity(intent)
        }
    }
}
```

```
recyclerView.layoutManager = LinearLayoutManager(this)
recyclerView.adapter = adapter

// Cấu hình Search
searchView.setOnQueryTextListener(object : SearchView.OnQueryTextListener {
    override fun onQueryTextSubmit(query: String?): Boolean = false
    override fun onQueryTextChange(newText: String?): Boolean {
        adapter.filter(newText ?: "")
        return true
    }
})

fetchData()
}

private fun fetchData() {
    val retrofit = Retrofit.Builder()
        .baseUrl("https://lebavui.io.vn/")
        .addConverterFactory(GsonConverterFactory.create())
        .build()

    val api = retrofit.create(StudentApi::class.java)

    api.getStudents().enqueue(object : Callback<List<Student>> {
        override fun onResponse(call: Call<List<Student>>, response: Response<List<Student>>) {
            if (response.isSuccessful) {
                val students = response.body() ?: emptyList()
                adapter.updateData(students)
            } else {
                Toast.makeText(this@MainActivity, "Lỗi server: ${response.code()}", Toast.LENGTH_SHORT).show()
            }
        }

        override fun onFailure(call: Call<List<Student>>, t: Throwable) {
            Toast.makeText(this@MainActivity, "Lỗi mạng: ${t.message}", Toast.LENGTH_SHORT).show()
        }
    })
}
```

```
    }  
}
```

### **activitydetail.xml**

```
<?xml version="1.0" encoding="utf-8"?>  
<ScrollView xmlns:android="http://schemas.android.com/apk/res/android"  
    xmlns:app="http://schemas.android.com/apk/res-auto"  
    android:layout_width="match_parent"  
    android:layout_height="match_parent"  
    android:background="@color/background_gray"  
    android:fillViewport="true">  
  
<androidx.constraintlayout.widget.ConstraintLayout  
    android:layout_width="match_parent"  
    android:layout_height="wrap_content"  
    android:paddingBottom="40dp">  
  
    <View  
        android:id="@+id/viewHeader"  
        android:layout_width="match_parent"  
        android:layout_height="180dp"  
        android:background="@color/primary"  
        app:layout_constraintTop_toTopOf="parent" />  
  
    <ImageButton  
        android:id="@+id/btnBack"  
        android:layout_width="48dp"  
        android:layout_height="48dp"  
        android:layout_marginStart="16dp"  
        android:layout_marginTop="16dp"  
        android:background="?attr/selectableItemBackgroundBorderless"  
        android:src="@android:drawable/ic_menu_revert"  
        app:tint="@color/white"  
        app:layout_constraintStart_toStartOf="parent"  
        app:layout_constraintTop_toTopOf="parent" />  
  
    <TextView  
        android:layout_width="wrap_content"  
        android:layout_height="wrap_content"
```

```
        android:text="Thông tin sinh viên"
        android:textColor="@color/white"
        android:textSize="20sp"
        android:textStyle="bold"
        app:layout_constraintBottom_toBottomOf="@+id	btnBack"
        app:layout_constraintEnd_toEndOf="parent"
        app:layout_constraintStart_toStartOf="parent"
        app:layout_constraintTop_toTopOf="@+id	btnBack" />

<androidx.cardview.widget.CardView
    android:id="@+id/cardAvatar"
    android:layout_width="140dp"
    android:layout_height="140dp"
    android:layout_marginTop="110dp"
    app:cardCornerRadius="70dp"
    app:cardElevation="8dp"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toTopOf="parent">

    <ImageView
        android:id="@+id/imgDetailAvatar"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:scaleType="centerCrop"
        android:src="@mipmap/ic_launcher" />
</androidx.cardview.widget.CardView>

<TextView
    android:id="@+id/tvDetailName"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="16dp"
    android:text="Nguyễn Văn A"
    android:textColor="@color/black"
    android:textSize="24sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/cardAvatar" />
```

```
<TextView
    android:id="@+id/tvDetailMssv"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="4dp"
    android:text="20201234"
    android:textColor="@color/primary"
    android:textSize="16sp"
    android:textStyle="bold"
    app:layout_constraintEnd_toEndOf="parent"
    app:layout_constraintStart_toStartOf="parent"
    app:layout_constraintTop_toBottomOf="@+id/tvDetailName" />

<androidx.cardview.widget.CardView
    android:layout_width="match_parent"
    android:layout_height="wrap_content"
    android:layout_margin="20dp"
    app:cardCornerRadius="12dp"
    app:cardElevation="4dp"
    app:cardBackgroundColor="@color/white"
    app:layout_constraintTop_toBottomOf="@+id/tvDetailMssv">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:padding="20dp">

        <TextView
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"
            android:text="Email"
            android:textColor="@color/text_gray"
            android:textSize="12sp" />

        <TextView
            android:id="@+id/tvDetailEmail"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
```

```

        android:layout_marginTop="4dp"
        android:text="email@example.com"
        android:textColor="@color/black"
        android:textSize="16sp" />

    <View
        android:layout_width="match_parent"
        android:layout_height="1dp"
        android:layout_marginVertical="12dp"
        android:background="#E0E0E0" />

    <TextView
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"
        android:text="Ngày sinh"
        android:textColor="@color/text_gray"
        android:textSize="12sp" />

    <TextView
        android:id="@+id/tvDetailDob"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_marginTop="4dp"
        android:text="01/01/2000"
        android:textColor="@color/black"
        android:textSize="16sp" />
    </LinearLayout>
</androidx.cardview.widget.CardView>

</androidx.constraintlayout.widget.ConstraintLayout>
</ScrollView>

```

### **Itemstudent.xml**

```

<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView
    xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:layout_width="match_parent"
    android:layout_height="wrap_content"

```

```
        android:layout_marginHorizontal="16dp"
        android:layout_marginVertical="8dp"
        app:cardCornerRadius="12dp"
        app:cardElevation="4dp"
        app:cardBackgroundColor="@color/white">

    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:gravity="center_vertical"
        android:orientation="horizontal"
        android:padding="12dp">

        <androidx.cardview.widget.CardView
            android:layout_width="70dp"
            android:layout_height="70dp"
            app:cardCornerRadius="35dp"
            app:cardElevation="0dp">

            <ImageView
                android:id="@+id/imgThumbnail"
                android:layout_width="match_parent"
                android:layout_height="match_parent"
                android:scaleType="centerCrop"
                android:src="@mipmap/ic_launcher" />
        </androidx.cardview.widget.CardView>

        <LinearLayout
            android:layout_width="0dp"
            android:layout_height="wrap_content"
            android:layout_marginStart="16dp"
            android:layout_weight="1"
            android:orientation="vertical">

            <TextView
                android:id="@+id/tvName"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                android:text="Tên Sinh Viên"
                android:textColor="@color/black"
```

```
        android:textSize="18sp"
        android:textStyle="bold" />

<TextView
    android:id="@+id/tvMssv"
    android:layout_width="wrap_content"
    android:layout_height="wrap_content"
    android:layout_marginTop="4dp"
    android:text="MSSV: 20201234"
    android:textColor="@color/text_gray"
    android:textSize="14sp" />
</LinearLayout>

<ImageView
    android:layout_width="24dp"
    android:layout_height="24dp"
    android:src="@android:drawable/ic_media_play"
    android:rotation="180"
    android:layout_gravity="center_vertical"
    app:tint="@color/text_gray"/>

</LinearLayout>
</androidx.cardview.widget.CardView>
```