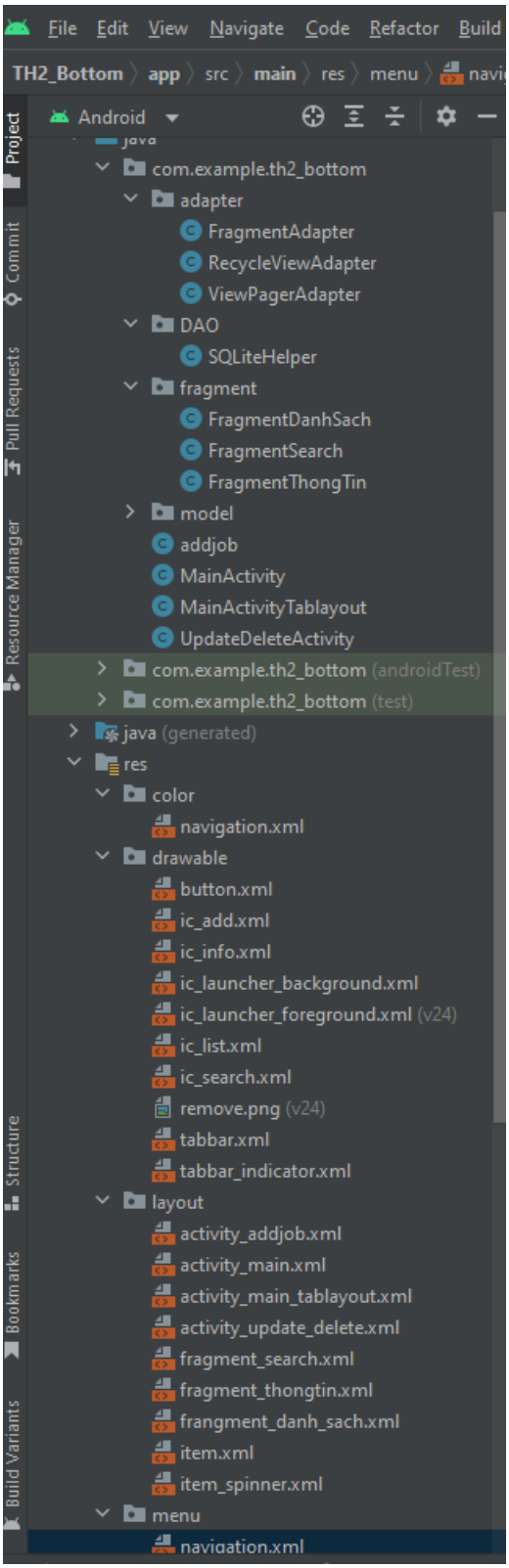
TH2:

BottomNarvigation:



Color/navigation.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<selector xmlns:android="http://schemas.android.com/apk/res/android">
    <item android:color="@color/white"
        android:state_checked="false"
        />
    <item android:color="@color/yellow"
        android:state_checked="true"/>
</selector>
```

Drawable/button.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<shape android:shape="rectangle"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <corners android:radius="15dp"/>
    <solid android:color="@color/yellow"/>
</shape>
```

Menu.navigation.xml:

```xml
<?xml version="1.0" encoding="utf-8"?>
<menu xmlns:android="http://schemas.android.com/apk/res/android">
    <item
        android:id="@+id/mHome"
        android:title="Danh sách"
        android:icon="@drawable/ic_list" />
    <item
        android:id="@+id/mHistory"
        android:title="Thông tin"
        android:icon="@drawable/ic_info" />
    <item
        android:id="@+id/mSearch"
        android:title="Tìm kiếm"
        android:icon="@drawable/ic_search" />
</menu>
```

```
RecycleViewAdapter:
package com.example.th2_bottom.adapter;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.recyclerview.widget.RecyclerView;


import com.example.th2_bottom.R;
import com.example.th2_bottom.model.CongViec;

import java.util.ArrayList;
import java.util.List;
```

```
public class RecycleViewAdapter extends
RecyclerView.Adapter<RecycleViewAdapter.HomeViewHolder>{
    private List<CongViec> list;
    private ItemListener itemListener;
    public RecycleViewAdapter() {
        list = new ArrayList<>();
    }

    public List<CongViec> getList() {
        return list;
    }

    public void setList(List<CongViec> list) {
        this.list = list;
        notifyDataSetChanged();
    }

    public void setItemListener(ItemListener itemListener) {
        this.itemListener = itemListener;
    }

    public CongViec getItem(int p) {
        return list.get(p);
    }

    @NonNull
    @Override
    public HomeViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int
viewType) {
        View view =
LayoutInflater.from(parent.getContext()).inflate(R.layout.item, parent,
false);

        return new HomeViewHolder(view);
    }

    @Override
    public void onBindViewHolder(@NonNull HomeViewHolder holder, int
position) {
        CongViec congViec = list.get(position);
        holder.name.setText(congViec.getName());
        holder.content.setText(congViec.getContent());
        holder.date.setText(congViec.getDate());
        holder.status.setText(congViec.getStatus());

holder.together.setText(ChinhTogether(congViec.getTogether()).toString());
    }

    public String ChinhTogether(int a) {
        String ctac = "";
        if(a == 0) {
            ctac = "Làm chung";
        }
        else {
            ctac = "Một mình";
        }
        return ctac;
```

```
    }


    @Override
    public int getItemCount() {
        return list.size();
    }

    public class HomeViewHolder extends RecyclerView.ViewHolder implements
View.OnClickListener{
        private TextView name, content, status, date, together;

        public HomeViewHolder(@NonNull View itemView) {
            super(itemView);
            name = itemView.findViewById(R.id.tvName);
            content = itemView.findViewById(R.id.tvContent);
            date = itemView.findViewById(R.id.tvDate);
            status = itemView.findViewById(R.id.tvStatus);
            together = itemView.findViewById(R.id.tvTogether);
            itemView.setOnClickListener(this);
        }

        @Override
        public void onClick(View view) {
            if(itemListener != null) {
                itemListener.onItemClick(view, getAdapterPosition());
            }
        }
    }
    public interface ItemListener {
        void onItemClick(View view, int position);
    }
}
```

ViewPagerAdapter:

```
package com.example.th2_bottom.adapter;

import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentStatePagerAdapter;

import com.example.th2_bottom.fragment.FragmentDanhSach;
import com.example.th2_bottom.fragment.FragmentSearch;
import com.example.th2_bottom.fragment.FragmentThongTin;


public class ViewPagerAdapter extends FragmentStatePagerAdapter {


    public ViewPagerAdapter(@NonNull FragmentManager fm, int behavior) {
        super(fm, behavior);
    }

    @NonNull
    @Override
    public Fragment getItem(int position) {
```

```
        switch (position) {
            case 0: return new FragmentDanhSach();
            case 1: return new FragmentThongTin();
            case 2: return new FragmentSearch();
            default: new FragmentDanhSach();
        }
        return null;
    }

    @Override
    public int getCount() {
        return 3;
    }
}
```

SQLiteHelper:

```
package com.example.th2_bottom.DAO;

import android.content.ContentValues;
import android.content.Context;
import android.database.Cursor;
import android.database.sqlite.SQLiteDatabase;
import android.database.sqlite.SQLiteOpenHelper;

import androidx.annotation.Nullable;

import com.example.th2_bottom.model.CongViec;

import java.util.ArrayList;
import java.util.Arrays;
import java.util.HashMap;
import java.util.List;
import java.util.Map;

public class SQLiteHelper extends SQLiteOpenHelper {
    private static final String DATABASE_NAME = "CongViecs.db";
    private static int DATABASE_VERSION = 1;
    public SQLiteHelper(@Nullable Context context) {
        super(context, DATABASE_NAME, null, DATABASE_VERSION);
    }

    @Override
    public void onCreate(SQLiteDatabase sqLiteDatabase) {
        String sql = "CREATE TABLE CongViecs("+
                "id INTEGER PRIMARY KEY AUTOINCREMENT, " +
                "name TEXT, content TEXT, date TEXT, status TEXT," +
                "together INTEGER)";
        sqLiteDatabase.execSQL(sql);
    }

    @Override
    public void onUpgrade(SQLiteDatabase sqLiteDatabase, int i, int i1) {

    }
```

```
    @Override
    public void onOpen(SQLiteDatabase db) {
        super.onOpen(db);
    }

    public List<CongViec> getAll() {
        List<CongViec> list = new ArrayList<>();
        SQLiteDatabase st = getReadableDatabase();
        String order = "date DESC";
        Cursor rs = st.query("CongViecs", null, null, null, null, null,
order);
        while (rs != null && rs.moveToNext()){
            int id = rs.getInt(0);
            String name = rs.getString(1);
            String content = rs.getString(2);
            String date = rs.getString(3);
            String status = rs.getString(4);
            int together = rs.getInt(5);
            list.add(new CongViec(id, name, content, date, status,
together));
        }
        return list;
    }
    public long addItem(CongViec i) {
        ContentValues values = new ContentValues();
        values.put("name", i.getName());
        values.put("content", i.getContent());
        values.put("date", i.getDate());
        values.put("status", i.getStatus());
        values.put("together", i.getTogether());
        SQLiteDatabase sqLiteDatabase = getWritableDatabase();
        return sqLiteDatabase.insert("CongViecs", null, values);
    }
    //    Lay các item theo date:
    public List<CongViec> getByDate(String date) {
        List<CongViec> list = new ArrayList<>();
        String whereClause = "date like ?";
        String[] whereArgs = {date};
        SQLiteDatabase st = getReadableDatabase();
        Cursor rs = st.query("CongViecs", null, whereClause, whereArgs,
null,null, null);
        while (rs!=null && rs.moveToNext()) {
            int id = rs.getInt(0);
            String name = rs.getString(1);
            String content = rs.getString(2);
            String status = rs.getString(4);
            int together = rs.getInt(5);
            list.add(new CongViec(id, name, content, date, status,
together));
        }
        return list;
    }
    public List<CongViec> searchByTitle(String key) {
        List<CongViec> list = new ArrayList<>();
//        String whereClause = "name like ?";
//        String[] whereArgs = {"%"+key+"%"};
```

```
        String whereClause = "name LIKE ? OR content LIKE ?";
        String[] whereArgs = {"%"+key+"%", "%"+key+"%"};
        SQLiteDatabase st = getReadableDatabase();
        Cursor rs = st.query("CongViecs", null, whereClause, whereArgs,
null,null, null);
        while (rs!=null && rs.moveToNext()) {
            int id = rs.getInt(0);
            String name = rs.getString(1);
            String content = rs.getString(2);
            String date = rs.getString(3);
            String status = rs.getString(4);
            int together = rs.getInt(5);
            list.add(new CongViec(id, name, content, date, status,
together));
        }
        return list;
    }

    public String countByStatus() {
//        Map<String, Integer> countMap = new HashMap<>();
        String result = "";
        String query = "SELECT status, COUNT(*) FROM CongViecs GROUP BY
status ORDER BY COUNT(*) DESC";
        SQLiteDatabase db = getReadableDatabase();
        Cursor cursor = db.rawQuery(query, null);
        while (cursor != null && cursor.moveToNext()) {
            String status = cursor.getString(0);
            int count = cursor.getInt(1);
//            countMap.put(status, count);
            result += status + " : " + String.valueOf(count) + "\n";
        }
//        StringBuilder sb = new StringBuilder();
//        for (Map.Entry<String, Integer> entry : countMap.entrySet()) {
//            sb.append(entry.getKey() + " : " + entry.getValue() + "\n");
//        }
//        result = sb.toString();
        return result;
    }

    public List<CongViec> searchByCategory(String category) {
        List<CongViec> list = new ArrayList<>();
        String whereClause = "status like ?";
        String[] whereArgs = {category};
        SQLiteDatabase st = getReadableDatabase();
        Cursor rs = st.query("CongViecs", null, whereClause, whereArgs,
null,null, null);
        while (rs!=null && rs.moveToNext()) {
            int id = rs.getInt(0);
            String name = rs.getString(1);
            String content = rs.getString(2);
            String date = rs.getString(3);
            String status = rs.getString(4);
            int together = rs.getInt(5);
            list.add(new CongViec(id, name, content, date, status,
together));
        }
        return list;
```

```
    }
    //    Update:
    public int update(CongViec i) {
        ContentValues values = new ContentValues();
        values.put("name", i.getName());
        values.put("content", i.getContent());
        values.put("date", i.getDate());
        values.put("status", i.getStatus());
        values.put("together", i.getTogether());
        SQLiteDatabase sqLiteDatabase = getWritableDatabase();
        String whereClase = "id = ?";
        String[] whereArgs = {Integer.toString(i.getId())};
        return sqLiteDatabase.update("CongViecs", values, whereClase,
whereArgs);
    }

    //    Delete:
    public int delete(int id) {
        String whereClase = "id = ?";
        String[] whereArgs = {Integer.toString(id)};
        SQLiteDatabase sqLiteDatabase = getWritableDatabase();
        return sqLiteDatabase.delete("CongViecs", whereClase, whereArgs);

    }
}
```

FragmentDanhSach:

```
package com.example.th2_bottom.fragment;

import android.content.Intent;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.example.th2_bottom.DAO.SQLiteHelper;
import com.example.th2_bottom.R;
import com.example.th2_bottom.UpdateDeleteActivity;
import com.example.th2_bottom.adapter.RecycleViewAdapter;
import com.example.th2_bottom.model.CongViec;

import java.text.SimpleDateFormat;
import java.util.Date;
import java.util.List;

public class FragmentDanhSach extends Fragment implements
RecycleViewAdapter.ItemListener{
```

```
    private RecyclerView recyclerView;
    RecycleViewAdapter adapter;
    private SQLiteHelper db;
    private TextView tvTong;

    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable
ViewGroup container, @Nullable Bundle savedInstanceState) {
        return inflater.inflate(R.layout.frangment_danh_sach, container,
false);
    }

    @Override
    public void onViewCreated(@NonNull View view, @Nullable Bundle
savedInstanceState) {
        super.onViewCreated(view, savedInstanceState);
        recyclerView = view.findViewById(R.id.recyclrView);
        tvTong = view.findViewById(R.id.tvTong);
        adapter = new RecycleViewAdapter();
        db = new SQLiteHelper(getContext());
        Date d = new Date();
        SimpleDateFormat f = new SimpleDateFormat("dd/MM/yyyy");
        List<CongViec> list = db.getByDate(f.format(d));
        adapter.setList(list);
        tvTong.setText("Tong so cong viec: " + (list.size()));
        LinearLayoutManager manager = new LinearLayoutManager(getContext(),
RecyclerView.VERTICAL, false);
        recyclerView.setLayoutManager(manager);
        recyclerView.setAdapter(adapter);
        adapter.setItemListener(this);
    }

    @Override
    public void onItemClick(View view, int position) {
        CongViec congViec = adapter.getItem(position);
        Intent intent = new Intent(getActivity(),
UpdateDeleteActivity.class);
        intent.putExtra("congViec", congViec);
        startActivity(intent);
    }

    @Override
    public void onResume() {
        super.onResume();
        Date d = new Date();
        SimpleDateFormat f = new SimpleDateFormat("dd/MM/yyyy");
        List<CongViec> list = db.getByDate(f.format(d));
        adapter.setList(list);
        tvTong.setText("Tong so cong viec: " + (list.size()));
    }
}
```

FragmentSearch:

```java
package com.example.th2_bottom.fragment;

import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.AdapterView;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.EditText;
import android.widget.SearchView;
import android.widget.Spinner;
import android.widget.TextView;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.example.th2_bottom.DAO.SQLiteHelper;
import com.example.th2_bottom.R;
import com.example.th2_bottom.adapter.RecycleViewAdapter;
import com.example.th2_bottom.model.CongViec;

import java.util.List;
import java.util.Map;

public class FragmentSearch extends Fragment implements View.OnClickListener{
    private RecyclerView recyclerView;
    private TextView tvTong, tvtke;
    private Button btSearch, btTke;
    private SearchView searchView;
    private Spinner spCategory;
    private RecycleViewAdapter adapter;
    private SQLiteHelper db;

    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable
ViewGroup container, @Nullable Bundle savedInstanceState) {
        return inflater.inflate(R.layout.fragment_search, container, false);
    }

    @Override
    public void onViewCreated(@NonNull View view, @Nullable Bundle
savedInstanceState) {
        super.onViewCreated(view, savedInstanceState);
        initView(view);
        adapter = new RecycleViewAdapter();
        db = new SQLiteHelper(getContext());
        List<CongViec> list = db.getAll();
        adapter.setList(list);
        tvTong.setText("Tong cong viec: " + list.size());
        LinearLayoutManager manager = new LinearLayoutManager(getContext(),
RecyclerView.VERTICAL, false);
        recyclerView.setLayoutManager(manager);
```

```
        recyclerView.setAdapter(adapter);
        searchView.setOnQueryTextListener(new
SearchView.OnQueryTextListener() {
            @Override
            public boolean onQueryTextSubmit(String s) {
                return false;
            }

            @Override
            public boolean onQueryTextChange(String s) {
                List<CongViec> list = db.searchByTitle(s);
                tvTong.setText("Tong cong viec: " + list.size());
                adapter.setList(list);
                return false;
            }
        });
//        btSearch.setOnClickListener(new View.OnClickListener() {
//            @Override
//            public void onClick(View view) {
//                String s = searchView.get
//                List<CongViec> list = db.searchByTitle(s);
//                tvTong.setText("Tong cong viec: " + list.size());
//                adapter.setList(list);
//                return false;
//            }
//        });
        btTke.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                String result = db.countByStatus();
                tvtke.setText("Thống kê số công việc theo tình trạng: \n"+
result);
            }
        });
        spCategory.setOnItemSelectedListener(new
AdapterView.OnItemSelectedListener() {
            @Override
            public void onItemSelected(AdapterView<?> adapterView, View view,
int p, long l) {
                String cate = spCategory.getItemAtPosition(p).toString();
                List<CongViec> list;
                if(!cate.equalsIgnoreCase("All")) {
                    list = db.searchByCategory(cate);

                }else{
                    list = db.getAll();
                }
                adapter.setList(list);
                tvTong.setText("Tong cong viec: " + list.size());
            }

            @Override
            public void onNothingSelected(AdapterView<?> adapterView) {

            }
        });
    }
```

```
    private void initView(View view) {
        recyclerView = view.findViewById(R.id.recyclrView);
        tvTong = view.findViewById(R.id.tvTong);
        tvtke = view.findViewById(R.id.tke);
        btTke = view.findViewById(R.id.btTke);
        searchView = view.findViewById(R.id.search);
        spCategory = view.findViewById(R.id.spCategory);
        String[] arr = getResources().getStringArray(R.array.status);
        String[] arr1 = new String[arr.length+1];
        arr1[0] = "All";
        for(int i = 0;i < arr.length;i++) {
            arr1[i+1] = arr[i];
        }
        spCategory.setAdapter(new
ArrayAdapter<String>(getContext(),R.layout.item_spinner, arr1));
    }

    @Override
    public void onClick(View view) {

    }
}
```

FragmentThongTin:

```
package com.example.th2_bottom.fragment;

import android.app.Activity;
import android.content.Intent;
import android.os.Bundle;
import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;
import android.widget.Button;
import android.widget.Toast;

import androidx.annotation.NonNull;
import androidx.annotation.Nullable;
import androidx.fragment.app.Fragment;
import androidx.recyclerview.widget.LinearLayoutManager;
import androidx.recyclerview.widget.RecyclerView;

import com.example.th2_bottom.DAO.SQLiteHelper;
import com.example.th2_bottom.R;
import com.example.th2_bottom.UpdateDeleteActivity;
import com.example.th2_bottom.adapter.RecycleViewAdapter;
import com.example.th2_bottom.addjob;
import com.example.th2_bottom.model.CongViec;

import java.util.List;

public class FragmentThongTin extends Fragment implements
RecycleViewAdapter.ItemListener{
    private RecycleViewAdapter adapter;
```

```
    private RecyclerView recyclerView;
    private SQLiteHelper db;

//    Tablayout:
    private Button btAdd;

    @Nullable
    @Override
    public View onCreateView(@NonNull LayoutInflater inflater, @Nullable
ViewGroup container, @Nullable Bundle savedInstanceState) {
        return inflater.inflate(R.layout.fragment_thongtin, container,
false);
    }

    @Override
    public void onViewCreated(@NonNull View view, @Nullable Bundle
savedInstanceState) {
        super.onViewCreated(view, savedInstanceState);
        recyclerView = view.findViewById(R.id.recyclrView);
        //    Tablayout:
        btAdd = view.findViewById(R.id.buttonAdd);

        adapter = new RecycleViewAdapter();
        db = new SQLiteHelper((getContext()));
//        CongViec i = new CongViec( "Quat nha1", "Quet 3 tang",
"04/04/2023", "Da hoan thanh", 1);
//        CongViec i2 = new CongViec ("Quat nha 2", "Quet 3 tang",
"13/04/2023", "Da hoan thanh", 1);
//        db.addItem(i);
//        db.addItem(i2);
        List<CongViec> list = db.getAll();
        adapter.setList(list);
        LinearLayoutManager manager = new
LinearLayoutManager(getContext(),RecyclerView.VERTICAL, false);
        recyclerView.setLayoutManager(manager);
        recyclerView.setAdapter(adapter);
        adapter.setItemListener(this);
        //    Tablayout:
        btAdd.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(getActivity(), addjob.class);
                startActivity(intent);
            }
        });
    }

    @Override
    public void onItemClick(View view, int position) {
        CongViec congViec = adapter.getItem(position);
        Intent intent = new Intent(getActivity(),
UpdateDeleteActivity.class);
        intent.putExtra("congViec", congViec);
        startActivity(intent);
//        Toast.makeText(getContext(), congViec.getName(),
Toast.LENGTH_SHORT).show();
    }
```

```
    @Override
    public void onResume() {
        super.onResume();
        List<CongViec>  list = db.getAll();
        adapter.setList(list);
    }
}
```

CongViec:

```
package com.example.th2_bottom.model;

import java.io.Serializable;

public class CongViec implements Serializable {
    private int id;
    private String name, content, date, status;
    private int together;

    public CongViec() {
    }

    public CongViec(int id, String name, String content, String date, String
status, int together) {
        this.id = id;
        this.name = name;
        this.content = content;
        this.date = date;
        this.status = status;
        this.together = together;
    }

    public CongViec(String name, String content, String date, String status,
int together) {
        this.name = name;
        this.content = content;
        this.date = date;
        this.status = status;
        this.together = together;
    }

    public int getId() {
        return id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
```

```
        this.name = name;
    }

    public String getContent() {
        return content;
    }

    public void setContent(String content) {
        this.content = content;
    }

    public String getDate() {
        return date;
    }

    public void setDate(String date) {
        this.date = date;
    }

    public String getStatus() {
        return status;
    }

    public void setStatus(String status) {
        this.status = status;
    }

    public int getTogether() {
        return together;
    }

    public void setTogether(int together) {
        this.together = together;
    }
}
```

addjob:

```
package com.example.th2_bottom;

import androidx.appcompat.app.AppCompatActivity;

import android.app.DatePickerDialog;
import android.os.Bundle;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.Spinner;

import com.example.th2_bottom.DAO.SQLiteHelper;
import com.example.th2_bottom.model.CongViec;

import java.util.Calendar;
```

```
public class addjob extends AppCompatActivity implements
View.OnClickListener{
    public Spinner sp;
    private EditText eTitle, eContent, eDate;
    private Button btUpdate, btCancel, btSedate;
    private RadioButton btChung, btRieng;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_addjob);
        initView();
        btCancel.setOnClickListener(this);
        btUpdate.setOnClickListener(this);
        btSedate.setOnClickListener(this);
        eDate.setOnClickListener(this);
    }
    private void initView() {
        sp = findViewById(R.id.spCategory);
        eTitle = findViewById(R.id.tvTitle);
        eContent = findViewById(R.id.tvContent);
        eDate = findViewById(R.id.tvDate);
        btUpdate = findViewById(R.id.btUpdate);
        btCancel = findViewById(R.id.btCancel);
        btSedate = findViewById(R.id.btSedate);
        btRieng = findViewById(R.id.rRieng);
        btChung = findViewById(R.id.rChung);
        sp.setAdapter(new ArrayAdapter<String>(this,
R.layout.item_spinner,getResources().getStringArray(R.array.status)));
    }

    @Override
    public void onClick(View view) {
        if(view == btSedate){
            final Calendar c = Calendar.getInstance();
            int year = c.get(Calendar.YEAR);
            int month = c.get(Calendar.MONTH);
            int day = c.get(Calendar.DAY_OF_MONTH);
            DatePickerDialog dialog = new DatePickerDialog(addjob.this, new
DatePickerDialog.OnDateSetListener() {
                @Override
                public void onDateSet(DatePicker datePicker, int y, int m,
int d) {
                    String date = "";
                    if(m > 8) {
                        date = d+"/"+(m+1)+"/"+y;

                    }else{
                        date = d+"/0"+(m+1)+"/"+y;
                    }
                    if(d <= 9) {
                        date = "0" + date;
                    }
                    eDate.setText(date);
                }
            },year, month, day);
            dialog.show();
```

```
        }
        if(view==btCancel) {
            finish();
        }
        if(view == btUpdate) {
            String t = eTitle.getText().toString();//name
            String p = eContent.getText().toString();//content
            String c = sp.getSelectedItem().toString();
            String d = eDate.getText().toString();
            int select = 0;
            if(btRieng.isChecked()) {
                select = 1;
            }
            if(btChung.isChecked()) {
                select = 0;
            }
            if(!t.isEmpty()) {
                CongViec i = new CongViec(t,p, d, c, select);
                SQLiteHelper db = new SQLiteHelper(this);
                db.addItem(i);
                finish();

            }
        }
    }
}
```

```
MainActivity:
package com.example.th2_bottom;

import androidx.annotation.NonNull;
import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.FragmentStatePagerAdapter;
import androidx.viewpager.widget.ViewPager;

import android.content.Intent;
import android.os.Bundle;
import android.view.MenuItem;
import android.view.View;

import com.example.th2_bottom.adapter.ViewPagerAdapter;
import com.google.android.material.bottomnavigation.BottomNavigationView;
import com.google.android.material.floatingactionbutton.FloatingActionButton;

public class MainActivity extends AppCompatActivity {
    private BottomNavigationView navigationView;
    private ViewPager viewPager;
    private FloatingActionButton fab;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main);
        navigationView = findViewById(R.id.bottom_nav);
        viewPager = findViewById(R.id.viewPager);
        fab = findViewById(R.id.fab);
```

```
        fab.setOnClickListener(new View.OnClickListener() {
            @Override
            public void onClick(View view) {
                Intent intent = new Intent(MainActivity.this, addjob.class);
                startActivity(intent);
            }
        });
        ViewPagerAdapter adapter = new
ViewPagerAdapter(getSupportFragmentManager(),
FragmentStatePagerAdapter.BEHAVIOR_RESUME_ONLY_CURRENT_FRAGMENT);
        viewPager.setAdapter(adapter);
        viewPager.addOnPageChangeListener(new
ViewPager.OnPageChangeListener() {
            @Override
            public void onPageScrolled(int position, float positionOffset,
int positionOffsetPixels) {

            }

            @Override
            public void onPageSelected(int position) {
                switch (position) {
                    case 0:
navigationView.getMenu().findItem(R.id.mHome).setChecked(true);
                        break;
                    case 1:
navigationView.getMenu().findItem(R.id.mHistory).setChecked(true);
                        break;
                    case 2:
navigationView.getMenu().findItem(R.id.mSearch).setChecked(true);
                        break;
                }
            }

            @Override
            public void onPageScrollStateChanged(int state) {

            }
        });
        navigationView.setOnNavigationItemSelectedListener(new
BottomNavigationView.OnNavigationItemSelectedListener() {
            @Override
            public boolean onNavigationItemSelected(@NonNull MenuItem item) {
                switch (item.getItemId()){
                    case R.id.mHome: viewPager.setCurrentItem(0);
                        break;
                    case R.id.mHistory: viewPager.setCurrentItem(1);
                        break;
                    case R.id.mSearch: viewPager.setCurrentItem(2);
                        break;
                }
                return true;
            }
        });
    }
}
```

UpdateDeleteActivity:

```
package com.example.th2_bottom;

import android.app.AlertDialog;
import android.app.DatePickerDialog;
import android.content.DialogInterface;
import android.content.Intent;
import android.os.Bundle;
import android.view.View;
import android.widget.ArrayAdapter;
import android.widget.Button;
import android.widget.DatePicker;
import android.widget.EditText;
import android.widget.RadioButton;
import android.widget.Spinner;

import androidx.appcompat.app.AppCompatActivity;


import com.example.th2_bottom.DAO.SQLiteHelper;
import com.example.th2_bottom.model.CongViec;

import java.util.Calendar;

public class UpdateDeleteActivity extends AppCompatActivity implements
View.OnClickListener {
    public Spinner sp;
    private EditText eName, eContent, eDate;
    private Button btUpdate, btBack, btRemove, btDate;
    private RadioButton btChung, btRieng;
    private CongViec congViec;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_update_delete);
        initView();
        btBack.setOnClickListener(this);
        btUpdate.setOnClickListener(this);
        btRemove.setOnClickListener(this);

        btDate.setOnClickListener(this);
        Intent intent = getIntent();
        congViec = (CongViec)intent.getSerializableExtra("congViec");
        eName.setText(congViec.getName());
        eContent.setText(congViec.getContent());
        eDate.setText(congViec.getDate());
        int p = 0 ;
        for(int i = 0;i < sp.getCount();i++) {

if(sp.getItemAtPosition(i).toString().equalsIgnoreCase(congViec.getStatus()))
{
                p = i;
                break;
            }
        }
        int together = congViec.getTogether();
```

```
        if(together == 0) {
            btChung.setChecked(true);
        }else if(together == 1) {
            btRieng.setChecked(true);
        }

        sp.setSelection(p);
    }
    private void initView() {
        sp = findViewById(R.id.spCategory);
        eName = findViewById(R.id.tvTitle);
        eContent = findViewById(R.id.tvContent);
        eDate = findViewById(R.id.tvDate);
        btRieng = findViewById(R.id.rRieng);
        btChung = findViewById(R.id.rChung);
        btUpdate = findViewById(R.id.btUpdate);
        btDate = findViewById(R.id.btSedate);
        btBack = findViewById(R.id.btBack);
        btRemove = findViewById(R.id.btRemove);
        sp.setAdapter(new ArrayAdapter<String>(this,
R.layout.item_spinner,getResources().getStringArray(R.array.status)));
    }

    @Override
    public void onClick(View view) {
        SQLiteHelper db = new SQLiteHelper(this);
        if(view == btDate){
            final Calendar c = Calendar.getInstance();
            int year = c.get(Calendar.YEAR);
            int month = c.get(Calendar.MONTH);
            int day = c.get(Calendar.DAY_OF_MONTH);
            DatePickerDialog dialog = new
DatePickerDialog(UpdateDeleteActivity.this, new
DatePickerDialog.OnDateSetListener() {
                @Override
                public void onDateSet(DatePicker datePicker, int y, int m,
int d) {
                    String date = "";
                    if(m > 8) {
                        date = d+"/"+(m+1)+"/"+y;

                    }else{
                        date = d+"/0"+(m+1)+"/"+y;
                    }
                    if(d <= 9) {
                        date = "0" + date;
                    }
                    eDate.setText(date);
                }
            },year, month, day);
            dialog.show();
        }
        if(view == btBack) {
            finish();
        }
        if(view == btUpdate){
            String t = eName.getText().toString();
```

```
            String p = eContent.getText().toString();
            String c = sp.getSelectedItem().toString();
            String d = eDate.getText().toString();
            int select = 0;
            if(btRieng.isChecked()) {
                select = 1;
            }
            if(btChung.isChecked()) {
                select = 0;
            }
            if(!t.isEmpty()) {
                int id = congViec.getId();
                CongViec i = new CongViec(id,t,p,d,c,select);
                db = new SQLiteHelper(this);
                db.update(i);
                finish();

            }
        }
        if(view==btRemove) {
            int id = congViec.getId();
            AlertDialog.Builder builder = new
AlertDialog.Builder(view.getContext());
            builder.setTitle("Thong bao xoa");
            builder.setMessage("Ban co chac muon xoa " + congViec.getName() +
" nay khong?");
            builder.setIcon(R.drawable.remove);
            builder.setPositiveButton("Co", new
DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialogInterface, int i) {
                    SQLiteHelper bb = new
SQLiteHelper(getApplicationContext());
                    bb.delete(id);

                    finish();
                }
            });
            builder.setNegativeButton("Khong", new
DialogInterface.OnClickListener() {
                @Override
                public void onClick(DialogInterface dialogInterface, int i) {

                }
            });
            AlertDialog dialog = builder.create();
            dialog.show();
        }
    }
}
```

Layout:

Activity_addjob.xml:

```xml
<?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"
    tools:context=".addjob"
    android:orientation="vertical"
    >
    <LinearLayout
        android:background="@color/yellow"
        android:orientation="vertical"
        android:layout_width="match_parent"
        android:layout_height="80dp">
        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:text="Them chi tieu"
            android:textSize="22dp"
            android:textStyle="bold"
            android:layout_marginTop="10dp"
            android:gravity="center"
            android:textColor="@color/white"
            />
    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:layout_marginTop="20dp"
        android:background="@color/gray"
        android:layout_marginRight="5dp"
        android:layout_marginLeft="10dp">
        <EditText
            android:id="@+id/tvTitle"
            android:hint="Enter name"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>
        <EditText
            android:id="@+id/tvContent"
            android:hint="Enter content"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>
        <Spinner
            android:id="@+id/spCategory"

            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>
        <LinearLayout
            android:orientation="horizontal"
            android:weightSum="2"
            android:layout_marginTop="20dp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <EditText
                android:id="@+id/tvDate"
                android:layout_width="180dp"
```

```
                android:layout_weight="1"
                android:layout_height="wrap_content"
                android:hint="Select date" />
            <Button
                android:id="@+id/btSedate"
                android:background="@drawable/button"
                android:layout_weight="1"
                android:layout_marginLeft="5dp"
                android:text="Chon ngay"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"/>
        </LinearLayout>
        <LinearLayout
            android:orientation="horizontal"
            android:layout_marginTop="20dp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <RadioGroup
                android:layout_width="match_parent"
                android:layout_height="wrap_content">
                <RadioButton
                    android:id="@+id/rRieng"
                    android:checked="true"
                    android:layout_width="match_parent"
                    android:layout_height="wrap_content"
                    android:text="Làm một mình">
                </RadioButton>
                <RadioButton
                    android:id="@+id/rChung"
                    android:layout_width="wrap_content"
                    android:text="Làm chung"
                    android:layout_height="wrap_content">
                </RadioButton>

            </RadioGroup>
        </LinearLayout>


    </LinearLayout>
    <LinearLayout
        android:orientation="horizontal"
        android:weightSum="2"
        android:layout_marginTop="20dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <Button
            android:id="@+id/btUpdate"
            android:background="@drawable/button"
            android:layout_weight="1"
            android:layout_marginLeft="5dp"
            android:text="Them chi tieu"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"/>
        <Button
            android:id="@+id/btCancel"
            android:background="@drawable/button"
            android:layout_weight="1"
```

```
            android:layout_marginLeft="5dp"
            android:text="Cancel"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"/>
    </LinearLayout>
</LinearLayout>
```

Activity_main.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<RelativeLayout 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">
    <androidx.viewpager.widget.ViewPager
        android:id="@+id/viewPager"
        android:layout_width="match_parent"
        android:layout_height="match_parent"
        android:layout_above="@id/bottom_nav"/>
    <com.google.android.material.bottomnavigation.BottomNavigationView
        android:id="@+id/bottom_nav"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:layout_alignParentBottom="true"
        app:itemTextColor="@color/navigation"
        app:itemIconTint="@color/navigation"
        app:menu="@menu/navigation"
        />
    <com.google.android.material.floatingactionbutton.FloatingActionButton
        android:id="@+id/fab"
        android:layout_alignParentBottom="true"
        android:layout_alignParentRight="true"
        android:layout_marginBottom="60dp"
        android:layout_marginRight="20dp"
        android:src="@drawable/ic_add"
        android:backgroundTint="@color/yellow"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
</RelativeLayout>
```

Activity_update_delete.xml:

```
<?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"
    tools:context=".addjob"
    android:orientation="vertical"
    >

    <LinearLayout
```

```
        android:layout_width="match_parent"
        android:layout_height="80dp"
        android:background="@color/yellow"
        android:orientation="vertical">

        <TextView
            android:layout_width="match_parent"
            android:layout_height="match_parent"
            android:layout_marginTop="10dp"
            android:gravity="center"
            android:text="Them chi tieu"
            android:textColor="@color/white"
            android:textSize="22dp"
            android:textStyle="bold" />
    </LinearLayout>
    <LinearLayout
        android:layout_width="match_parent"
        android:layout_height="wrap_content"
        android:orientation="vertical"
        android:layout_marginTop="20dp"
        android:background="@color/gray"
        android:layout_marginRight="5dp"
        android:layout_marginLeft="10dp">
        <EditText
            android:id="@+id/tvTitle"
            android:hint="Enter name"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>
        <EditText
            android:id="@+id/tvContent"
            android:hint="Enter content"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>
        <Spinner
            android:id="@+id/spCategory"

            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>
        <LinearLayout
            android:orientation="horizontal"
            android:weightSum="2"
            android:layout_marginTop="20dp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <EditText
                android:id="@+id/tvDate"
                android:layout_width="180dp"
                android:layout_weight="1"
                android:layout_height="wrap_content"
                android:hint="Select date" />
            <Button
                android:id="@+id/btSedate"
                android:background="@drawable/button"
                android:layout_weight="1"
                android:layout_marginLeft="5dp"
                android:text="Chon ngay"
                android:layout_width="wrap_content"
```

```
            android:layout_height="wrap_content"/>
    </LinearLayout>
    <LinearLayout
        android:orientation="horizontal"
        android:layout_marginTop="20dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <RadioGroup
            android:layout_width="match_parent"
            android:layout_height="wrap_content">
            <RadioButton
                android:id="@+id/rRieng"
                android:layout_width="match_parent"
                android:layout_height="wrap_content"
                android:text="Làm một mình">
            </RadioButton>
            <RadioButton
                android:id="@+id/rChung"
                android:layout_width="wrap_content"
                android:text="Làm chung"
                android:layout_height="wrap_content">
            </RadioButton>

        </RadioGroup>
    </LinearLayout>


</LinearLayout>
<LinearLayout
    android:orientation="horizontal"
    android:weightSum="3"
    android:layout_marginTop="20dp"
    android:layout_width="match_parent"
    android:layout_height="wrap_content">
    <Button
        android:id="@+id/btUpdate"
        android:background="@drawable/button"
        android:layout_weight="1"
        android:layout_marginLeft="5dp"
        android:text="Update"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
    <Button
        android:id="@+id/btRemove"
        android:background="@drawable/button"
        android:layout_weight="1"
        android:layout_marginLeft="5dp"
        android:text="Remove"
        android:layout_width="wrap_content"
        android:layout_height="wrap_content"/>
    <Button
        android:id="@+id/btBack"
        android:background="@drawable/button"
        android:layout_weight="1"
        android:layout_marginLeft="5dp"
        android:text="Back"
        android:layout_width="wrap_content"
```

```
            android:layout_height="wrap_content"/>
    </LinearLayout>
</LinearLayout>
```

Fragment_search.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:orientation="vertical">
    <TextView
        android:layout_width="wrap_content"
        android:text="Search: "
        android:textSize="20dp"
        android:layout_height="wrap_content"/>
    <SearchView
        android:id="@+id/search"
        android:layout_marginTop="10dp"
        app:iconifiedByDefault="false"
        app:queryHint="Nhap mon chi tieu"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>
<!--    <EditText-->
<!--        android:id="@+id/eFrom"-->
<!--        android:textSize="12dp"-->
<!--        android:hint="Chon tu ngay"-->
<!--        android:layout_width="match_parent"-->
<!--        android:layout_height="wrap_content"/>-->

<!--    <EditText-->
<!--        android:id="@+id/eTo"-->
<!--        android:textSize="12dp"-->
<!--        android:hint="Chon den ngay"-->
<!--        android:layout_width="match_parent"-->
<!--        android:layout_height="wrap_content"/>-->
    <LinearLayout
        android:orientation="horizontal"
        android:weightSum="2"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <Spinner
            android:id="@+id/spCategory"
            android:layout_weight="2"
            android:layout_gravity="center"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"/>
<!--        <Button-->
<!--            android:id="@+id/btSearch"-->
<!--            android:layout_weight="1"-->
<!--            android:text="Search"-->
<!--            android:background="@drawable/button"-->
<!--            android:layout_width="wrap_content"-->
<!--            android:layout_height="wrap_content"/>-->
    </LinearLayout>
```

```
    <TextView
        android:id="@+id/tvTong"
        android:textColor="@color/yellow"
        android:layout_marginLeft="20dp"
        android:textSize="15dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>
    <Button
        android:id="@+id/btTke"
        android:text="Thống kê"
        android:background="@drawable/button"
        android:layout_width="200dp"
        android:layout_height="wrap_content"/>
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recyclrView"
        android:layout_marginTop="10dp"
        android:layout_width="match_parent"
        android:layout_height="300dp"/>
    <TextView
        android:id="@+id/tke"
        android:layout_width="match_parent"
        android:lines="4"
        android:textSize="15dp"

        android:layout_height="wrap_content"/>
</LinearLayout>
```

Fragment_thongtin.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <LinearLayout
        android:orientation="vertical"
        android:background="@color/yellow"
        android:layout_width="match_parent"
        android:layout_height="100dp">
        <TextView
            android:layout_marginTop="10dp"
            android:textSize="20dp"
            android:textStyle="bold"
            android:text="Thông tin công việc"
            android:textColor="@color/white"
            android:layout_marginLeft="20dp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>

<!--        Tablayout-->
        <Button
            android:id="@+id/buttonAdd"
            android:backgroundTint="@color/gray"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"
            android:text="Thêm công việc" />
```

```
    </LinearLayout>
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recyclrView"
        android:layout_margin="10dp"
        android:layout_marginRight="10dp"
        android:layout_marginLeft="15dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>


</LinearLayout>
```

Fragment_danhsach.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<LinearLayout xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    android:orientation="vertical">
    <LinearLayout
        android:orientation="vertical"
        android:background="@color/yellow"
        android:layout_width="match_parent"
        android:layout_height="100dp">
        <TextView
            android:layout_marginTop="10dp"
            android:textSize="20dp"
            android:textStyle="bold"
            android:text="Danh sách công việc:"
            android:textColor="@color/white"
            android:layout_marginLeft="20dp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>
        <TextView
            android:id="@+id/tvTong"
            android:textSize="15dp"
            android:textStyle="bold"
            android:textColor="@color/white"
            android:layout_marginLeft="20dp"
            android:layout_width="match_parent"
            android:layout_height="wrap_content"/>

    </LinearLayout>
    <androidx.recyclerview.widget.RecyclerView
        android:id="@+id/recyclrView"
        android:layout_margin="-20dp"
        android:layout_marginRight="10dp"
        android:layout_marginLeft="15dp"
        android:layout_width="match_parent"
        android:layout_height="wrap_content"/>
</LinearLayout>
```

Item.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<androidx.cardview.widget.CardView
xmlns:android="http://schemas.android.com/apk/res/android"
    android:layout_width="match_parent"
    android:layout_height="70dp"
    xmlns:app="http://schemas.android.com/apk/res-auto"
    android:background="@color/gray"
    android:layout_margin="3dp"
    app:cardCornerRadius="5dp">
    <LinearLayout
        android:weightSum="4"
        android:orientation="horizontal"
        android:layout_width="match_parent"
        android:layout_height="wrap_content">
        <LinearLayout
            android:orientation="vertical"
            android:layout_weight="2"

            android:layout_width="100dp"
            android:layout_height="wrap_content">
            <TextView
                android:id="@+id/tvName"
                android:text="Đi quét cả nhà"
                android:width="70dp"
                android:textSize="16dp"
                android:layout_marginLeft="10dp"
                android:textStyle="bold"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                />
            <TextView
                android:id="@+id/tvDate"
                android:text="04/01/2023"
                android:textSize="16dp"
                android:layout_marginLeft="10dp"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                />
        </LinearLayout>
        <TextView
            android:id="@+id/tvContent"
            android:layout_gravity="center"
            android:layout_weight="1"
            android:lines="2"
            android:width="140dp"
            android:text="Đi quét cả nhà"
            android:layout_width="wrap_content"
            android:layout_height="wrap_content"/>
        <LinearLayout
            android:orientation="vertical"
            android:layout_weight="2"
            android:layout_width="110dp"
            android:layout_height="wrap_content">
            <TextView
                android:id="@+id/tvStatus"
                android:text="Đang thực hiện"
                android:textSize="16dp"
```

```
                android:layout_marginLeft="10dp"
                android:textColor="@color/teal_700"
                android:textStyle="bold"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                />
            <TextView
                android:id="@+id/tvTogether"
                android:text="Một mình"
                android:textSize="16dp"
                android:layout_marginLeft="10dp"
                android:layout_width="wrap_content"
                android:layout_height="wrap_content"
                />
        </LinearLayout>

    </LinearLayout>

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

Item_spinner.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<TextView android:layout_width="match_parent"
    android:layout_height="30dp"
    android:paddingLeft="15dp"
    android:textColor="@color/teal_700"
    xmlns:android="http://schemas.android.com/apk/res/android"/>
```

Tablayout:

Tabbar.xml:

```
<?xml version="1.0" encoding="utf-8"?>
<shape
    android:shape="rectangle"
    xmlns:android="http://schemas.android.com/apk/res/android">
    <corners android:radius="20dp"/>
    <solid android:color="@color/yellow"/>

</shape>
```

```
FragmentAdapter:
package com.example.th2_bottom.adapter;

import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;
import androidx.fragment.app.FragmentManager;
import androidx.fragment.app.FragmentStatePagerAdapter;

import com.example.th2_bottom.fragment.FragmentDanhSach;
import com.example.th2_bottom.fragment.FragmentSearch;
import com.example.th2_bottom.fragment.FragmentThongTin;
```

```
public class FragmentAdapter extends FragmentStatePagerAdapter {
    private int numPage=3;
    public FragmentAdapter(@NonNull FragmentManager fm, int num) {
        super(fm,num);
    }
    @NonNull
    @Override
    public Fragment getItem(int position) {
        switch (position){
            case 0:return new FragmentDanhSach();
            case 1:return new FragmentThongTin();
            case 2:return new FragmentSearch();
            default:return new FragmentDanhSach();
        }
    }
    @Override
    public int getCount() {
        return numPage;
    }
}
```

```
MainActivityTablayout:
package com.example.th2_bottom;

import androidx.appcompat.app.AppCompatActivity;
import androidx.fragment.app.FragmentStatePagerAdapter;
import androidx.viewpager.widget.ViewPager;

import android.os.Bundle;

import com.example.th2_bottom.adapter.FragmentAdapter;
import com.example.th2_bottom.model.CongViec;
import com.google.android.material.tabs.TabLayout;

import java.util.ArrayList;
import java.util.List;

public class MainActivityTablayout extends AppCompatActivity {
    public List<CongViec> list=new ArrayList<>();
    private TabLayout tabLayout;
    private ViewPager viewPager;
    private FragmentAdapter adapter;
    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_main_tablayout);
        tabLayout=findViewById(R.id.tab);
        viewPager=findViewById(R.id.viewPager);
        adapter=new FragmentAdapter(getSupportFragmentManager(),
FragmentStatePagerAdapter.BEHAVIOR_RESUME_ONLY_CURRENT_FRAGMENT);
        viewPager.setAdapter(adapter);
        tabLayout.setupWithViewPager(viewPager);
        tabLayout.getTabAt(0).setIcon(R.drawable.ic_list);
        tabLayout.getTabAt(1).setIcon(R.drawable.ic_info);
```

```
        tabLayout.getTabAt(2).setIcon(R.drawable.ic_search);

    }
}
```