THỰC HÀNH LẬP TRÌNH DI ĐỘNG

Họ và tên: Nguyễn Thành Nhân

Lớp: 19T2

MSV: 1911505310242

1. Tạo giao diện

1.1 Cách làm

1. activity\_main.xml

\_ Sử dụng Relative Layout:

+ Dùng hai EditText để nhập vào

+ Một TextView để hiển thị ngày

+ Hai Button: một Button dùng để đặt ngày và một Button để thêm vào danh sách

\_ Kết quả:

<?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"  
 android:paddingLeft="15sp"  
 android:paddingRight="15sp"  
 tools:context=".MainActivity">  
  
 <EditText  
 android:id="@+id/Title"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentTop="true"  
 android:hint="Title"  
 android:textColor="@color/black"  
 android:textSize="25sp" />  
  
 <EditText  
 android:id="@+id/edtEvent"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/Title"  
 android:hint="Event description"  
 android:textColor="@color/black"  
 android:textSize="25sp" />  
  
 <TextView  
 android:id="@+id/Date"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/edtEvent"  
 android:layout\_marginTop="5sp"  
 android:textSize="10sp" />  
  
 <Button  
 android:id="@+id/btnSetDate"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@id/edtEvent"  
 android:layout\_alignParentRight="true"  
 android:layout\_marginTop="20dp"  
 android:text="SET DATE" />  
  
 <Button  
 android:id="@+id/btnAdd"  
 android:layout\_width="match\_parent"  
 android:layout\_height="wrap\_content"  
 android:layout\_marginTop="200dp"  
 android:text="ADD EVENT" />  
  
</RelativeLayout>

1. MainActivity.java

\_ implements DatePickerDialog.OnDateSetListener

\_ Kết quả:

mport androidx.appcompat.app.AppCompatActivity;  
import androidx.fragment.app.DialogFragment;  
  
import android.app.DatePickerDialog;  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.EditText;  
import android.widget.TextView;  
  
import java.text.*DateFormat*;  
import java.util.*Calendar*;  
  
public class MainActivity extends AppCompatActivity implements DatePickerDialog.*OnDateSetListener* {  
 Button btnDate,btnAddEvent;  
 TextView textDate;  
 EditText txtTitle,txtEvent;  
 @Override  
 protected void onCreate(Bundle *savedInstanceState*) {  
 *super*.onCreate(*savedInstanceState*);  
 setContentView(R.layout.*activity\_main*);  
  
 btnDate = findViewById(R.id.*btnSetDate*);  
 textDate = findViewById(R.id.*Date*);  
 btnAddEvent = findViewById(R.id.*btnAdd*);  
 txtTitle = findViewById(R.id.*Title*);  
 txtEvent = findViewById(R.id.*edtEvent*);  
  
 btnDate.setOnClickListener(new View.*OnClickListener*() {  
 @Override  
 public void onClick(View *view*) {  
 DialogFragment datePicker = new DatePicker();  
 datePicker.show(getSupportFragmentManager(),"date picker");  
 }  
 });  
  
 btnAddEvent.setOnClickListener(new View.*OnClickListener*() {  
 @Override  
 public void onClick(View *view*) {  
 Intent intent = new Intent(MainActivity.*this*,ListViewActivity.class);  
 Bundle bundle = new Bundle();  
 Event event = new Event(String.*valueOf*(txtTitle.getText()),String.*valueOf*(txtEvent.getText()),String.*valueOf*(textDate.getText()));  
 bundle.putSerializable("objectEvent",event);  
 intent.putExtra("data",bundle);  
 startActivity(intent);  
 }  
 });  
  
 }  
  
 @Override  
 public void onDateSet(android.widget.DatePicker *datePicker*, int *year*, int *month*, int *day*) {  
 *Calendar* c = *Calendar*.*getInstance*();  
 c.set(*Calendar*.*YEAR*,*year*);  
 c.set(*Calendar*.*MONTH*,*month*);  
 c.set(*Calendar*.*DAY\_OF\_MONTH*,*day*);  
 String curentDateString = *DateFormat*.*getDateInstance*(*DateFormat*.*FULL*). format(c.getTime());  
 textDate.setText(curentDateString);  
 }  
  
  
}

* 1. Cách làm

1. activity\_list\_view.xml

\_ Sử dụng Relative Layout:

+ Dùng ListView để chứa danh sách

+ Dùng ImageView để chứa Icon

\_ Kết quả:

<?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"  
 android:paddingLeft="15sp"  
 tools:context=".MainActivity">  
  
 <ListView  
 android:id="@+id/lvEvent"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent"  
 app:layout\_constraintBottom\_toBottomOf="parent"  
 app:layout\_constraintEnd\_toEndOf="parent"  
 app:layout\_constraintStart\_toStartOf="parent"  
 android:layout\_marginBottom="100sp"  
 app:layout\_constraintTop\_toTopOf="parent" >  
 </ListView>  
  
 <ImageView  
 android:id="@+id/Add"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_alignParentEnd="true"  
 android:layout\_alignParentBottom="true"  
 android:layout\_marginEnd="44dp"  
 android:layout\_marginBottom="7dp"  
 android:src="@drawable/ic\_add\_circle\_80" />  
  
</RelativeLayout>

1. ListViewActivity.java

\_ Tạo một hàm dùng để xóa

\_ Kết quả:

import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.ImageView;  
import android.widget.ListView;  
  
import androidx.appcompat.app.AppCompatActivity;  
  
import java.util.ArrayList;  
  
public class ListViewActivity extends AppCompatActivity {  
 ImageView iconAdd;  
 ListView lvEvent;  
 ArrayList<Event> listEvent;  
 DescriptionAdapter adapter;  
 @Override  
 protected void onCreate(Bundle *savedInstanceState*) {  
 *super*.onCreate(*savedInstanceState*);  
 setContentView(R.layout.*activity\_list\_view*);  
 AnhXa();  
 adapter = new DescriptionAdapter(*this*,R.layout.*item\_day*, listEvent);  
 lvEvent.setAdapter(adapter);  
 iconAdd.setOnClickListener(new View.*OnClickListener*() {  
 @Override  
 public void onClick(View *view*) {  
 Intent intent = new Intent(ListViewActivity.*this*,MainActivity.class);  
 startActivity(intent);  
 }  
 });  
 }  
  
 public void Xoa(final int *position*){  
 listEvent.remove(*position*);  
 adapter.notifyDataSetChanged();  
 }  
 private void AnhXa() {  
 Intent intent = getIntent();  
 Bundle bundle = intent.getBundleExtra("data");  
 iconAdd = findViewById(R.id.*Add*);  
 listEvent = new ArrayList<>();  
 Event ev = (Event) bundle.getSerializable("objectEvent");  
 lvEvent = findViewById(R.id.*lvEvent*);  
 listEvent.add(ev);  
 }  
}

* 1. Cách làm

1. item\_day.xml

\_ Sử dụng Relative Layout

+ Dùng ba TextView để hiển thị tên, sự kiện và ngày

+ Dùng ImageView để hiển thị Icon

\_ Kết quả:

<?xml version="1.0" encoding="utf-8"?>  
<RelativeLayout  
 xmlns:android="http://schemas.android.com/apk/res/android"  
 android:layout\_width="match\_parent"  
 android:layout\_height="match\_parent">  
  
 <TextView  
 android:id="@+id/title"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:text="New Day"  
 android:textColor="@color/black"  
 android:textSize="30sp"  
 android:textStyle="bold" />  
  
 <TextView  
 android:id="@+id/event"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/title"  
 android:layout\_marginTop="7sp"  
 android:text="Event Description"  
 android:textColor="#434141"  
 android:textSize="17sp"  
 android:textStyle="bold" />  
  
 <TextView  
 android:id="@+id/date"  
 android:layout\_width="wrap\_content"  
 android:layout\_height="wrap\_content"  
 android:layout\_below="@+id/event"  
 android:layout\_marginTop="5sp"  
 android:textColor="#FF0000"  
 android:textSize="16sp" />  
  
 <ImageView  
 android:id="@+id/delete"  
 android:layout\_width="50dp"  
 android:layout\_height="50dp"  
 android:layout\_alignParentRight="true"  
 android:layout\_marginTop="5sp"  
 android:layout\_marginRight="30sp"  
 android:src="@drawable/ic\_baseline\_delete\_24" />  
  
</RelativeLayout>

1. Kết quả
2. import android.content.*Context*;  
   import android.view.*LayoutInflater*;  
   import android.view.View;  
   import android.view.*ViewGroup*;  
   import android.widget.*BaseAdapter*;  
   import android.widget.ImageView;  
   import android.widget.TextView;  
   import android.widget.Toast;  
     
   import java.util.*List*;  
     
   public class DescriptionAdapter extends *BaseAdapter* {  
    ImageView iconAdd;  
    ImageView iconDelete;  
     
    private ListViewActivity mContext;  
    private int layout;  
    private *List*<Event> listEvent;  
     
    public DescriptionAdapter(ListViewActivity *context*, int *layout*, *List*<Event> *listEvent*) {  
    *this*.mContext = *context*;  
    *this*.layout = *layout*;  
    *this*.listEvent = *listEvent*;  
    }  
    private class ViewHolder{  
    TextView title,eventDescription,date;  
    }  
     
     
    @Override  
    public int getCount() {  
    return listEvent.size();  
    }  
     
    @Override  
    public Object getItem(int *i*) {  
    return null;  
    }  
     
    @Override  
    public long getItemId(int *i*) {  
    return 0;  
    }  
     
    @Override  
    public View getView(int *i*, View view, *ViewGroup viewGroup*) {  
    ViewHolder viewHolder;  
     
    if(*view* == null){  
    *LayoutInflater* inflater = (*LayoutInflater*) mContext.getSystemService(*Context*.*LAYOUT\_INFLATER\_SERVICE*);  
    view = inflater.inflate(layout,null);  
     
    *//Ánh xạ* viewHolder = new ViewHolder();  
    viewHolder.title = view.findViewById(R.id.*title*);  
    viewHolder.eventDescription = view.findViewById(R.id.*event*);  
    viewHolder.date = view.findViewById(R.id.*date*);  
    iconDelete = view.findViewById(R.id.*delete*);  
     
    view.setTag(viewHolder);  
    }else{  
    viewHolder = (ViewHolder) view.getTag();  
    }  
    Event ev = listEvent.get(*i*);  
    viewHolder.title.setText(ev.getTitle());  
    viewHolder.eventDescription.setText(ev.getEventDescription());  
    viewHolder.date.setText(ev.getDate());  
     
    *//Xóa một Event* iconDelete.setOnClickListener(new View.*OnClickListener*() {  
    @Override  
    public void onClick(View *view*) {  
    Toast.*makeText*(mContext, "Bạn đã xóa một event", Toast.*LENGTH\_SHORT*).show();  
    mContext.Xoa(i);  
    }  
    });  
     
    return view;  
    }  
   }

1.3 Kết quả

a. Event.java

import java.io.*Serializable*;  
  
public class Event implements *Serializable* {  
 String title, eventDescription, date;  
  
 public Event(String *title*, String *eventDescription*, String *date*) {  
 *this*.title = *title*;  
 *this*.eventDescription = *eventDescription*;  
 *this*.date = *date*;  
 }  
  
 public String getTitle() {  
 return title;  
 }  
  
 public void setTitle(String *title*) {  
 *this*.title = *title*;  
 }  
  
 public String getEventDescription() {  
 return eventDescription;  
 }  
  
 public void setEventDescription(String *eventDescription*) {  
 *this*.eventDescription = *eventDescription*;  
 }  
  
 public String getDate() {  
 return date;  
 }  
  
 public void setDate(String *date*) {  
 *this*.date = *date*;  
 }  
}

1.4 Kết quả

a. DatePicker.java

import android.app.DatePickerDialog;  
import android.app.Dialog;  
import android.os.Bundle;  
  
import androidx.annotation.NonNull;  
import androidx.annotation.Nullable;  
import androidx.fragment.app.DialogFragment;  
  
import java.util.*Calendar*;  
  
public class DatePicker extends DialogFragment{  
  
 @NonNull  
 @Override  
 public Dialog onCreateDialog(@Nullable Bundle *savedInstanceState*) {  
 *Calendar* c = *Calendar*.*getInstance*();  
 int year = c.get(*Calendar*.*YEAR*);  
 int month = c.get(*Calendar*.*MONTH*);  
 int day = c.get(*Calendar*.*DAY\_OF\_MONTH*);  
 return new DatePickerDialog(getActivity(),(DatePickerDialog.*OnDateSetListener*) getActivity(),year,month,day);  
 }  
}

1. Kết quả khi chạy

