

**KHOA CÔNG NGHỆ THÔNG TIN**

**MÔN: LẬP TRÌNH DI ĐỘNG**

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**BÁO CÁO ĐỒ ÁN CUỐI KỲ**

**\*\*\***

**THIẾT KẾ ỨNG DỤNG ĐẶT VÉ XEM PHIM**

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**MỤC LỤC**

[**CHI TIẾT HƯỚNG DẪN XÂY DỰNG VÀ PHÁT TRIỂN TỪNG CHỨC NĂNG CỦA ỨNG DỤNG ĐẶT VÉ XEM PHIM** 1](#_Toc167104623)

[**1. Usecase Diagram** 1](#_Toc167104624)

[**2. Sequence Diagram** 2](#_Toc167104625)

[**3. API** 2](#_Toc167104626)

[**4. Giao diện App** 5](#_Toc167104627)

[**5. Giao diện App** 7](#_Toc167104628)

[ **SplashActivity:** 7](#_Toc167104629)

[ **MainActivity:** 7](#_Toc167104630)

[ **FilmActivity:** 11](#_Toc167104631)

[ **FilmDetailActivity:** 13](#_Toc167104632)

[ **ShowtimesActivity:** 14](#_Toc167104633)

[ **SeatsActivity:** 16](#_Toc167104634)

[ **LoginActivity:** 18](#_Toc167104635)

[ **SignUpActivity:** 21](#_Toc167104636)

[ **ProfileActivity:** 24](#_Toc167104637)

# **CHI TIẾT HƯỚNG DẪN XÂY DỰNG VÀ PHÁT TRIỂN TỪNG CHỨC NĂNG CỦA ỨNG DỤNG ĐẶT VÉ XEM PHIM**

## **1. Usecase Diagram**

## **2. Sequence Diagram**

## **3. API**

* **Users:**

[

{

"userId": 1,

"username": "anhthu",

"password": "123",

"userAvatar": "",

"userFullname": "Anh Thư",

"userGender": "N?",

"userEmail": "anhthu@gmail.com",

"userPhone": "0123456789"

},

{

"userId": 2,

"username": "phuongnguyen",

"password": "456",

"userAvatar": "",

"userFullname": "Đông Phương",

"userGender": "N?",

"userEmail": "phuongnguyen@gmail.com",

"userPhone": "9876543210"

},

{

"userId": 3,

"username": "huongquyen",

"password": "789",

"userAvatar": "",

"userFullname": "Hương Quyên",

"userGender": "N?",

"userEmail": "huongquyen@gmail.com",

"userPhone": "0147258369"

},

{

"userId": 5,

"username": "truongthu",

"password": "147",

"userAvatar": "",

"userFullname": "Trương Thư",

"userGender": "N?",

"userEmail": "truongthu@gmail.com",

"userPhone": "0963825741"

},

{

"userId": 9,

"username": "tnat8628",

"password": "123",

"userAvatar": "N?",

"userFullname": "Trương Nguyễn Anh Thư",

"userGender": "N?",

"userEmail": "truongthu8628@gmail.com",

"userPhone": "0853002471"

}

]

* **Category:**

[

{

"categoryId": 1,

"name": "Mystery"

},

{

"categoryId": 2,

"name": "Thriller"

},

{

"categoryId": 3,

"name": "Fantasy"

},

{

"categoryId": 4,

"name": "Adventure"

},

{

"categoryId": 5,

"name": "Comedy"

},

{

"categoryId": 6,

"name": "Romance"

},

{

"categoryId": 7,

"name": "Horror"

},

{

"categoryId": 8,

"name": "Animation"

}

]

* **Link API:**

**User:** [192.168.97.222:8188/api/users?fbclid=IwZXh0bgNhZW0CMTAAAR2wZEkzZVgfcu5tGCVXlyEqpgtZ9azloPNwIkp4YjesWG8mbjPBQ6GLBeM\_aem\_AfvoM2Qus7PvU5KLEJyrRn8Ilg9G0ee7U5XrzkU6fKzQl\_hg9cPdPEsnYGw-lKXYgUbfGWmOn6nMlUkIul83DLlR](http://192.168.97.222:8188/api/users?fbclid=IwZXh0bgNhZW0CMTAAAR2wZEkzZVgfcu5tGCVXlyEqpgtZ9azloPNwIkp4YjesWG8mbjPBQ6GLBeM_aem_AfvoM2Qus7PvU5KLEJyrRn8Ilg9G0ee7U5XrzkU6fKzQl_hg9cPdPEsnYGw-lKXYgUbfGWmOn6nMlUkIul83DLlR)

**Category:**

[192.168.97.222:8188/api/moviecategory?fbclid=IwZXh0bgNhZW0CMTAAAR0InFX6KQRUCKOgqqdGlAB5ehGXXjQ\_jJjiLDuQRb9y8OmuvprNgm-l7eQ\_aem\_AfuT0Nw1auSYN8dQdQBKAaTQseksTSpPFdeOkFfC\_sxQBq5nXAimkqOwdv7e1OUZHQMxW-EeAaHJcZmNPMUO3KW7](http://192.168.97.222:8188/api/moviecategory?fbclid=IwZXh0bgNhZW0CMTAAAR0InFX6KQRUCKOgqqdGlAB5ehGXXjQ_jJjiLDuQRb9y8OmuvprNgm-l7eQ_aem_AfuT0Nw1auSYN8dQdQBKAaTQseksTSpPFdeOkFfC_sxQBq5nXAimkqOwdv7e1OUZHQMxW-EeAaHJcZmNPMUO3KW7)

## **4. Giao diện App**

|  |  |  |
| --- | --- | --- |
| **SplashActivity** | **MainActivity** | **FilmActivity** |
|  |  |  |
| **ShowtimesActivity** | **FilmDetailActivity** | **SeatsActivity 1** |
|  |  |  |
| **SeatsActivity 2** | **SeatsActivity 3** | **GiftActivity** |
|  |  |  |
| **ProfileActivity** | **LoginActivity** | **SignUpActivity** |
|  |  |  |

## **5. Giao diện App**

* **SplashActivity:**
* package vn.superandroid.logo.Activities;  
    
  import android.content.Intent;  
  import android.os.Bundle;  
  import android.os.Handler;  
    
  import androidx.appcompat.app.AppCompatActivity;  
    
  import vn.superandroid.logo.R;  
  import vn.superandroid.logo.SharedPrefManager;  
    
  public class SplashActivity extends AppCompatActivity {  
    
   SharedPrefManager sharedPrefManager;  
    
   @Override  
   protected void onCreate(Bundle savedInstanceState) {  
   super.onCreate(savedInstanceState);  
   setContentView(R.layout.activity\_splash);  
   sharedPrefManager = new SharedPrefManager(getApplicationContext());  
   new Handler().postDelayed(new Runnable() {  
   @Override  
   public void run() {  
   if(!sharedPrefManager.isLogedOut()){  
   Intent intent = new Intent(SplashActivity.this, MainActivity.class);  
   startActivity(intent);  
   finish();  
   }  
   else {  
   Intent intent = new Intent(SplashActivity.this, LoginActivity.class);  
   startActivity(intent);  
   finish();  
   }  
   }  
   }, 2000);  
   }  
  }
* **MainActivity:**

package vn.superandroid.logo.Activities;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.os.Handler;  
import android.util.Log;  
import android.view.View;  
import android.widget.LinearLayout;  
import android.widget.Toast;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.recyclerview.widget.LinearLayoutManager;  
import androidx.recyclerview.widget.RecyclerView;  
import androidx.viewpager2.widget.ViewPager2;  
  
import java.util.ArrayList;  
import java.util.List;  
  
import me.relex.circleindicator.CircleIndicator3;  
import retrofit2.Call;  
import retrofit2.Callback;  
import retrofit2.Response;  
import vn.superandroid.logo.Adapter.CategoryAdapter;  
import vn.superandroid.logo.DepthPageTransformer;  
import vn.superandroid.logo.Adapter.ImagesViewPager2Adapter;  
import vn.superandroid.logo.Model.Category;  
import vn.superandroid.logo.Model.Images;  
import vn.superandroid.logo.Model.User;  
import vn.superandroid.logo.R;  
import vn.superandroid.logo.api.CategoryService;  
import vn.superandroid.logo.api.RetrofitClient;  
  
public class MainActivity extends AppCompatActivity {  
 private User mUser;  
 private ViewPager2 viewPager2;  
 private CircleIndicator3 circleIndicator3;  
 private List<Images> imagesList1;  
 private LinearLayout hoSoBtn, phimBtn, quaTangBtn, lichchieuBtn;  
 private Handler handler = new Handler();  
 CategoryService categoryService;  
 private List<Category> mListCategory;  
 private RecyclerView recyclerViewCategoryList;  
 private RecyclerView.Adapter adapter;  
 private Runnable runnable = new Runnable() {  
 @Override  
 public void run() {  
 if (viewPager2.getCurrentItem() == imagesList1.size() - 1) {  
 viewPager2.setCurrentItem(0);  
 } else {  
 viewPager2.setCurrentItem(viewPager2.getCurrentItem() + 1);  
 }  
 }  
 };  
 private View imgView\_Phim;  
  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.activity\_main);  
  
 mListCategory = new ArrayList<>();  
 // anh xa viewpager2  
 viewPager2 = findViewById(R.id.viewpage2);  
 circleIndicator3 = findViewById(R.id.circle\_indicator3);  
 imagesList1 = getListImages();  
 ImagesViewPager2Adapter adapter1 = new ImagesViewPager2Adapter(imagesList1);  
 viewPager2.setAdapter(adapter1);  
 //Liên kết viewpager2 và indicator3  
 circleIndicator3.setViewPager(viewPager2);  
 //lắng nghe viewpager chuyển trang  
 viewPager2.registerOnPageChangeCallback(new ViewPager2.OnPageChangeCallback() {  
 @Override  
 public void onPageSelected(int position) {  
 super.onPageSelected(position);  
 handler.removeCallbacks(runnable);  
 handler.postDelayed(runnable,3000);  
 }  
 });  
 //viewpager2 transformers  
 //viewPager2.setPageTransformer(new ZoomOutPageTransformer());  
 viewPager2.setPageTransformer(new DepthPageTransformer());  
  
 //ánh xạ  
 hoSoBtn = findViewById(R.id.hoSoBtn);  
 hoSoBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(MainActivity.this, ProfileActivity.class);  
 startActivity(intent);  
 }  
 });  
 imgView\_Phim = findViewById(R.id.imgView\_Phim);  
 imgView\_Phim.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(MainActivity.this, FilmActivity.class);  
 startActivity(intent);  
 }  
 });  
  
 phimBtn = findViewById(R.id.phimBtn);  
 phimBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(MainActivity.this, FilmActivity.class);  
 startActivity(intent);  
 }  
 });  
  
 quaTangBtn = findViewById(R.id.quaTangBtn);  
 quaTangBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(MainActivity.this, GiftActivity.class);  
 startActivity(intent);  
 }  
 });  
 lichchieuBtn = findViewById(R.id.lichChieuBtn);  
 lichchieuBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(MainActivity.this, ShowtimesActivity.class);  
 startActivity(intent);  
 }  
 });  
 getListCategory(new CategoryCallback() {  
 @Override  
 public void onCategoryReceived(List<Category> mListCategory) {  
 if(mListCategory != null) {  
 recyclerViewCategory();  
 }  
 else {  
 Toast.makeText(MainActivity.this, "Category rỗng", Toast.LENGTH\_SHORT).show();  
 }  
 }  
 });  
  
 }  
  
  
 private List<Images> getListImages() {  
 List<Images> list = new ArrayList<>();  
 list.add(new Images(R.drawable.banner1));  
 list.add(new Images(R.drawable.banner2));  
 list.add(new Images(R.drawable.banner3));  
 list.add(new Images(R.drawable.banner4));  
 list.add(new Images(R.drawable.banner5));  
 list.add(new Images(R.drawable.banner6));  
 list.add(new Images(R.drawable.banner7));  
 list.add(new Images(R.drawable.banner8));  
 return list;  
 }  
 public interface CategoryCallback {  
 void onCategoryReceived(List<Category> mListCategory);  
 }  
 private void getListCategory(CategoryCallback callback) {  
 //Gọi Interface trong CategoryService  
 categoryService = RetrofitClient.*getRetrofit*().create(CategoryService.class);  
 categoryService.getListCategory().enqueue(new Callback<List<Category>>() {  
 @Override  
 public void onResponse(Call<List<Category>> call, Response<List<Category>> response) {  
 if (response.isSuccessful()) {  
 mListCategory = response.body(); //nhận mảng Category  
 callback.onCategoryReceived(mListCategory);  
 } else {  
 int statusCode = response.code();  
 callback.onCategoryReceived(null); // Gọi lại với giá trị null nếu không thành công  
 }  
 }  
 @Override  
 public void onFailure(Call<List<Category>> call, Throwable t) {  
 Log.*d*("logg", t.getMessage());  
 }  
 });  
 }  
 private void recyclerViewCategory() {  
 LinearLayoutManager linearLayoutManager = new LinearLayoutManager(this, LinearLayoutManager.HORIZONTAL, false);  
 recyclerViewCategoryList = findViewById(R.id.rc\_Category);  
 recyclerViewCategoryList.setLayoutManager(linearLayoutManager);  
  
 /\*ArrayList<CategoryModel> categoryList = new ArrayList<>();  
 categoryList.add(new CategoryModel("1", "Mystery"));  
 categoryList.add(new CategoryModel("2", "Thriller"));  
 categoryList.add(new CategoryModel("3", "Fantasy"));  
 categoryList.add(new CategoryModel("4", "Adventure"));  
 categoryList.add(new CategoryModel("5", "Comedy"));  
 categoryList.add(new CategoryModel("6", "Romance"));  
 categoryList.add(new CategoryModel("7", "Horror"));  
 categoryList.add(new CategoryModel("8", "Animation"));\*/  
 adapter = new CategoryAdapter(mListCategory);  
 recyclerViewCategoryList.setAdapter(adapter);  
 }  
}

* **FilmActivity:**
* package vn.superandroid.logo.Activities;  
    
  import static vn.superandroid.logo.R.id.*toolbar*;  
    
  import androidx.appcompat.app.AppCompatActivity;  
    
  import android.content.Intent;  
  import android.os.Bundle;  
  import android.view.View;  
  import android.widget.ImageButton;  
  import android.widget.ImageView;  
  import androidx.appcompat.widget.Toolbar;  
  //import android.widget.Toolbar;  
    
  import vn.superandroid.logo.R;  
    
  public class FilmActivity extends AppCompatActivity {  
    
   protected void onCreate(Bundle savedInstanceState) {  
   super.onCreate(savedInstanceState);  
   setContentView(R.layout.*activity\_film*);  
    
   // Set up the custom toolbar  
   Toolbar toolbar = findViewById(R.id.*toolbar*);  
   setSupportActionBar(toolbar);  
   getSupportActionBar().setDisplayShowTitleEnabled(false);  
    
   ImageButton backButton = findViewById(R.id.*backButton*);  
   backButton.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   // Navigate back to MainActivity  
   Intent intent = new Intent(FilmActivity.this, MainActivity.class);  
   intent.setFlags(Intent.*FLAG\_ACTIVITY\_CLEAR\_TOP* | Intent.*FLAG\_ACTIVITY\_NEW\_TASK*);  
   startActivity(intent);  
   finish(); // Finish FilmActivity to remove it from the back stack  
   }  
   });  
    
   ImageView[] posters = {  
   findViewById(R.id.*poster1*), findViewById(R.id.*poster2*), findViewById(R.id.*poster3*),  
   findViewById(R.id.*poster4*), findViewById(R.id.*poster5*), findViewById(R.id.*poster6*),  
   findViewById(R.id.*poster7*), findViewById(R.id.*poster8*), findViewById(R.id.*poster9*)  
   };  
    
   String[] filmIds = {"f1", "f5", "f3", "f8", "f6", "f2", "f4", "f7", "f7"};  
   String[] videoUrls = {  
   "https://firebasestorage.googleapis.com/v0/b/film-f8b47.appspot.com/o/y2mate.com%20-%20EXHUMA%20QU%E1%BA%ACT%20M%E1%BB%98%20TR%C3%99NG%20MA%20%20KC%2015032024\_1080p.mp4?alt=media&token=f975106d-4677-4918-aa72-37b167dd311c",  
   "https://firebasestorage.googleapis.com/v0/b/film-f8b47.appspot.com/o/y2mate.com%20-%20Godzilla%20X%20Kong%20The%20New%20Empire%20%20In%20Cinemas%20on%20March%2029\_1080p.mp4?alt=media&token=daf48438-1ce8-4c2e-bd57-9ebaabcebee3",  
   "https://firebasestorage.googleapis.com/v0/b/film-f8b47.appspot.com/o/y2mate.com%20-%20The%20First%20Omen%20%20Official%20Trailer%20%2020th%20Century%20Studios\_1080p.mp4?alt=media&token=1f39b43e-9d9a-4525-86be-dc880272cba4",  
   "https://firebasestorage.googleapis.com/v0/b/film-f8b47.appspot.com/o/y2mate.com%20-%20Minions%20The%20Rise%20of%20Gru%20%20Official%20Trailer%203%20HD\_1080p.mp4?alt=media&token=d338c01c-b591-454d-9459-aca612aef923",  
   "https://firebasestorage.googleapis.com/v0/b/film-f8b47.appspot.com/o/y2mate.com%20-%20MAI%20%20First%20Look%20Trailer%20%20PHIM%20T%E1%BA%BET%202024%20C%E1%BB%A6A%20TR%E1%BA%A4N%20TH%C3%80NH\_1080p.mp4?alt=media&token=32742322-748e-45a1-bf2b-cdf8fa19dad6",  
   "https://firebasestorage.googleapis.com/v0/b/film-f8b47.appspot.com/o/y2mate.com%20-%20Mission%20Impossible%20%20Dead%20Reckoning%20Part%20One%20%20Final%20Trailer%202023%20Movie%20%20Tom%20Cruise\_1080p.mp4?alt=media&token=9cec7491-8a1d-44d1-9cab-3620c3f09df7",  
   "https://firebasestorage.googleapis.com/v0/b/film-f8b47.appspot.com/o/y2mate.com%20-%20L%E1%BA%ACT%20M%E1%BA%B6T%207%20M%E1%BB%98T%20%C4%90I%E1%BB%80U%20%C6%AF%E1%BB%9AC%20%20TEASER%20TRAILER%20%20Kh%E1%BB%9Fi%20Chi%E1%BA%BFu%2026042024\_1080p.mp4?alt=media&token=32f5ab48-ac5a-4b0c-8f70-c8fd9144974f",  
   "https://firebasestorage.googleapis.com/v0/b/film-f8b47.appspot.com/o/One%20Piece%20Film%20Red%20-%20Official%20Trailer%20(2022)%20English%20Subtitles.mp4?alt=media&token=d2c0950a-5dd9-422b-b78b-f5d89eb7f3d2",  
   "https://firebasestorage.googleapis.com/v0/b/film-f8b47.appspot.com/o/One%20Piece%20Film%20Red%20-%20Official%20Trailer%20(2022)%20English%20Subtitles.mp4?alt=media&token=d2c0950a-5dd9-422b-b78b-f5d89eb7f3d2"  
   };  
    
   for (int i = 0; i < posters.length; i++) {  
   final String filmId = filmIds[i];  
   final String videoUrl = videoUrls[i];  
    
   posters[i].setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   Intent intent = new Intent(FilmActivity.this, FilmDetailActivity.class);  
   intent.putExtra("FILM\_ID", filmId);  
   intent.putExtra("VIDEO\_URL", videoUrl);  
   startActivity(intent);  
   }  
   });  
   }  
   }  
    
    
  }
* **FilmDetailActivity:**
* package vn.superandroid.logo.Activities;  
    
  import android.graphics.PixelFormat;  
  import android.net.Uri;  
  import android.util.Log;  
  import androidx.annotation.NonNull;  
  import androidx.appcompat.app.AppCompatActivity;  
    
  import android.os.Bundle;  
  import android.view.View;  
  import android.widget.Button;  
  import android.widget.FrameLayout;  
  import android.widget.ImageButton;  
  import android.widget.MediaController;  
  import android.widget.TextView;  
  import android.widget.VideoView;  
    
  import com.google.firebase.FirebaseApp;  
  import com.google.firebase.database.DataSnapshot;  
  import com.google.firebase.database.DatabaseError;  
  import com.google.firebase.database.DatabaseReference;  
  import com.google.firebase.database.FirebaseDatabase;  
  import com.google.firebase.database.ValueEventListener;  
    
  import vn.superandroid.logo.R;  
    
  public class FilmDetailActivity extends AppCompatActivity {  
    
   private VideoView videoContainer;  
   private Button playBtn,stopBtn;  
   private TextView tvFilmName, tvGenre, tvYear, tvDuration, tvCountry, tvRating;  
    
   @Override  
   protected void onCreate(Bundle savedInstanceState) {  
   super.onCreate(savedInstanceState);  
   setContentView(R.layout.activity\_film\_detail);  
   FirebaseApp.initializeApp(this);  
    
   // Initialize views  
   videoContainer = findViewById(R.id.videoContainer);  
   playBtn = (Button) findViewById(R.id.playBtn);  
   stopBtn = (Button) findViewById(R.id.stopBtn);  
   tvFilmName = findViewById(R.id.tvTitle);  
   tvGenre = findViewById(R.id.tvGenres);  
   tvYear = findViewById(R.id.tvYear);  
   tvDuration = findViewById(R.id.tvTime);  
   tvCountry = findViewById(R.id.tvCountry);  
   tvRating = findViewById(R.id.tvRating);  
    
   // Setup toolbar  
   ImageButton backButton = findViewById(R.id.backButton);  
   backButton.setOnClickListener(v -> onBackPressed());  
    
   String filmId = getIntent().getStringExtra("FILM\_ID");  
   String videoUrl = getIntent().getStringExtra("VIDEO\_URL");  
    
   // Fetch data from Firebase  
   fetchDataFromFirebase(filmId, videoUrl);  
   }  
    
   private void fetchDataFromFirebase(String filmId, String videoUrl) {  
   FirebaseDatabase database = FirebaseDatabase.getInstance();  
   DatabaseReference filmRef = database.getReference("trailers").child(filmId);  
    
   filmRef.addValueEventListener(new ValueEventListener() {  
   @Override  
   public void onDataChange(@NonNull DataSnapshot snapshot) {  
   if (snapshot.exists()) {  
   String title = snapshot.child("title").getValue(String.class);  
   String genres = snapshot.child("genres").getValue(String.class);  
   String year = snapshot.child("year").getValue(String.class);  
   String time = snapshot.child("time").getValue(String.class);  
   String country = snapshot.child("country").getValue(String.class);  
   String rating = snapshot.child("rating").getValue(String.class);  
   Log.d("Year", year);  
   // Update the views  
   tvFilmName.setText(title);  
   tvGenre.setText(genres);  
   tvYear.setText(year);  
   tvDuration.setText(time);  
   tvCountry.setText(country);  
   tvRating.setText(rating);  
    
   Uri videoUri = Uri.parse(videoUrl);  
    
   // Set video URI and start playing  
   videoContainer.setVideoURI(videoUri);  
   videoContainer.requestFocus();  
    
   playBtn.setOnClickListener(v -> videoContainer.start());  
   stopBtn.setOnClickListener(v -> videoContainer.pause());  
   }  
   }  
    
   @Override  
   public void onCancelled(@NonNull DatabaseError error) {  
   // Handle possible errors  
   }  
   });  
   }  
  }
* **ShowtimesActivity:**

package vn.superandroid.logo.Activities;  
  
import android.content.Intent;  
import android.os.Bundle;  
import android.view.View;  
import android.widget.Button;  
import android.widget.ImageButton;  
  
import androidx.appcompat.app.AppCompatActivity;  
import androidx.appcompat.widget.Toolbar;  
  
import vn.superandroid.logo.R;  
  
public class ShowtimesActivity extends AppCompatActivity {  
  
 Button gioBtn1, gioBtn2, gioBtn3;  
 ImageButton backBtn;  
 @Override  
 protected void onCreate(Bundle savedInstanceState) {  
 super.onCreate(savedInstanceState);  
 setContentView(R.layout.*activity\_showtimes*);  
  
 // Set up the custom toolbar  
 Toolbar toolbar = findViewById(R.id.*toolbar*);  
 setSupportActionBar(toolbar);  
 getSupportActionBar().setDisplayShowTitleEnabled(false);  
  
  
 //ánh xạ  
 gioBtn1 = findViewById(R.id.*btn920*);  
 gioBtn2 = findViewById(R.id.*btn9202*);  
 gioBtn3 = findViewById(R.id.*btn9203*);  
 backBtn = findViewById(R.id.*backButton*);  
 gioBtn1.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(ShowtimesActivity.this, SeatsActivity.class); // Thay thế ShowtimesActivity bằng SeatsActivity  
 startActivity(intent);  
 }  
 });  
  
 gioBtn2.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(ShowtimesActivity.this, SeatsActivity.class); // Thay thế ShowtimesActivity bằng SeatsActivity  
 startActivity(intent);  
 }  
 });  
  
 gioBtn3.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 Intent intent = new Intent(ShowtimesActivity.this, SeatsActivity.class); // Thay thế ShowtimesActivity bằng SeatsActivity  
 startActivity(intent);  
 }  
 });  
  
 backBtn.setOnClickListener(new View.OnClickListener() {  
 @Override  
 public void onClick(View v) {  
 finish();  
 }  
 });  
 }  
}

* **SeatsActivity:**
* package vn.superandroid.logo.Activities;  
    
  import android.content.Intent;  
  import android.os.Bundle;  
  import android.util.Log;  
  import android.view.View;  
  import android.widget.Button;  
  import android.widget.ImageButton;  
  import android.widget.SeekBar;  
  import android.widget.TextView;  
  import android.widget.Toast;  
    
  import androidx.appcompat.app.AppCompatActivity;  
  import androidx.appcompat.widget.Toolbar;  
  import androidx.recyclerview.widget.GridLayoutManager;  
  import androidx.recyclerview.widget.LinearLayoutManager;  
  import androidx.recyclerview.widget.RecyclerView;  
    
  import com.otaliastudios.zoom.ZoomLayout;  
    
  import java.util.ArrayList;  
  import java.util.List;  
    
  import vn.superandroid.logo.Adapter.MoviesSeatAdapter;  
  import vn.superandroid.logo.R;  
    
  public class SeatsActivity extends AppCompatActivity {  
   private RecyclerView recyclerView;  
   private MoviesSeatAdapter adapter;  
   private List<String> seatList;  
   private TextView tickets, price;  
   Button buyBtn;  
   ImageButton backBtn;  
    
   @Override  
   protected void onCreate(Bundle savedInstanceState) {  
   super.onCreate(savedInstanceState);  
   setContentView(R.layout.*activity\_seats*);  
    
   // Set up the custom toolbar  
   Toolbar toolbar = findViewById(R.id.*toolbar*);  
   setSupportActionBar(toolbar);  
   getSupportActionBar().setDisplayShowTitleEnabled(false);  
    
   //ánh xạ  
   buyBtn = findViewById(R.id.*btnBuyButtonMoviesSeat*);  
   backBtn = findViewById(R.id.*backButton*);  
   recyclerView = findViewById(R.id.*rvSeatsMoviesSeat*);  
   tickets = findViewById(R.id.*tvNumberOfTicketsMoviesSeat*);  
   price = findViewById(R.id.*tvTicketPriceMoviesSeat*);  
    
   // Grid Layout là để hiển thị theo dạng cột, 1 hàng sẽ có 8 cột  
   GridLayoutManager gridLayoutManager = new GridLayoutManager(this, 8);  
   recyclerView.setLayoutManager(gridLayoutManager);  
    
   // Giả lập danh sách các ghế  
   seatList = new ArrayList<>();  
   seatList.add("A1");  
   seatList.add("A2");  
   seatList.add("A3");  
   seatList.add("A4");  
   seatList.add("A5");  
   seatList.add("A6");  
   seatList.add("A7");  
   seatList.add("A8");  
   seatList.add("B1");  
   seatList.add("B2");  
   seatList.add("B3");  
   seatList.add("B4");  
   seatList.add("B5");  
   seatList.add("B6");  
   seatList.add("B7");  
   seatList.add("B8");  
    
   adapter = new MoviesSeatAdapter(seatList);  
   recyclerView.setAdapter(adapter);  
    
   //nút Buy Ticket  
   buyBtn.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   Toast.*makeText*(SeatsActivity.this, "Bạn đã đặt vé thành công", Toast.*LENGTH\_SHORT*).show();  
   }  
   });  
    
   //nút Back  
   backBtn.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   finish();  
   }  
   });  
    
   //Seekbar  
   SeekBar seekBar = (SeekBar) findViewById(R.id.*seekbarSeat*);  
   seekBar.setOnSeekBarChangeListener(new SeekBar.OnSeekBarChangeListener() {  
   @Override  
   public void onProgressChanged(SeekBar seekBar, int progress, boolean fromUser) {  
   //progress: giá trị của seekbar  
   ZoomLayout zoomLayoutSeat = findViewById(R.id.*zoomLayoutSeat*);  
   float zoomLevel = (progress / 100f) \* (zoomLayoutSeat.getMaxZoom() - zoomLayoutSeat.getMinZoom()) + zoomLayoutSeat.getMinZoom();  
   zoomLayoutSeat.zoomTo(zoomLevel, false);  
   }  
    
   @Override  
   public void onStartTrackingTouch(SeekBar seekBar) {  
   // Log.d("AAA","Start");  
   }  
    
   @Override  
   public void onStopTrackingTouch(SeekBar seekBar) {  
   // Log.d("AAA","Stop");  
   }  
   });  
   tickets.setText(String.*valueOf*(adapter.selected));  
   price.setText(String.*valueOf*(adapter.selected \* 55000));  
   tickets.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   tickets.setText(String.*valueOf*(adapter.selected));  
   price.setText(String.*valueOf*(adapter.selected \* 55000));  
   }  
   });  
    
    
   }  
  }
* **LoginActivity:**
* package vn.superandroid.logo.Activities;  
    
  import android.content.Intent;  
  import android.os.Bundle;  
  import android.util.Log;  
  import android.view.View;  
  import android.widget.Button;  
  import android.widget.EditText;  
  import android.widget.LinearLayout;  
  import android.widget.Toast;  
    
  import androidx.appcompat.app.AppCompatActivity;  
    
  import java.util.ArrayList;  
  import java.util.List;  
    
  import retrofit2.Call;  
  import retrofit2.Callback;  
  import retrofit2.Response;  
  import vn.superandroid.logo.Model.User;  
  import vn.superandroid.logo.R;  
  import vn.superandroid.logo.SharedPrefManager;  
  import vn.superandroid.logo.api.RetrofitClient;  
  import vn.superandroid.logo.api.UserService;  
    
  public class LoginActivity extends AppCompatActivity {  
   private LinearLayout layoutSignUp;  
   private Button continueBtn;  
   private EditText edtUsername, edtPassword;  
   private List<User> mListUsers;  
   UserService userService;  
   private User mUser;  
   @Override  
   protected void onCreate(Bundle savedInstanceState) {  
   super.onCreate(savedInstanceState);  
   setContentView(R.layout.*activity\_login*);  
    
   mListUsers = new ArrayList<>();  
   initUI();  
   initListener();  
  // getListUsers();  
   }  
   private void getListUsers() {  
   //Gọi Interface trong UserService  
   userService = RetrofitClient.*getRetrofit*().create(UserService.class);  
   userService.getListUsers().enqueue(new Callback<List<User>>() {  
   @Override  
   public void onResponse(Call<List<User>> call, Response<List<User>> response) {  
   if (response.isSuccessful()) {  
   mListUsers = response.body(); //nhận mảng Users  
   Log.*d*("ab", response.message());  
   } else {  
   int statusCode = response.code();  
   Log.*d*("status", String.*valueOf*(statusCode));  
   }  
   }  
   @Override  
   public void onFailure(Call<List<User>> call, Throwable t) {  
   Log.*d*("logg", t.getMessage());  
   }  
   });  
   }  
    
   public interface UserCallback {  
   void onUserReceived(User user);  
   }  
    
   private void getUser(String username, UserCallback callback) {  
   userService = RetrofitClient.*getRetrofit*().create(UserService.class);  
   userService.getUserByUsername(username).enqueue(new Callback<User>() {  
   @Override  
   public void onResponse(Call<User> call, Response<User> response) {  
   if (response.isSuccessful()) {  
   mUser = response.body(); // nhận thông tin User  
   callback.onUserReceived(mUser); // Gọi lại khi nhận được User  
   } else {  
   int statusCode = response.code();  
   callback.onUserReceived(null); // Gọi lại với giá trị null nếu không thành công  
   }  
   }  
    
   @Override  
   public void onFailure(Call<User> call, Throwable t) {  
   Log.*d*("logg", t.getMessage());  
   callback.onUserReceived(null); // Gọi lại với giá trị null nếu xảy ra lỗi  
   }  
   });  
   }  
    
   //Ánh xạ  
   private void initUI() {  
   layoutSignUp = findViewById(R.id.*layout\_sign\_up*);  
   continueBtn = findViewById(R.id.*continueButton*);  
   edtUsername = findViewById(R.id.*editTextUsername*);  
   edtPassword = findViewById(R.id.*editTextPassword*);  
   }  
    
   private void initListener() {  
   // Nhấn SignUp  
   layoutSignUp.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   Intent intent = new Intent(LoginActivity.this, SignUpActivity.class);  
   startActivity(intent);  
   }  
   });  
   // Nhấn Login  
   continueBtn.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   String strUsername = edtUsername.getText().toString().trim();  
   String strPassword = edtPassword.getText().toString().trim();  
   // User chưa nhập Username  
   if (strUsername.isEmpty()) {  
   Toast.*makeText*(LoginActivity.this, "Vui lòng nhập Username", Toast.*LENGTH\_SHORT*).show();  
   }  
   // User chưa nhập Password  
   else if (strPassword.isEmpty()) {  
   Toast.*makeText*(LoginActivity.this, "Vui lòng nhập Password", Toast.*LENGTH\_SHORT*).show();  
   }  
   // everything is fine  
   else {  
   getUser(strUsername, new UserCallback() {  
   @Override  
   public void onUserReceived(User user) {  
   if (user != null) {  
   boolean isHasUser = user.getUsername().equals(strUsername) && user.getPassword().equals(strPassword);  
   if (isHasUser) {  
   SharedPrefManager sharedPrefManager = new SharedPrefManager(LoginActivity.this);  
   sharedPrefManager.setData(user);  
   // Chuyển vào MainActivity  
   Intent intent = new Intent(LoginActivity.this, MainActivity.class);  
   finish();  
   startActivity(intent);  
   } else {  
   Toast.makeText(LoginActivity.this, "Sai tài khoản hoặc mật khẩu", Toast.LENGTH\_SHORT).show();  
   }  
   } else {  
   Toast.makeText(LoginActivity.this, "Sai tài khoản hoặc mật khẩu", Toast.LENGTH\_SHORT).show();  
   }  
   }  
   });  
   }  
   }  
   });  
   }  
  }
* **SignUpActivity:**
* package vn.superandroid.logo.Activities;  
    
  import androidx.appcompat.app.AppCompatActivity;  
    
  import android.content.Intent;  
  import android.os.Bundle;  
  import android.util.Log;  
  import android.view.View;  
  import android.widget.Button;  
  import android.widget.EditText;  
  import android.widget.Toast;  
    
  import retrofit2.Call;  
  import retrofit2.Callback;  
  import retrofit2.Response;  
  import vn.superandroid.logo.Model.User;  
  import vn.superandroid.logo.R;  
  import vn.superandroid.logo.SharedPrefManager;  
  import vn.superandroid.logo.api.RetrofitClient;  
  import vn.superandroid.logo.api.UserService;  
    
  public class SignUpActivity extends AppCompatActivity {  
    
   EditText edtUsername, edtPassword, edtName, edtEmail, edtPhone, edtGender;  
   Button btnSignUp;  
   UserService userService;  
   private User mUser, nUser;  
   @Override  
   protected void onCreate(Bundle savedInstanceState) {  
   super.onCreate(savedInstanceState);  
   setContentView(R.layout.*activity\_sign\_up*);  
    
   initUI();  
   initListener();  
   }  
   private void initUI() {  
   edtUsername = findViewById(R.id.*edtUsername*);  
   edtPassword = findViewById(R.id.*edtPassword*);  
   edtName = findViewById(R.id.*edtName*);  
   edtGender = findViewById(R.id.*edtGender*);  
   edtEmail = findViewById(R.id.*edtEmail*);  
   edtPhone = findViewById(R.id.*edtPhone*);  
   btnSignUp = findViewById(R.id.*btnSignUp*);  
   }  
   private void creatUser() {  
   String strUsername = edtUsername.getText().toString().trim(),  
   strPassword = edtPassword.getText().toString().trim(),  
   strName = edtName.getText().toString().trim(),  
   strGender = edtGender.getText().toString().trim(),  
   strEmail = edtEmail.getText().toString().trim(),  
   strPhone = edtPhone.getText().toString().trim();  
   if(strUsername.isEmpty()) {  
   Toast.*makeText*(SignUpActivity.this, "Vui lòng nhập Username!", Toast.*LENGTH\_SHORT*).show();  
   } else if(strPassword.isEmpty()) {  
   Toast.*makeText*(SignUpActivity.this, "Vui lòng nhập Password!", Toast.*LENGTH\_SHORT*).show();  
   } else if(strName.isEmpty()) {  
   Toast.*makeText*(SignUpActivity.this, "Vui lòng nhập Họ và tên", Toast.*LENGTH\_SHORT*).show();  
   } else if(strGender.isEmpty()) {  
   Toast.*makeText*(SignUpActivity.this, "Vui lòng nhập Giới tính!", Toast.*LENGTH\_SHORT*).show();  
   } else if(strEmail.isEmpty()) {  
   Toast.*makeText*(SignUpActivity.this, "Vui lòng nhập Email!", Toast.*LENGTH\_SHORT*).show();  
   } else if(strPhone.isEmpty()) {  
   Toast.*makeText*(SignUpActivity.this, "Vui lòng nhập Số điện thoại!", Toast.*LENGTH\_SHORT*).show();  
   }  
   nUser = new User(strUsername,strPassword, strName, strGender, strEmail, strPhone);  
   }  
   private void initListener() {  
   btnSignUp.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   creatUser();  
   if(nUser != null) {  
   getUser(nUser, new UserCallback() {  
   @Override  
   public void onUserReceived(User user) {  
   if (user != null) {  
   Toast.*makeText*(SignUpActivity.this, "Đăng ký thành công", Toast.*LENGTH\_SHORT*).show();  
   SharedPrefManager sharedPrefManager = new SharedPrefManager(SignUpActivity.this);  
   sharedPrefManager.setData(user);  
   // Chuyển vào MainActivity  
   Intent intent = new Intent(SignUpActivity.this, MainActivity.class);  
   finish();  
   startActivity(intent);  
   } else {  
   Toast.*makeText*(SignUpActivity.this, "Sai tài khoản hoặc mật khẩu", Toast.*LENGTH\_SHORT*).show();  
   }  
   }  
   });  
   Toast.*makeText*(SignUpActivity.this, "Lấy User thành công", Toast.*LENGTH\_SHORT*).show();  
    
   }  
    
   }  
   });  
   }  
   public interface UserCallback {  
   void onUserReceived(User user);  
   }  
   private void getUser(User newUser, UserCallback callback) {  
   userService = RetrofitClient.*getRetrofit*().create(UserService.class);  
   userService.registerUser(newUser).enqueue(new Callback<User>() {  
   @Override  
   public void onResponse(Call<User> call, Response<User> response) {  
   if (response.isSuccessful()) {  
   mUser = response.body(); // nhận thông tin User  
   callback.onUserReceived(mUser); // Gọi lại khi nhận được User  
   } else {  
   int statusCode = response.code();  
   callback.onUserReceived(null); // Gọi lại với giá trị null nếu không thành công  
   }  
   }  
    
   @Override  
   public void onFailure(Call<User> call, Throwable t) {  
   Log.*d*("logg", t.getMessage());  
   callback.onUserReceived(null); // Gọi lại với giá trị null nếu xảy ra lỗi  
   }  
   });  
   }  
    
  }
* **GiftActivity:**
* package vn.superandroid.logo.Activities;  
    
  import androidx.appcompat.app.AppCompatActivity;  
  import androidx.appcompat.widget.Toolbar;  
    
  import android.content.Intent;  
  import android.os.Bundle;  
  import android.view.View;  
  import android.widget.ImageButton;  
  import android.widget.ImageView;  
    
  import vn.superandroid.logo.R;  
    
  public class GiftActivity extends AppCompatActivity {  
    
   @Override  
   protected void onCreate(Bundle savedInstanceState) {  
   super.onCreate(savedInstanceState);  
   setContentView(R.layout.*activity\_gift*);  
    
   // Set up the custom toolbar  
   Toolbar toolbar = findViewById(R.id.*toolbar*);  
   setSupportActionBar(toolbar);  
   getSupportActionBar().setDisplayShowTitleEnabled(false);  
    
   ImageButton backButton = findViewById(R.id.*backButton*);  
   backButton.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   // Navigate back to MainActivity  
   Intent intent = new Intent(GiftActivity.this, MainActivity.class);  
   intent.setFlags(Intent.*FLAG\_ACTIVITY\_CLEAR\_TOP* | Intent.*FLAG\_ACTIVITY\_NEW\_TASK*);  
   startActivity(intent);  
   finish(); // Finish GiftActivity to remove it from the back stack  
   }  
   });  
    
   ImageView[] gifts = {  
   findViewById(R.id.*gift1*), findViewById(R.id.*gift2*), findViewById(R.id.*gift3*), findViewById(R.id.*gift4*)  
   };  
    
    
   }  
  }
* **ProfileActivity:**
* package vn.superandroid.logo.Activities;  
    
  import android.Manifest;  
  import android.app.Activity;  
  import android.app.Dialog;  
  import android.content.Intent;  
  import android.content.pm.PackageManager;  
  import android.graphics.Bitmap;  
  import android.graphics.Color;  
  import android.graphics.drawable.ColorDrawable;  
  import android.net.Uri;  
  import android.os.Bundle;  
  import android.provider.MediaStore;  
  import android.util.Log;  
  import android.view.Gravity;  
  import android.view.LayoutInflater;  
  import android.view.View;  
  import android.view.ViewGroup;  
  import android.view.Window;  
  import android.widget.Button;  
  import android.widget.ImageView;  
  import android.widget.TextView;  
  import android.widget.Toast;  
    
  import androidx.activity.result.ActivityResult;  
  import androidx.activity.result.ActivityResultCallback;  
  import androidx.activity.result.ActivityResultLauncher;  
  import androidx.activity.result.contract.ActivityResultContracts;  
  import androidx.annotation.NonNull;  
  import androidx.appcompat.app.AppCompatActivity;  
    
  import java.io.IOException;  
    
  import vn.superandroid.logo.BottomSheetDialog;  
  import vn.superandroid.logo.Model.User;  
  import vn.superandroid.logo.R;  
  import vn.superandroid.logo.SharedPrefManager;  
    
  public class ProfileActivity extends AppCompatActivity {  
   public static final String *TAG* = ProfileActivity.class.getName();  
   private static final int *MY\_REQUEST\_CODE* = 10;  
   Button btnLogout;  
   TextView tvFullname, tvGender, tvEmail, tvPhone;  
   ImageView imgAvatar, btnBack;  
   User user;  
   SharedPrefManager sharedPrefManager;  
   private final ActivityResultLauncher<Intent> mActivityResultLauncher = registerForActivityResult(  
   new ActivityResultContracts.StartActivityForResult(),  
   new ActivityResultCallback<ActivityResult>() {  
   @Override  
   public void onActivityResult(ActivityResult result) {  
   Log.*e*(*TAG*, "onActivityResult");  
   if (result.getResultCode() == Activity.*RESULT\_OK*) {  
   //There are no request codes  
   Intent data = result.getData();  
   if (data == null) {  
   return;  
   }  
   Uri uri = data.getData();  
   //mUri = uri;  
   try {  
   Bitmap bitmap = MediaStore.Images.Media.*getBitmap*(getContentResolver(), uri);  
   imgAvatar.setImageBitmap(bitmap);  
   } catch (IOException e) {  
   e.printStackTrace();  
   }  
   }  
   }  
   });  
   @Override  
   protected void onCreate(Bundle savedInstanceState) {  
   super.onCreate(savedInstanceState);  
   setContentView(R.layout.*activity\_profile*);  
    
   initUI();  
   showUserInfo();  
   initListener();  
   }  
   private void initUI() {  
   tvFullname = findViewById(R.id.*tvFullname*);  
   tvGender = findViewById(R.id.*tvGender*);  
   tvEmail = findViewById(R.id.*tvEmail*);  
   tvPhone =findViewById(R.id.*tvPhone*);  
   btnLogout = findViewById(R.id.*logoutBtn*);  
   imgAvatar = findViewById(R.id.*imageView*);  
   btnBack = findViewById(R.id.*backButton*);  
   }  
    
   private void initListener() {  
   btnLogout.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   sharedPrefManager = new SharedPrefManager(getApplicationContext());  
   sharedPrefManager.clearUser();  
   Intent intent = new Intent(ProfileActivity.this, LoginActivity.class);  
   startActivity(intent);  
   finish();  
   }  
   });  
    
   imgAvatar.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   showDialog();  
   }  
   });  
    
    
   btnBack.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   finish();  
   }  
   });  
    
   }  
    
   private void showUserInfo() {  
   sharedPrefManager = new SharedPrefManager(getApplicationContext());  
   user = sharedPrefManager.getData();  
   tvFullname.setText(user.getUserFullname());  
   if(user.getUserGender().trim().equals("1"))  
   {  
   tvGender.setText("Nữ");  
   } else tvGender.setText("Nam");  
   tvEmail.setText(user.getUserEmail());  
   tvPhone.setText(user.getUserPhone());  
   }  
   private void showDialog(){  
   final Dialog dialog = new Dialog(this);  
   dialog.requestWindowFeature(Window.FEATURE\_NO\_TITLE);  
   dialog.setContentView(R.layout.layout\_bottom\_sheet);  
    
   Button chooseImgBtn = dialog.findViewById(R.id.choose\_img\_button);  
   Button uploadImgBtn = dialog.findViewById(R.id.upload\_img\_button);  
    
   chooseImgBtn.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   onClickRequestPermission();  
   }  
   });  
    
   uploadImgBtn.setOnClickListener(new View.OnClickListener() {  
   @Override  
   public void onClick(View v) {  
   dialog.dismiss();  
   Toast.makeText(ProfileActivity.this, "Cập nhật thành công", Toast.LENGTH\_SHORT).show();  
   }  
   });  
    
   dialog.show();  
   dialog.getWindow().setLayout(ViewGroup.LayoutParams.MATCH\_PARENT, ViewGroup.LayoutParams.WRAP\_CONTENT);  
   dialog.getWindow().setBackgroundDrawable(new ColorDrawable(Color.TRANSPARENT));  
   dialog.getWindow().getAttributes().windowAnimations = R.style.DialogAnimation;  
   dialog.getWindow().setGravity(Gravity.BOTTOM);  
   }  
   public void onClickRequestPermission() {  
   if (checkSelfPermission(Manifest.permission.READ\_EXTERNAL\_STORAGE) == PackageManager.PERMISSION\_GRANTED) {  
   openGallery();  
   } else {  
   String [] permission = {Manifest.permission.READ\_EXTERNAL\_STORAGE};  
   requestPermissions(permission, MY\_REQUEST\_CODE);  
   }  
   }  
    
   @Override  
   public void onRequestPermissionsResult(int requestCode, @NonNull String[] permissions, @NonNull int[] grantResults) {  
   super.onRequestPermissionsResult(requestCode, permissions, grantResults);  
   if (requestCode == MY\_REQUEST\_CODE) {  
   if (grantResults.length > 0 && grantResults[0] == PackageManager.PERMISSION\_GRANTED) {  
   openGallery();  
   }  
   }  
   }  
   private void openGallery() {  
   Intent intent = new Intent();  
   intent.setType("image/\*");  
   intent.setAction(Intent.ACTION\_GET\_CONTENT);  
   mActivityResultLauncher.launch(Intent.createChooser(intent, "Select Picture"));  
   }  
  }