

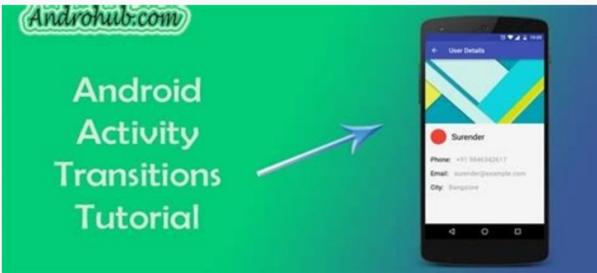
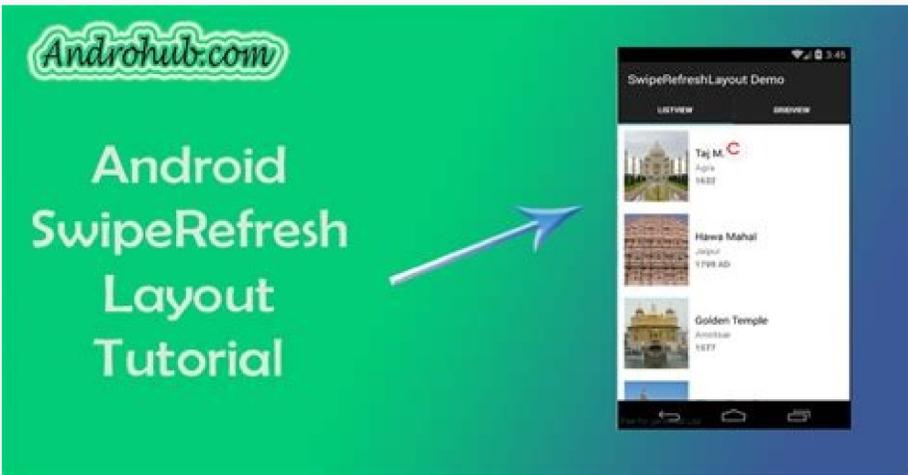


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Next

Recyclerview like viewpager android



You can check the video on top I have added to see how it looks. Usually, we use ViewPager for collection sliding views like fragments, images, or any view sections. Until then Happy Trails. You can make more changes for items similarly. But today I will describe how we can create it using RecyclerView. RecyclerView usually used to show the list or any collections. When we click 3rd item in MainActivity then item is set to directly visible in MainActivity when user opens. In this article you are going to learn and build how to implement how user can navigate from RecyclerView items to ViewPager2 and swipe between those items. item_list.xml: Since ViewPager2 makes use of RecyclerView as adapter to show items we can customize its performance and design in many ways. We can make use of DiffUtils, layout direction such as right-to-left, both vertical and horizontal direction to show items, PageTransformations etc. If you found difficulty in following along with me you can download the project from my GitHub or from link directly I have added below. That's it guys! Thanks for the read. ViewPager2 lets you swipe between fragments with or without TabLayout and also swipe items inside RecyclerView in both horizontal and vertical direction. In order to implement ViewPager2 in any project, first make sure the project uses AndroidX or else you have to migrate to AndroidX first, link is provided at the end for migration guide. ViewPager2 comes with right-to-left support, orientation changes, now you can use RecyclerView with ViewPager which can enable usage of DiffUtils, LayoutManager, PageTransformations. Fragments as pages which are modifiable etc. More useful articles are coming soon so subscribe now. If you want me to write article on other android components then let me know through contact form. For this, we have to define LayoutManager for layout behaviour. Sample PageTransformers are available in official Android Documentation here. Create a kotlin file for simple PageTransformer from below code. Let's create layout xml file for items. Sports.kt:

```
import android.content.Context
import android.os.Parcelable
import kotlinx.android.parcel.Parcelize
data class Sports( val id: Int, val banner: Int, val title: String, val subtitle: String, val about: String ) : Parcelable {
    companion object {
        fun sportsList(context: Context): List {
            return listOf(
                Sports(0, R.drawable.ic_rugby, context.getString(R.string.title_rugby), context.getString(R.string.subtitle_rugby), context.getString(R.string.about_rugby)),
                Sports(1, R.drawable.ic_cricket, context.getString(R.string.title_cricket), context.getString(R.string.subtitle_cricket), context.getString(R.string.about_cricket)),
                Sports(2, R.drawable.ic_hockey, context.getString(R.string.title_hockey), context.getString(R.string.subtitle_hockey), context.getString(R.string.about_hockey)),
                Sports(3, R.drawable.ic_basketball, context.getString(R.string.title_basketball), context.getString(R.string.subtitle_basketball), context.getString(R.string.about_basketball)),
                Sports(4, R.drawable.ic_volleyball, context.getString(R.string.title_volleyball), context.getString(R.string.subtitle_volleyball), context.getString(R.string.about_volleyball)),
                Sports(5, R.drawable.ic_esports, context.getString(R.string.title_esports), context.getString(R.string.subtitle_esports), context.getString(R.string.about_esports)),
                Sports(6, R.drawable.ic_kabaddi, context.getString(R.string.title_kabaddi), context.getString(R.string.subtitle_kabaddi), context.getString(R.string.about_kabaddi)),
                Sports(7, R.drawable.ic_baseball, context.getString(R.string.title_baseball), context.getString(R.string.subtitle_baseball), context.getString(R.string.about_baseball)),
                Sports(8, R.drawable.ic_mma, context.getString(R.string.title_mma), context.getString(R.string.subtitle_mma), context.getString(R.string.about_mma)),
                Sports(9, R.drawable.ic_soccer, context.getString(R.string.title_soccer), context.getString(R.string.subtitle_soccer), context.getString(R.string.about_soccer)),
                Sports(10, R.drawable.ic_handball, context.getString(R.string.title_handball), context.getString(R.string.subtitle_handball), context.getString(R.string.about_handball))
            )
        }
    }
}
```

```
context.getString(R.string.title_handball), context.getString(R.string.subtitle_handball), context.getString(R.string.about_handball) ), Sports(11, R.drawable.ic_tennis), context.getString(R.string.title_tennis), context.getString(R.string.subtitle_tennis), context.getString(R.string.about_tennis) ) ) } } } Create item_list layout file to show each item in list with adapter. Add dependencies to your project Start with new android studio project choosing Empty Activity. Give project and package name and select language Kotlin. Minimum SDK as API 21: Lollipop and finish gradle.build(Module: app): implementation 'androidx.constraintlayout:constraintlayout:2.0.4' implementation 'com.google.android.material:material:1.3.0' implementation 'androidx.viewpager2:viewpager2:1.0.0' implementation 'androidx.recyclerview:recyclerview:1.2.0' We need data such as string resources to show in layout, let's copy the strings for showing titles and other data, colors, drawables and styles for the app. Get all the strings and paste into your strings.xml file. Get all the colors and paste into your colors.xml file. Get all the styles and paste into your styles.xml file. Get all drawables and paste into your drawables folder. Below i have added two material changes to the ViewPager2 which you can add to the previous classes with less changes. Using SnapHelper we can make single item scroll at a time like this way. Then you will see the magic RecyclerView will behave like a ViewPager. Uses area: Image Slider, Product Slider, View Slider etc. Thank you and Happy Coding :) Hey people! Welcome to my blog. Here I am giving an example how RecyclerView declares and add layout manager. Then an adapter will add to show the whole list with item view. DetailActivity.kt: val viewPagerAdapter = DetailViewPagerAdapter(sportsList, this, viewPager2) Run the app and check swipe you will see views will be hidden while scrolling, this same preview also shown in above video. activity_detail.xml: MainActivity.kt: import android.content.Intent import android.os.Bundle import androidx.appcompat.app.AppCompatActivity import androidx.recyclerview.widget.RecyclerView class MainActivity : AppCompatActivity() { override fun onCreate(savedInstanceState: Bundle?) { super.onCreate(savedInstanceState) setContentView(R.layout.activity_main) val sportsList: List = Sports.sportsList(applicationContext) val recyclerView: RecyclerView = findViewById(R.id.recycler_view) val adapter = SportsAdapter(sportsList, sportsItemClickListener) recyclerView.adapter = adapter } private val sportsItemClickListener = SportsAdapter.OnItemClickListener { sports -> val intent = Intent(this, DetailActivity::class.java) intent.putExtra("Intent to Detail Activity", sports) startActivity(intent) } } We have added ClickListener in MainActivity which sends to DetailActivity with intent and also takes data which is Sports model class. Let's create DetailActivity for showing ViewPager2. Now let's create a data model class Sports.kt which helps in making a list. SportsAdapter.kt: import android.view.LayoutInflater import android.view.View import android.view.ViewGroup import android.widget.ImageView import android.widget.TextView import androidx.recyclerview.widget.RecyclerView class SportsAdapter(private val sportsList: List, private val onItemClick: OnItemClickListener) : RecyclerView.Adapter() { class SportsViewHolder(itemView: View) : RecyclerView.ViewHolder(itemView) { private val banner: ImageView = itemView.findViewById(R.id.banner_item_image_view) private val title: TextView = itemView.findViewById(R.id.title_item_text_view) private val subtitle: TextView = itemView.findViewById(R.id.subtitle_item_text_view) fun bind(sports: Sports, onItemClick: OnItemClickListener) { banner.setImageResource(sports.banner) title.text = sports.title subtitle.text = sports.subtitle itemView.setOnClickListener { onItemClick.onClick(sports) } } } override fun onCreateViewHolder(parent: ViewGroup, viewType: Int): SportsViewHolder { return SportsViewHolder(LayoutInflater.from(parent.context).inflate(R.layout.item_list, parent, false) ) } override fun onBindViewHolder(holder: SportsViewHolder, position: Int) { val sports: Sports = sportsList[position] holder.bind(sports, onItemClick) } override fun getItemCount() = sportsList.size class OnItemClickListener(val clickListener: (sports: Sports) -> Unit) { fun onClick(sports: Sports) = clickListener(sports) } } With the model class, adapter and item layout we proceed to show data in MainActivity class. Since our app theme style is NoActionBar we add our own widget for Toolbar, add this below code to MainActivity layout and class to show RecyclerView. One more change i have added is hiding the views while user swipes the items.
```

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