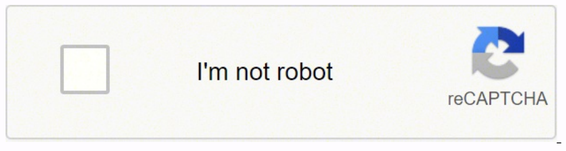
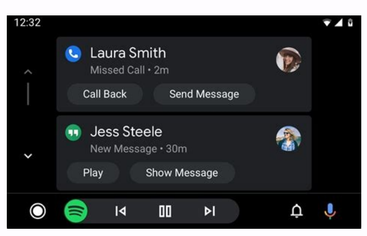
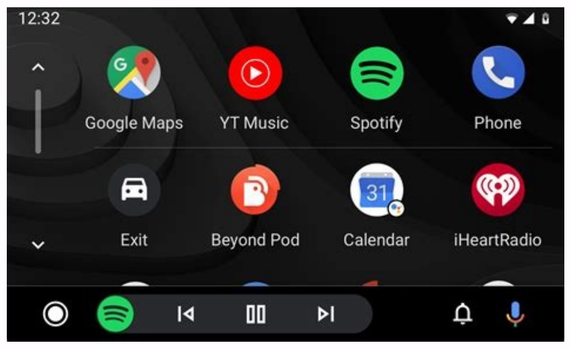
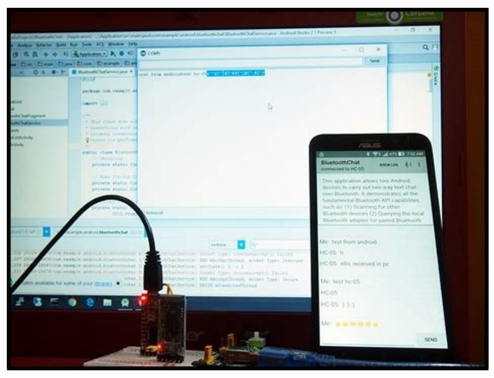


Next

Change viewpager adapter android







Android viewpager change adapter.

For those who still have issues, do like what I did. It is in Xamarin.Android, but idea should be same in java and kotlin Prepare your Adapter classes with ClearFragments method through an abstract class: public abstract class BaseAdapter : FragmentStateAdapter { public BaseAdapter(FragmentManager fm, Lifecycle lifecycle) : base(fm, lifecycle) { this.fm = fm; } readonly FragmentManager fm; public override int ItemCount => ITEM_COUNT; private readonly List fragments = new List(); public override Fragment CreateFragment(int position) { var fragment = new MyFragment(); fragments.Add(fragment); return fragment; } public void ClearFragments() { if (fragments.Count > 0) { var transaction = fm.BeginTransaction(); foreach (var fragment in fragments) { transaction.Remove(fragment); } if (!fm.IsDestroyed) { transaction.CommitNow(); } //see note of Dispose(disposing) foreach (var fragment in fragments) { fragment.Dispose(); } fragments.Clear(); } } private bool disposedValue = false; //Important note: Your fragment might use Context. As so the reload effect is obtained.讓每次呼叫PagerAdapter時，都會被誤判會POSITION_NONE並重新建置所有View。如此一來會造成效能上很大的問題，而且邏輯上也是不太正確。我一開始也是使用這方法來解決我碰到的問題，但後來另一位大大alvarolb為此種錯誤的解法方式做了一些解釋，當中提到為何改寫getItemPosition為永遠回POSITION_NONE是錯誤的邏輯，原文如下 : The notifyDataSetChanged() method on the PagerAdapter will only notify the ViewPager that the underlying pages have changed. A data set change may involve pages being added, removed, or changing position. The ViewPager will keep the current page active provided the adapter implements the method getItemPosition(Object).原文看完後，大概是說明Adapter會自動控管View Pager每一頁(Item)的狀態，而notifyDataSetChanged()是用在當View Pager要新增一頁、刪除一頁或改變各個頁面的排列的時候。所以ViewPager Adapter的notifyDataSetChanged自然就不適用於只要更新View Pager裡面某個View的內容的需求啦。所以alvarolb也針對此向需求做了一翻解釋My approach is to use the setTag() method for any instantiated view in the instantiateItem() method. You need to override Dispose(disposing) in your fragment class //and ensure you do not use Context after you dispose it here protected override void Dispose(bool disposing) { if (!disposedValue) { disposedValue = true; if (disposing) { ClearFragments(); } base.Dispose(disposing); } } } public Adapter1 : BaseAdapter { public Adapter1(FragmentManager fm, Lifecycle lifecycle) : base(fm, lifecycle) { } } public Adapter2 : BaseAdapter { public Adapter2(FragmentManager fm, Lifecycle lifecycle) : base(fm, lifecycle) { } } Then when you want to change adapter, do like this: public MainActivity : AppCompatActivity { private void UseAdapter2() { var oldAdapter = viewPager.Adapter as BaseAdapter; oldAdapter?.ClearFragments(); viewPager.Adapter = null; var adapter = new Adapter2(SupportFragmentManager, Lifecycle); // Do any logic that makes this adapter different from the previous one. I wish it will save your time. viewPager.Adapter = adapter; oldAdapter?.Dispose(); } } 在stackoverflow有一篇文章的問題是"ViewPager PagerAdapter not updating the View"，在觀看這篇文章時，剛好我的app應用也有類似的問題，就是該如果更新ViewPager裡某一個View的內容，而不是全部砍掉重建。後來在欣賞外國佬的回答後，有位大大rui.araujo提出一個十分容易解決的方式，就是改寫getItemPosition()Override getItemPosition in your PagerAdapter like this:public int getItemPosition(Object object) { return POSITION_NONE;}This way, when you call notifyDataSetChanged(), the view pager will remove all views and reload them all. In this case i think that the ViewPager determines if a new view should be deleted or instantiated using the getItemPosition() and getCount() methods.就連官方SDK文件也說明了ViewPager Adapter notifyDataSetChanged的用意為PagerAdapter supports data set changes. Data set changes must occur on the main thread and must end with a call to notifyDataSetChanged() similar to AdapterView adapters derived from BaseAdapter. So when you want to change the data or invalidate the view that you need, you can call the findViewWithTag() method on the viewPager to retrieve the previously instantiated view and modify/use it as you want without having to delete create any new view each time you want to update some value.關鍵點就是在instantiateItem時，將有需要在後續進行內容更新的view來setTag()，並且在需要更新的時候，使用viewpager的findViewWithTag()，來找到要更新的View並進行更新。講了這麼長的文章，還是來用程式碼來說明會來的直覺一點，我有省略很多細節，主要把精隨分享給大家。 @Override public Object instantiateItem(ViewGroup container, int position) { View view = null; view = mInflater.inflate(R.layout.record_list_layout, null); TextView tvRecord = (TextView) view.findViewById(R.id.tv_record); String key = "tvRecord" + position; // 關鍵點，針對要更新的View來設定Tag，主要是在後續使用ViewPager.findViewWithTag()時，可以找到要更新的View tvRecord.setTag(key); container.addView(view); return view; } // 在後續的應用當中，如果要開始更新View Pager當中某個View的內容時，需要進行下列動作 TextView tvRecord = myViewPager.findViewWithTag("tvRecord1"); // 假設要更新第2頁的TextView // 進行內容更新 if (tvRecord != null) { tvRecord.setText("update"); } /* end of if */ 以上是小弟我了解後的心得，分享給大家，若有錯誤，也煩請指正，謝謝大家啦，下台一鞠躬 For example, if you have create/deleted dynamically pages (adding or removing items from your list) the ViewPager should take care about that.

ViewPager in Android. Android ViewPager Example Tutorial. Android PagerAdapter, android view pager, android pager adapter, code download demo project. Nov 01, 2017 · Add this line at the bottom of the onCreate() method to link your ViewPager reference to the xml view you created previously:. viewPager = findViewById(R.id.viewPager) Implementing the PagerAdapter. Step one completed! You now have a ViewPager that doesn’t do anything particularly interesting without an Adapter that tells it what to display. If you run the … Android Introduction Slider Example. In this example, we will use SharedPreferences class that is used to keep the state whether the app is being launched the first time or not. If the app is launched for the very first time, then it displays sliders before launching the application otherwise launch MainActivity. Jul 13, 2021 · In Android, Gallery is a view that can show items in a center locked, horizontal scrolling list, and hence the user can able to select a view, and then the user selected view will be shown in the center of the Horizontal list. “N” number of items can be added by using the Adapter. The adapter is a bridging component between UI component and data source(It can be an … Dec 02, 2020 · Paging for Leanback simplifies adding paging support to a RecyclerView.Adapter. Added appcompat themes for leanback that will simplify the creation of a single code base between mobile and TV. API Changes. Added adapter based on asyncpagingdatadiffer for leanback widgets Sep 21, 2021 · ViewPager Using Fragments in Android. Steps for implementing viewpager: Adding the ViewPager widget to the XML layout (usually the main_layout). Creating an Adapter by extending the FragmentPagerAdapter or FragmentStatePagerAdapter class. An adapter populates the pages inside the Viewpager. Nov 23, 2021 · Library architecture. This section describes and shows the main components of the paging library. PagedList. The Paging Library's key component is the PagedList class, which loads chunks of your app's data, or pages.As more data is needed, it's paged into the existing PagedList object. If any loaded data changes, a new instance of PagedList is emitted to the …

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