Intent Thực hiện bởi Nhóm 6



01

Intent là gì?

Phân loại Intent

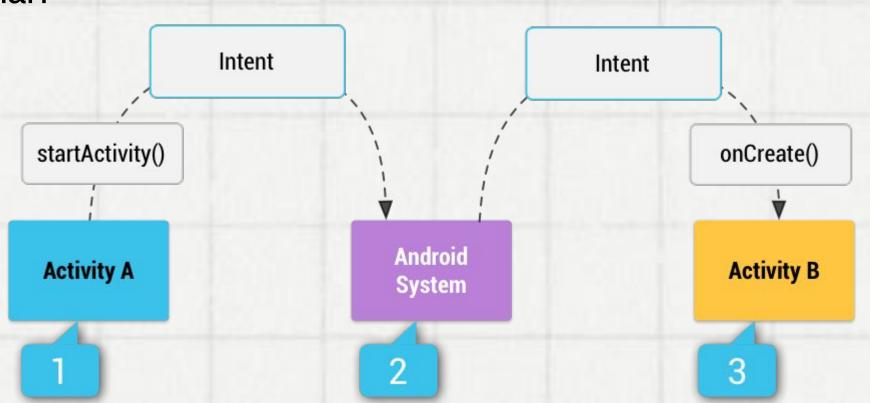
02

Cách gửi Intent

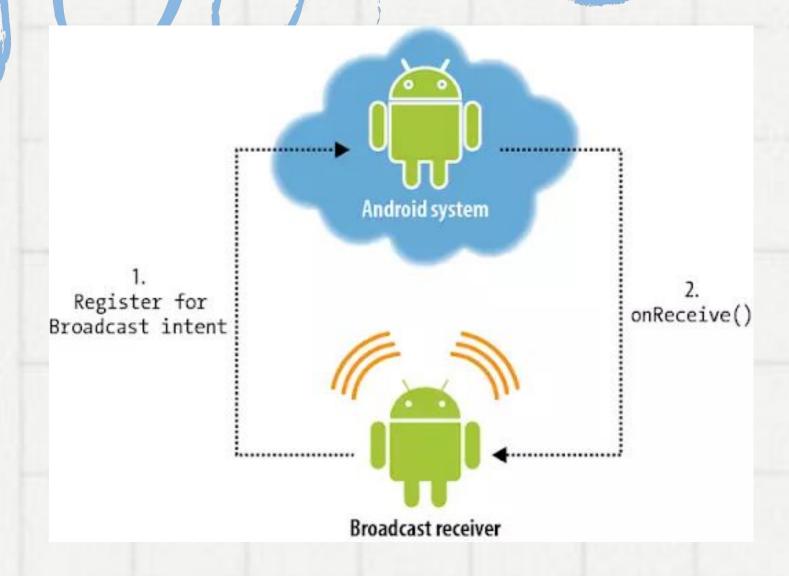
Intent

 Intent là những object tin nhắn không đồng bộ có thể sử dụng để yêu cầu hành động từ các thành phần Android khác

- Có 2 loại Intent:
 - Intent tường minh (Explicit Intent)
 - Intent không tường minh (Implicit Intent)

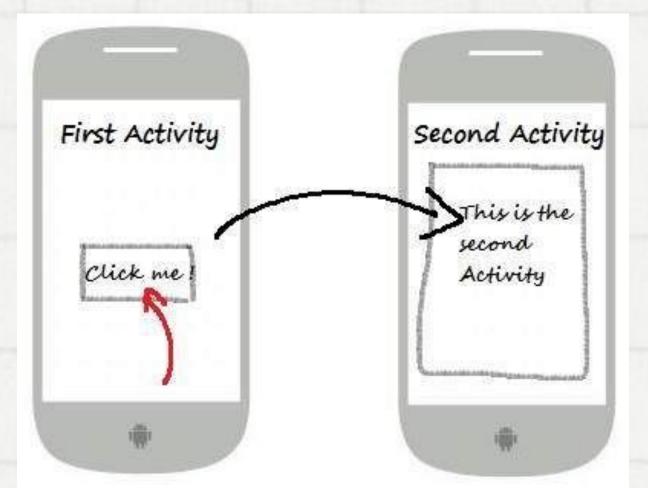


Intent có thể được sử dụng để:

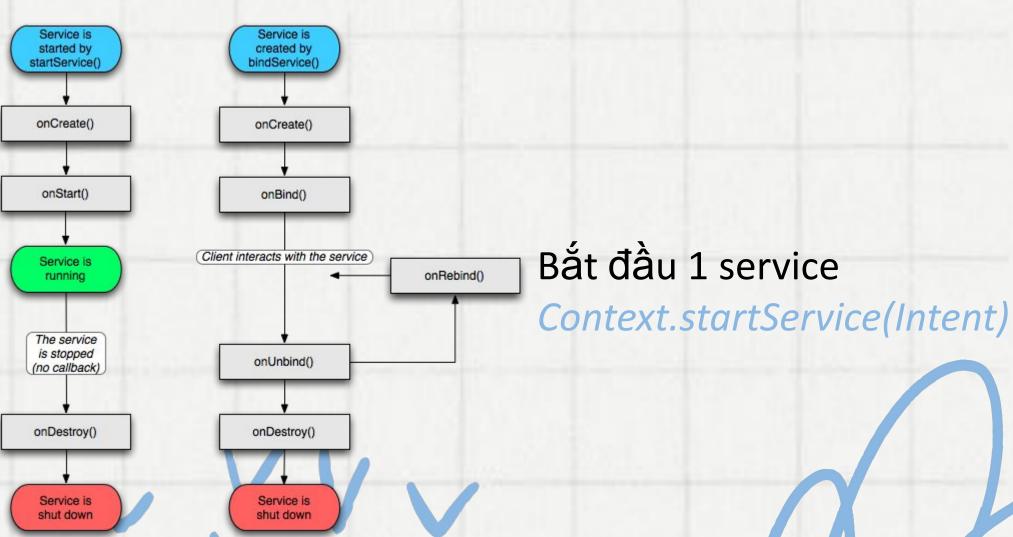


Broadcast tới những

BroadcastReceiver phù hợp



Bắt đầu 1 activity khác: startActivity()



Explicit Intent

```
val intent = Intent( packageContext: this, OrderActivity::class.java)
startActivity(intent)
```

```
override fun onOptionsItemSelected(item: MenuItem): Boolean {
   when (item.itemId) {
        R.id.<u>item1</u> -> startActivity(Intent( packageContext: this, OrderActivity::class.java))
        R.id.<u>item2</u> -> startActivity(Intent( packageContext: this, SubActivity::class.java))
        else -> finish()
   }
```

Explicit Intent

```
D:\Users\DucNM\Android_Studio\SDK\platform-tools>adb shell emu64x:/ $ pm list packages | grep youtube package:com.google.android.apps.youtube.music package:com.google.android.youtube emu64x:/ $
```

```
val intent = Intent(Intent.ACTION_MAIN)
intent.<u>`package`</u> = "com.google.android.youtube"
startActivity(intent)
```

Implicit Intent

```
val uri: Uri = Uri.parse( uriString: "smsto:$phone");
val intent = Intent(Intent.ACTION_SENDTO, uri);
intent.putExtra( name: "sms_body", smsOrder);
startActivity(intent)
```

Intent Information

- Component Name
- Action
- Data => Type
- Category
- Extras Flag

Intent Information

The primary pieces of information in an intent are:

- action -- The general action to be performed, such as ACTION_VIEW, ACTION_EDIT, ACTION_MAIN, etc.
- data -- The data to operate on, such as a person record in the contacts database, expressed as a Uri.

Some examples of action/data pairs are:

- ACTION_VIEW content://contacts/people/1 -- Display information about the person whose identifier is "1".
- ACTION_DIAL content://contacts/people/1 -- Display the phone dialer with the person filled in.
- ACTION_VIEW tel:123 -- Display the phone dialer with the given number filled in. Note how the VIEW action
 does what is considered the most reasonable thing for a particular URI.
- ACTION_DIAL tel:123 -- Display the phone dialer with the given number filled in.
- ACTION_EDIT content://contacts/people/1 -- Edit information about the person whose identifier is "1".
- ACTION_VIEW content://contacts/people/ -- Display a list of people, which the user can browse through. This
 example is a typical top-level entry into the Contacts application, showing you the list of people. Selecting a
 particular person to view would result in a new intent { ACTION_VIEW content://contacts/people/N } being
 used to start an activity to display that person.

Intent Information

- Categories: LAUNCHER, DEFAULT, BROWSABLE, HOME, PREFERENCE...
- Type:
 - URI (data)
 - Explicitly type
 - Scheme (http: or mailto:...)

```
val uri: Uri = Uri.parse( uriString: "smsto:$phone");
val intent = Intent(Intent.ACTION_SENDTO, uri);
intent.putExtra( name: "sms_body", smsOrder);
startActivity(intent)
```

Intent Information: Extras

Bundle Object

```
putExtra
putExtra(name: String!, value: IntArray?)
                                                         Intent
m putExtra(name: String!, value: ByteArray?)
                                                         Intent
m putExtra(name: String!, value: CharArray?)
                                                         Intent
m putExtra(name: String!, value: LongArray?)
                                                         Intent
putExtra(name: String!, value: FloatArray?)
                                                         Intent
m putExtra(name: String!, value: Parcelable?)
                                                         Intent
m putExtra(name: String!, value: ShortArray?)
                                                         Intent
m putExtra(name: String!, value: DoubleArray?)
                                                         Intent
putExtra(name: String!, value: BooleanArray?)
                                                         Intent
mputExtra(name: String!, value: CharSequence?)
                                                         Intent
m putExtra(name: String!, value: Serializable?)
                                                         Intent
```

```
m getFloatExtra(name: String!, defaultValue: Float)
                                                            Float

    getIntArrayExtra(name: String!)

                                                        IntArray?

    getIntExtra(name: String!, defaultValue: Int)

                                                               Int
m getIntegerArrayListExtra(name: String!)
                                                ArrayList<Int!>?

    getLongArrayExtra(name: String!)

                                                       LongArray?

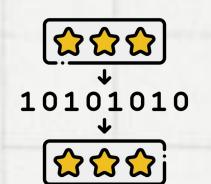
@ getLongExtra(name: String!, defaultValue: Long)

                                                              Long

    getParcelableArrayExtra(name: String?, cla... Array<(out) T!>?

@ getParcelableArrayListExtra(name: String?, c... ArrayList<T!>?

m getParcelableExtra(name: String?, clazz: Class<T!>)
m getSerializableExtra(name: String?, clazz: Class<T!>)
 getShortArrayExtra(name: String!)
                                                      ShortArray?
antchantertan (nama: Chainal dofaultValua: Chant) Chant
ress Enter to insert, Tab to replace Next Tip
```



Serializable



Parcelable

Intent Information: Extras

else

intent?.getParcelableExtra<Person>(name: "person")!!

```
package com.example.app1
                                                                        override fun onNewIntent(intent: Intent?) {
import android.os.Parcelable
                                                                             super.onNewIntent(intent)
import kotlinx.parcelize.Parcelize
@Parcelize
data class Person(val name: String, val age: Int) : Parcelable
val myPerson = Person( name: "Minh", age: 90)
val intent = Intent( packageContext: this, SubActivity::class.java).apply { this:Intent
    putExtra( name: "person", myPerson)
startActivity(intent)
 val myPerson: Person = if(Build.VERSION.SDK_INT >= Build.VERSION_CODES.TIRAMISU)
     intent?.getParcelableExtra( name: "person", Person::class.java)!!
```

Cảm ơn mọi người đã lắng nghe!

Thực hiện bởi Nhóm 6