Android Tutorial for Beginners 36 # Bound Services



Rejoindre

S'abonner

https://www.youtube.com/watch?v=cJsqMisTaa8

Bound service extending the Binder class

Bound Services

A bound service is the server in a client-server interface. A bound service allows components (such as activities) to bind to the service, send requests, receive responses, and even perform interprocess communication (IPC).

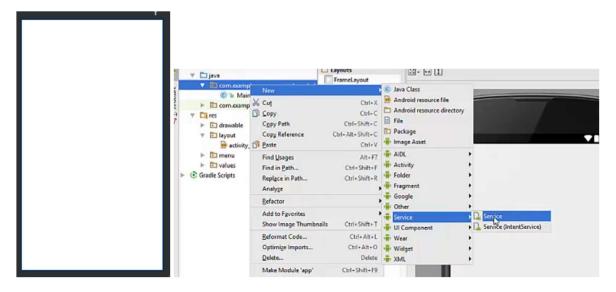
Creating a Bound Service

Extending the Binder class: - If your service is private to your own application and runs in the same process as the client (which is common), you should create your interface by extending the Binder class and returning an instance of it from onBind()

Using a Messenger

Using AIDL :- AIDL (Android Interface Definition Language)

I New project et créer un service dans le package



```
public class MyServicePB extends Service {
    public class LocalBinder extends Binder {

    }
    public MyServicePB() {
    }

    @Override
    public IBinder onBind(Intent intent) {
        // TODO: Return the communication channel to the service.
        throw new UnsupportedOperationException("Not yet implemented");
}
}
```

```
public class MyServicePB extends Service {
    public class LocalBinder extends Binder {
        MyServicePB getService() {
            return MyServicePB.this;
        }
        public MyServicePB() {
        }
        QOverride
    public IBinder onBind(Intent intent) {
            // TODO: Return the communication channel to the service.
            throw new UnsupportedOperationException("Not yet implemented")
        }
    }
}
```

Ajouter private final Ibinder ibBinder ... et return iBinder

```
public class MyServicePB extends Service {
    1 usage
    private final IBinder iBinder= new LocalBinder();
    private final Random mGenerator = new Random();
```

```
Jusage

public class MyServicePB extends Service {

lusage
private final IBinder iBinder= new LocalBinder();

lusage
private final Random mGenerator = new Random();

lusage
public class LocalBinder extends Binder {

MyServicePB getService() {

return MyServicePB.this;
}

public MyServicePB() {
}

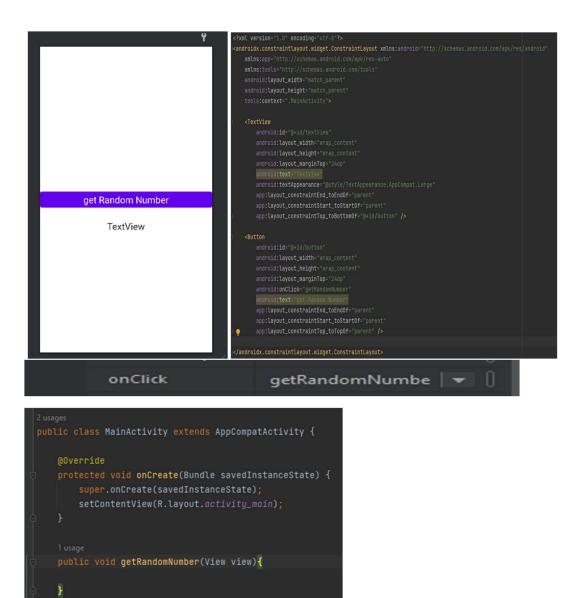
@Override
public IBinder onBind(Intent intent) {

// TODO: Return the communication channel to the service.
return iBinder;
}

public int getRandom() {

return mGenerator.nextInt( bounde 200); // random generé de 0 a 200
}
```

Activity-main.xml ajouter bouton (large), onClick getRandomNumber et un TextView



Dans MainActivity, créer méthode onRandomNumber

Créer 2 variables

```
public void getRandomNumber(View view){

}
private ServiceConnection serviceConnection = new ServiceConnection() {
    @Override
    public void onServiceConnected(ComponentName name, IBinder service) {
    }
    @Override
    public void onServiceDisconnected(ComponentName name) {
    }
}
```

```
private ServiceConnection serviceConnection = new ServiceConnection() {
    @Override
    public void onServiceConnected(ComponentName name, IBinder service) {
        MyServicePB.LocalBinder binder=(MyServicePB.LocalBinder) service;
        myService=binder.getService();
        isBound=true;
    }
    @Override
    public void onServiceDisconnected(ComponentName name) {
        isBound=false
    }
};
```

Dans onCreate créer un Intenet et un bindService

```
protected void onCreate(Bundle savedInstanceState) {
   super.onCreate(savedInstanceState);
   setContentView(R.layout.activity_main);
   Intent intent=new Intent( packageContext this,MyServicePB.class);
   bindService(intent,serviceConnection, Context.BIND_AUTO_CREATE);
}

1 usage
public void getRandomNumber(View view) {
   TextView textView = (TextView) findViewById(R.id.textView);
   textView.setText(Integer.toString(myService.getRandom()));
}
```

