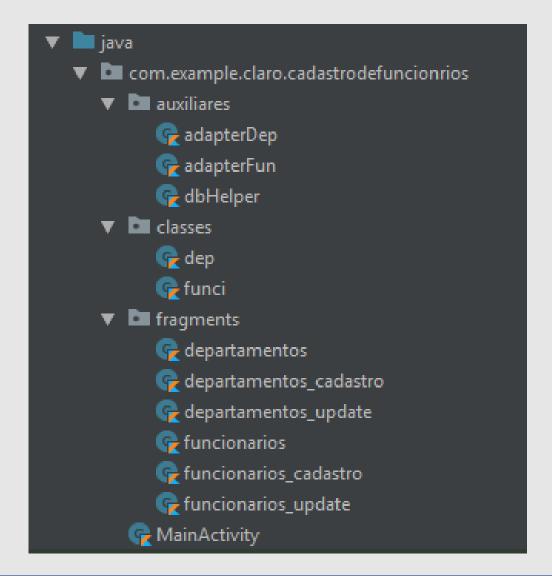


Estrutura do Projeto



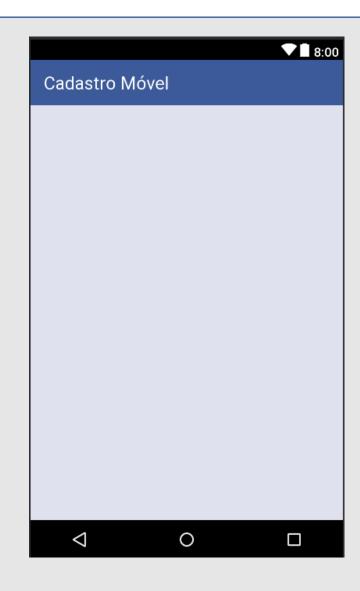
- ❖ 1 Activity
 - Main Activity
- 2 classes
 - Funcionários
 - Departamentos
- 6 Fragments
 - Departamentos
 - Cadastro Departamentos
 - Atualização Departamentos
 - Funcionários
 - Cadastro de Funcionários
 - Atualização de Funcionários
- ❖ 3 Auxiliares
 - Adaptador Lista Departamento
 - Adaptador Lista Funcionários
 - Banco de Dados





Main Activity

```
override fun onCreate(savedInstanceState: Bundle?)
    super.onCreate(savedInstanceState)
    setContentView(R.layout.activity main)
    inicio()
fun inicio()
    supportFragmentManager.beginTransaction().replace(R.id.container,
        departamentos()
    ).commit()
```





Main Activity

```
class Compartilhado : ViewModel()
   val selecionado = MutableLiveData<dep>()
   val funSelecionado = MutableLiveData<funci>()
    fun select(item: dep)
        selecionado.value = item
    fun selectFun(item: funci)
        funSelecionado.value = item
```

View Model tem como objetivo armazenar dados gerados por uma activity/fragment mesmo depois do seu fechamento



Cadastro de Funcionários Classes

4

Departamentos:

```
data class dep (var nome: String, var img: Int, var sigla : String, var id : Int)
```

Funcionários:

```
\texttt{data class funci (var } \underline{\texttt{nome}} : \texttt{String, var } \underline{\texttt{id}} : \texttt{Int, var } \underline{\texttt{rg}} : \texttt{String, var } \underline{\texttt{idDpto}} : \texttt{Int, var } \underline{\texttt{img}} : \texttt{Int)}
```



Fragmento - Departamentos

```
override fun onCreateView(inflater: LayoutInflater, container: ViewGroup?, savedInstanceState: Bundle?): View?
{
    super.onCreate(savedInstanceState)
    model = activity?.rum {ViewModelProviders.of( activity: this).get(MainActivity.Compartilhado::class.java)
    } ?: throw Exception("Invalid Activity")

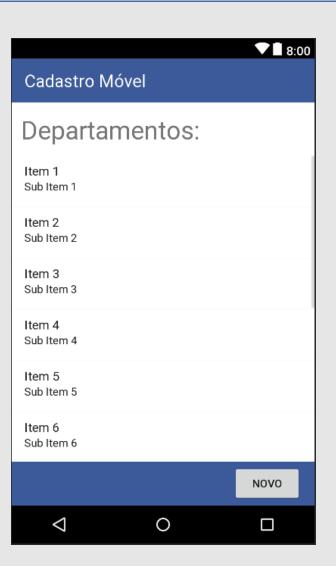
val fgView = inflater.inflate(R.layout.departamentos, container, attachToRoot: false)

val listView = fgView.lista_dep as ListView

var nomes: ArrayList<dep> = ArrayList()

db = dbHelper(activity!!.applicationContext)

nomes = db.listarDpto()
```





Fragmento - Departamentos

```
if (nomes.count() > 0) {
    listView.adapter = adapterDep(
        activity!!.applicationContext,
        nomes, mcontext this
}

fgView.lista_dep.setOnItemClickListener() { adapterView, view, i, l ->
    val dptoAtual: dep = nomes[i]

    model.select(dptoAtual)

    fragmentManager?.beginTransaction()?.replace(
        R.id.container,
        funcionarios()
    )?.remove(this)?.commit()
}
```



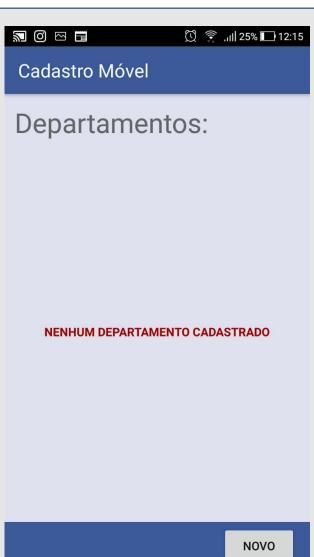




Fragmento - Departamentos

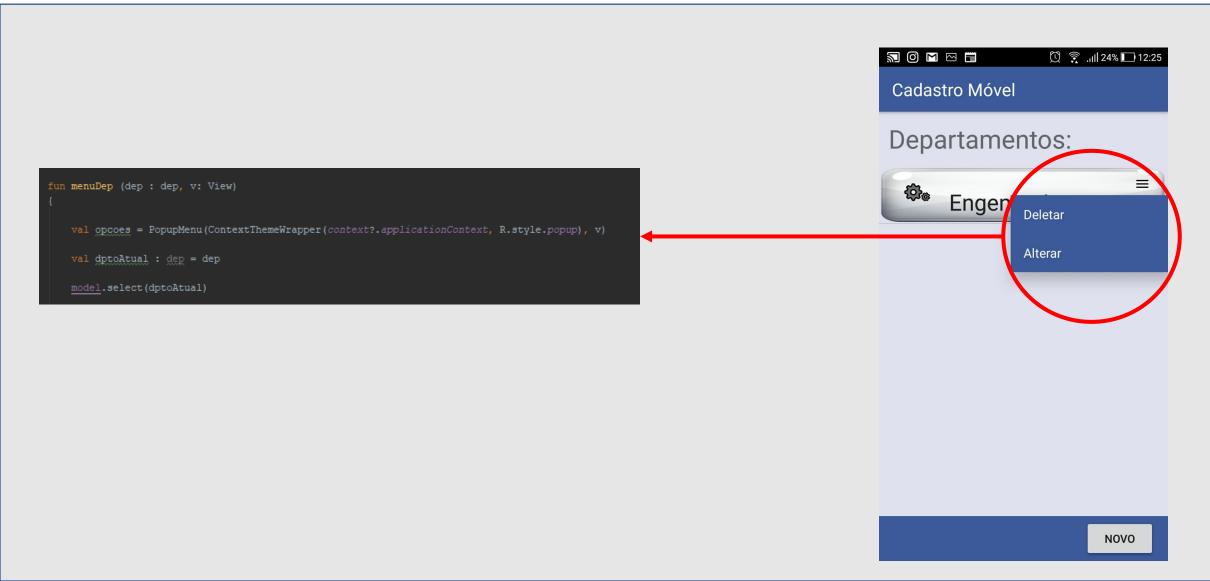
```
else
{
    fgView.txt_sem_cad.<u>visibility</u> = View.VISIBLE
    listView.adapter = adapterDep(
        activity!!.applicationContext,
        nomes, mcontext: this
    )
}
```

```
fgView.bt_nv_dep.setOnClickListener { view ->
    fragmentManager?.beginTransaction()?.replace(
        R.id.container,
        departamentos_cadastro()
    )?.remove(this)?.commit()
}
```





Fragmento - Departamentos - menuDep





Fragmento - Departamentos - menuDep

```
opcoes.setOnMenuItemClickListener { item ->
           val builder = AlertDialog.Builder(activity as Context)
           builder.setTitle("ATENÇÃO: ")
           builder.setMessage("Deseja mesmo deletar ${dep.nome}?")
           builder.setPositiveButton( text: "SIM") { dialog, which ->
               Log.d( tag: "CURA", msg: "ALERTA : SIM")
               db.deletarDpto(dep.component4())
               val dptoAtual : Int = model.selecionado.value!!.component4()
               db.deletarFun(dptoAtual)
               fragmentManager?.beginTransaction()?.replace(R.id.container,
                   departamentos()
               )?.remove(this)?.commit()
```





Fragmento - Cadastro Departamento

```
rerride fun onCreateView(inflater: LayoutInflater, container: ViewGroup?, savedInstanceState: Bundle?): View? {
                                                                                                                                             Cadastro Móvel
 val fgView = inflater.inflate(R.layout.departamentos cadastro, container, attachToRoot false)
 db = dbHelper(activity!!.applicationContext)
                                                                                                                      Cadastro de departamento:
 val imgs: IntArray = intArrayOf (R.drawable.d1, R.drawable.d2, R.drawable.d3, R.drawable.d4, R.drawable.d5)
                                                                                                                      Nome:
                                                                                                                      Sigla:
                       fgView.bt_cad_img_ant.setOnClickListener { view ->
                                                                                                                      Icone:
                           img_dpto.setImageResource(imgs[i])
                      fgView.bt_cad_voltar.setOnClickListener { view ->
                          fragmentManager?.beginTransaction()?.replace(
                              R.id.container,
                              departamentos()
                          )?.remove(this)?.commit()
                                                                                                                                                     INSERIR
```



Fragmento - Cadastro Departamento

```
ar nome : String = nome_dpto.text.toString()
     ar sigla : String = sigla_dpto.text.toString()
    var img = imgs[i]
   val regex = Regex( pattern: ".*\\d+.*")
   if (nome.matches(regex) || nome == "" || sigla == "")
       Toast.makeText(activity, text: "Dados Inseridos Inválidos", Toast.LENGTH SHORT).show()
       db.inserirDpto(nome, sigla, img)
       fragmentManager?.beginTransaction()?.replace(R.id.container,
           departamentos()
       )?.remove(this)?.commit()
   fgView.hideKeyboard()
```

83 S 1 200 1 10 F0
© 🤶 ,,, 23% 🗖 12:58 Cadastro Móvel
Cadastro de departamento:
Nome:
Sigla:
Icone:
< ॐ →
Dados Inseridos Inválidos
VOLTAR INSERIR



Fragmento - Atualização Departamento

```
val dptoAtual = model.selecionado.value

fgView.nome_dpto_up.setText(dptoAtual?.nome)
fgView.sigla_dpto_up.setText(dptoAtual?.sigla)
fgView.img_dpto_up.setImageResource(dptoAtual!!.img)

when (dptoAtual!!.img)
{
    R.drawable.d1 -> i = 0
    R.drawable.d2 -> i = 1
    R.drawable.d3 -> i = 2
    R.drawable.d4 -> i = 3
    R.drawable.d5 -> i = 4
}
```





Fragmento - Funcionários

```
override fun onCreateView(inflater: LayoutInflater, container: ViewGroup?, savedInstanceState: Bundle?): View? {
    super.onCreate(savedInstanceState)
    model = activity?.rum { this: FragmentActivity
        ViewModelProviders.of( activity: this).get(MainActivity.Compartilhado::class.java)
    } ?: throw Exception("Invalid Activity")

val fgView = inflater.inflate(R.layout.funcionarios, container, attachToRoot false)

val listView = fgView.lista_fun as ListView

db = dbHelper(activity!!.applicationContext)

val dptoAtual : dep = model.selecionado.value as dep

fgView.titulo_fun.setText("Funcionarios (@dptoAtual.component3())):")

nomesFunc = db.listarFun(dptoAtual.component4())
```

		▼ 🖺 8:00
Cadastro	Móvel	
_	onários (DEP)	
Item 1 Sub Item 1		
Item 2 Sub Item 2		
Item 3 Sub Item 3		
Item 4 Sub Item 4		
Item 5 Sub Item 5		
Item 6 Sub Item 6		
VOLTAR		NOVO
⊲	0	



Fragmento - Funcionários

```
if (nomesFunc.count() > 0)
{
    listView.adapter = adapterFun(activity!!.applicationContext, nomesFunc, mcontext; this)
}
```

```
else
{
    fgView.txt_sem_cad_fun.<u>visibility</u> = View.VISIBLE
}
```

```
fgView.bt_nv_fun.setOnClickListener { view ->
    fragmentManager?.beginTransaction()?.replace(
        R.id.container,
        funcionarios_cadastro()
    )?.remove(this)?.commit()
}
```





Fragmento - Funcionários





Fragmento - Funcionários Cadastro

```
override fun onCreateView(inflater: LayoutInflater, container: ViewGroup?, savedInstanceState: Bundle?): View? {
    super.onCreate(savedInstanceState)
    model = activity?.run { this:FragmentActivity
        ViewModelProviders.of( activity: this).get(MainActivity.Compartilhado::class.java)
    } ?: throw Exception("Invalid Activity")

val fgView = inflater.inflate(R.layout.funcionarios_cadastro, container, attachToRoot: false)

db = dbHelper(activity!!.applicationContext)

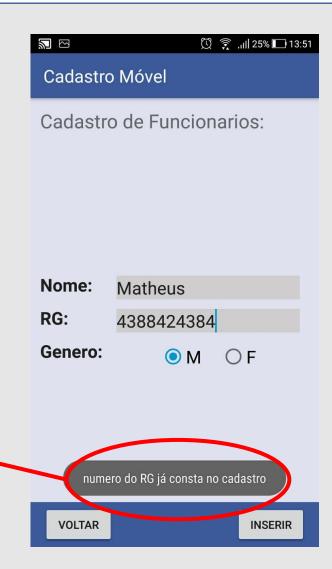
val dptoAtual : Int = model.selecionado.value!!.component4()
```

fgView.bt_fun_inserir.setOnClickListener {
<pre>val nome : String = func_nome.<u>text</u>.toString() val rg : String = func_rg.<u>text</u>.toString()</pre>
<pre>if (fgView.feminino.<u>isChecked</u>) img = R.drawable.female else if (fgView.masculino.<u>isChecked</u>) img = R.drawable.male</pre>

▼ ■ 8:00 Cadastro Móvel			
Cadastro de Funcionarios:			
Nome:			
RG:			
Genero:	\bigcirc M	○ F	
VOLTAR		INSERIR	
◁	0		



Fragmento - Funcionários Cadastro





Fragmento - Funcionários Atualização

```
val funcSelecionado = model.funSelecionado.value

fgView.func_nome_up.setText(funcSelecionado?.componentl())
fgView.func_rg_up.setText(funcSelecionado?.component3())

if (funcSelecionado?.img == R.drawable.female) fgView.feminino_up.isChecked = true
else fgView.masculino_up.isChecked = true
```





Auxiliar - Adaptador Lista Departamento

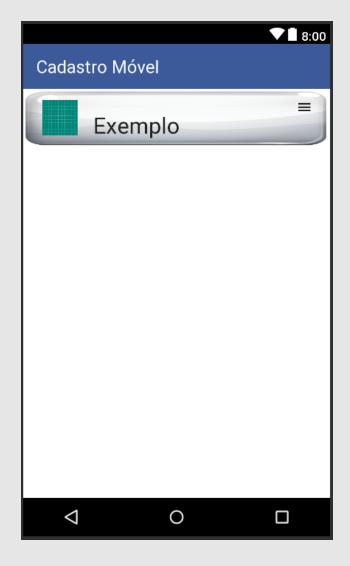
```
class adapterDep (var context: Context, var dataSource: ArrayList<dep>, var mcontext : departamentos) : BaseAdapter()
{
    private class ViewHolder(row: View?) {
        var txtName: TextView? = null
        var imgAvatar: ImageView? = null

        init {
            this.txtName = row?.findViewById(R.id.nome_dpto_list) as TextView
            this.imgAvatar = row?.findViewById(R.id.imgFundo) as ImageView
        }
    }
}
```

```
override fun getView(position: Int, convertView: View?, parent: ViewGroup?): View
{
    val view: View?
    val viewHolder: ViewHolder
    if (convertView == null) {
        val layout = LayoutInflater.from(context)
        view = layout.inflate(R.layout.dep_item, parent, attachToRoot: false)
        viewHolder = ViewHolder(view)
        view.tag = viewHolder

}

else
    {
        view = convertView
        viewHolder = view.tag as ViewHolder
    }
}
```





Auxiliar - Adaptador Lista Departamento



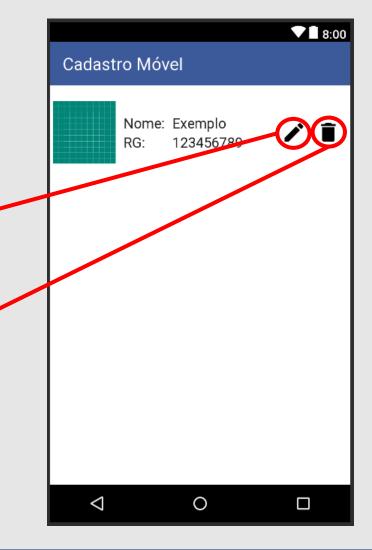


Auxiliar - Adaptador Lista Funcionários

```
private class ViewHolder(row: View?) {
   var txtName: TextView? = null
   var rg: TextView? = null
   var imgAvatar: ImageView? = null

init {
      this.txtName = row?.findViewById(R.id.nome_fun) as TextView
      this.rg = row?.findViewById(R.id.rg) as TextView
      this.imgAvatar = row?.findViewById(R.id.foto) as ImageView
}
```

```
view?.func_remover?.setOnClickListener { view ->
    val novof: funci = dataSource.get(position)
    mcontext.alert(novof)
}
```





Auxiliar - Banco de Dados

```
fun inserirDpto (name: String, sigla: String, img: Int)
{
   val db: SQLiteDatabase = writableDatabase
   val values = ContentValues()
   values.put("name",name)
   values.put("sigla",sigla)
   values.put("img",img)

   db.insert( table: "departamentos", nullColumnHack: null, values)
   db.close()
}
```

```
fun atualizarDep( id: Int, name: String, sigla: String, img: Int)
{
   val db: SQLiteDatabase = writableDatabase
   val values = ContentValues()
   values.put("name",name)
   values.put("sigla",sigla)
   values.put("img",img)

   db.update( table: "departamentos", values, whereClause: "id == $id", whereArgs: null)
   db.close()
}
```



Auxiliar - Banco de Dados

```
fun listarDpto() : ArrayList<dep>
   Log.d( tag: "CURA", msg: "QUERY DEPARTAMENTOS")
    val db = writableDatabase
   val query = "SELECT * FROM departamentos"
   val search = db.rawQuery(query, selectionArgs: null)
    var lista : ArrayList<dep> = ArrayList()
   if (search.moveToFirst()) {
            var Dpto = dep(
                search.getString( columnIndex: 1),
                search.getInt( columnIndex: 3),
                search.getString( columnIndex: 2),
                search.getInt( columnIndex: 0)
            lista.add(Dpto)
        } while (search.moveToNext())
    search.close()
    return lista
```

```
fun listarFun(id : Int) : ArrayList<funci>
   Log.d( tag: "CURA", msg: "QUERY FUNCIONARIOS")
   val db = vritableDatabase
   val search = db.rawQuery(query, selectionArgs: null)
   var lista : ArrayList<funci> = ArrayList()
        if (search.moveToFirst()) {
                var nfunci = funci(
                    search.getString( columnIndex: 1),
                    search.getInt( columnindex: 0),
                    search.getString(columnIndex: 2),
                    search.getInt( columnIndex: 3),
                    search.getInt( columnIndex: 4)
                lista.add(nfunci)
            } while (search.moveToNext())
   search.close()
   return lista
```



Auxiliar - Banco de Dados

```
fun inserirFun(nome: String, rg: String, idDpto: Int, foto: Int)
{
    val db: SQLiteDatabase = vritableDatabase
    val values = ContentValues()
    values.put("nome", nome)
    values.put("rg", rg)
    values.put("idpto", idDpto)
    values.put("foto", foto)

    db.insert( table: "funcionarios", nullColumnHack: null, values)
    db.close()
}
```

```
fun deletarFun( id : Int)
{
    val db = this.vritableDatabase

    db.delete( table: "funcionarios", whereClause: "idpto == + $id", whereArgs: null)

    db.close()
}
```

```
fun atualizarFun(id : Int, name : String, rg : String, img : Int)
{
  val db: SQLiteDatabase = vritableDatabase
  val values = ContentValues()
  values.put("nome", name)
  values.put("rg", rg)
  values.put("foto", img)

  db.update( table: "funcionarios", values, whereClause: "id == $id", whereArgs: null)
  db.close()
}
```

```
fun deletarFunId( id : Int)
{
    val db = this.vritableDatabase

    db.delete( table: "funcionarios", whereClause: "id == + $id", whereArgs: null)

    db.close()
}
```







Código:

https://github.com/Felpz13/CadastroFuncionarios



Aplicativo:

https://drive.google.com/file/d/10pDqN_qkJ_0lXQAnrrG89Ep0bRjT-pU5/view