1. DB Nhân viên

**public class** DBNhanVien **extends** SQLiteOpenHelper {  
 **public static** String *DB\_NAME* = **"nv.db"**;  
 **public static** String *TABLE\_NAME* = **"nv"**;  
 **public static** String *ID* = **"id"**;  
 **public static** String *ID\_PHONG* = **"id\_phong"**;  
 **public static** String *TEN* = **"ten"**;  
 **public static** String *NAM\_SINH* = **"nam\_sinh"**;  
 **public static** String *QUE* = **"que"**;  
 **public static** String *HOC\_VAN* = **"hoc\_van"**;  
 **public static** String *CHUYEN\_MON* = **"chuyen\_mon"**;  
 **public static** String *DAO\_TAO* = **"dao\_tao"**;  
 **public static** String *LAM\_VIEC* = **"lam\_viec"**;  
  
 **public** DBNhanVien(@Nullable Context context) {  
 **super**(context, *DB\_NAME*, **null**, 1);  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase sqLiteDatabase) {  
 String sql = (**"CREATE TABLE "** + *TABLE\_NAME* + **"("** + *ID* + **" INTEGER PRIMARY KEY,"** + *ID\_PHONG* + **" INTEGER,"** + *TEN* + **" TEXT,"** +  
 *NAM\_SINH* + **" TEXT,"** + *QUE* + **" TEXT,"** + *HOC\_VAN* + **" TEXT,"** + *CHUYEN\_MON* + **" TEXT,"** + *DAO\_TAO* + **" TEXT,"** +  
 *LAM\_VIEC* + **" TEXT"** + **")"**);  
 sqLiteDatabase.execSQL(sql);  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase sqLiteDatabase, **int** i, **int** i1) {  
 }  
  
 **public void** insert(**int** idP, String ten, String nam, String que, String hocVan, String chuyenMon, String daotao, String  
 lamViec) {  
 ContentValues contentValues = **new** ContentValues();  
 contentValues.put(*ID\_PHONG*, idP);  
 contentValues.put(*TEN*, ten);  
 contentValues.put(*NAM\_SINH*, nam);  
 contentValues.put(*QUE*, que);  
 contentValues.put(*HOC\_VAN*, hocVan);  
 contentValues.put(*CHUYEN\_MON*, chuyenMon);  
 contentValues.put(*DAO\_TAO*, daotao);  
 contentValues.put(*LAM\_VIEC*, lamViec);  
 SQLiteDatabase database = **this**.getWritableDatabase();  
 database.insert(*TABLE\_NAME*, **null**, contentValues);  
 database.close();  
  
 }  
  
 **public** ArrayList<NhanVien> getNV(**int** phong) {  
 ArrayList<NhanVien> arrayList = **new** ArrayList<>();  
 SQLiteDatabase database = **this**.getWritableDatabase();  
 Cursor cursor = database.rawQuery(**"SELECT \* FROM nv WHERE id\_phong = '"** + phong + **"'"**, **null**);  
 cursor.moveToFirst();  
 **while** (!cursor.isAfterLast()) {  
 NhanVien nhanVien = **new** NhanVien(cursor.getInt(cursor.getColumnIndex(*ID*)), cursor.getInt(cursor.getColumnIndex(*ID\_PHONG*)),  
 cursor.getString(cursor.getColumnIndex(*TEN*)), cursor.getString(cursor.getColumnIndex(*NAM\_SINH*)),  
 cursor.getString(cursor.getColumnIndex(*QUE*)), cursor.getString(cursor.getColumnIndex(*HOC\_VAN*)),  
 cursor.getString(cursor.getColumnIndex(*CHUYEN\_MON*)), cursor.getString(cursor.getColumnIndex(*DAO\_TAO*)),  
 cursor.getString(cursor.getColumnIndex(*LAM\_VIEC*)));  
 arrayList.add(nhanVien);  
 cursor.moveToNext();  
 }  
 **return** arrayList;  
 }  
  
 **public void** update(**int** id, String ten, String nam, String que, String hocVan, String chuyenMon, String daotao, String  
 lamViec) {  
 ContentValues contentValues = **new** ContentValues();  
 contentValues.put(*TEN*, ten);  
 contentValues.put(*NAM\_SINH*, nam);  
 contentValues.put(*QUE*, que);  
 contentValues.put(*HOC\_VAN*, hocVan);  
 contentValues.put(*CHUYEN\_MON*, chuyenMon);  
 contentValues.put(*DAO\_TAO*, daotao);  
 contentValues.put(*LAM\_VIEC*, lamViec);  
 SQLiteDatabase database = **this**.getWritableDatabase();  
 database.update(*TABLE\_NAME*, contentValues, **"id = '"** + id + **"'"**, **null**);  
 database.close();  
  
 }  
  
 **public void** delete(**int** id) {  
 SQLiteDatabase database = **this**.getWritableDatabase();  
 database.delete(*TABLE\_NAME*, **"id = '"** + id + **"'"**, **null**);  
 database.close();  
 }  
}

1. Nhân viên Adapter

**public class** NhanVienAdapter **extends** BaseAdapter {  
 ArrayList<NhanVien> **arrayList**;  
 Context **context**;  
  
 **public** NhanVienAdapter(ArrayList<NhanVien> arrayList, Context context) {  
 **this**.**arrayList** = arrayList;  
 **this**.**context** = context;  
 }  
  
 @Override  
 **public int** getCount() {  
 **return arrayList**.size();  
 }  
  
 @Override  
 **public** Object getItem(**int** i) {  
 **return arrayList**.get(i);  
 }  
  
 @Override  
 **public long** getItemId(**int** i) {  
 **return** i;  
 }  
  
 @Override  
 **public** View getView(**int** i, View view, ViewGroup viewGroup) {  
 LayoutInflater inflater = (LayoutInflater) **context**.getSystemService(Context.***LAYOUT\_INFLATER\_SERVICE***);  
 View view1 = inflater.inflate(R.layout.***nhan\_vien\_adapter***,**null**);  
 TextView name,nam\_sinh,que,hoc\_van,chuyen\_mon,dao\_tao,lam\_viec;  
 name = view1.findViewById(R.id.***name***);  
 nam\_sinh = view1.findViewById(R.id.***nam\_sinh***);  
 que = view1.findViewById(R.id.***que***);  
 hoc\_van = view1.findViewById(R.id.***hoc\_van***);  
 chuyen\_mon = view1.findViewById(R.id.***chuyen\_mon***);  
 dao\_tao = view1.findViewById(R.id.***dao\_tao***);  
 lam\_viec = view1.findViewById(R.id.***lam\_viec***);  
  
 name.setText(**"Ten : "** + **arrayList**.get(i).getTen());  
 nam\_sinh.setText(**"Nam sinh : "** + **arrayList**.get(i).getNamSinh());  
 que.setText(**"Que : "** + **arrayList**.get(i).getQue());  
 hoc\_van.setText(**"Hoc Van : "** + **arrayList**.get(i).getHocVan());  
 chuyen\_mon.setText(**"Chuyen Mon : "** + **arrayList**.get(i).getChuyenMon());  
 dao\_tao.setText(**"Dao Tao : "** + **arrayList**.get(i).getDaoTao());  
 lam\_viec.setText(**"Lam viec : "** + **arrayList**.get(i).getLamViec());  
 **return** view1;  
 }  
}

1. Phong activity

**public class** PhongActivity **extends** AppCompatActivity {  
 TextView **tvName**, **tvTrP**;  
 ListView **listView**;  
 ArrayList<NhanVien> **arrayList** = **new** ArrayList<>();  
 Button **btn**;  
 **int id**;  
 DBNhanVien **dbNhanVien** = **new** DBNhanVien(**this**);  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_phong***);  
 **final** Activity myActivity = **this**;  
 **tvName** = findViewById(R.id.***tv\_name***);  
 **tvTrP** = findViewById(R.id.***tv\_tr\_phong***);  
 **listView** = findViewById(R.id.***lv***);  
 **btn** = findViewById(R.id.***btn***);  
 String name = getIntent().getExtras().getString(**"name"**);  
 String tr\_phong = getIntent().getExtras().getString(**"tr\_phong"**);  
 **id** = getIntent().getExtras().getInt(**"id"**);  
 **tvName**.setText(name);  
 **tvTrP**.setText(**"Truong phong : "** + tr\_phong);  
  
 **arrayList** = **dbNhanVien**.getNV(**id**);  
 NhanVienAdapter adapter = **new** NhanVienAdapter(**arrayList**, **this**);  
 **listView**.setAdapter(adapter);  
  
 **listView**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  
 @Override  
 **public void** onItemClick(AdapterView<?> adapterView, View view, **final int** i, **long** l) {  
 **final** Dialog dialog = **new** Dialog(PhongActivity.**this**);  
 dialog.getWindow().setBackgroundDrawable(**new** ColorDrawable(0));  
 dialog.setContentView(R.layout.***dialog***);  
  
 TextView sua = dialog.findViewById(R.id.***sua***);  
 TextView chuyen = dialog.findViewById(R.id.***chuyen***);  
 TextView nghi = dialog.findViewById(R.id.***nghi***);  
 Window window = dialog.getWindow();  
 window.setLayout(LinearLayout.LayoutParams.***MATCH\_PARENT***, LinearLayout.LayoutParams.***WRAP\_CONTENT***);  
 dialog.show();  
  
 sua.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Intent intent = **new** Intent(PhongActivity.**this**, ThemNhanvienActivity.**class**);  
 intent.putExtra(**"them"**, **false**);  
 intent.putExtra(**"id"**, **id**);  
 intent.putExtra(**"object"**, **arrayList**.get(i));  
 myActivity.startActivity(intent);  
 dialog.dismiss();  
 }  
 });  
 nghi.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 **dbNhanVien**.delete(**arrayList**.get(i).getId());  
 dialog.dismiss();  
 }  
 });  
 }  
 });  
  
 **btn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Intent intent = **new** Intent(PhongActivity.**this**, ThemNhanvienActivity.**class**);  
 intent.putExtra(**"them"**, **true**);  
 intent.putExtra(**"id"**, **id**);  
 startActivity(intent);  
 }  
 });  
 }  
}

1. Thêm nv

**public class** PhongActivity **extends** AppCompatActivity {  
 TextView **tvName**, **tvTrP**;  
 ListView **listView**;  
 ArrayList<NhanVien> **arrayList** = **new** ArrayList<>();  
 Button **btn**;  
 **int id**;  
 DBNhanVien **dbNhanVien** = **new** DBNhanVien(**this**);  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_phong***);  
 **final** Activity myActivity = **this**;  
 **tvName** = findViewById(R.id.***tv\_name***);  
 **tvTrP** = findViewById(R.id.***tv\_tr\_phong***);  
 **listView** = findViewById(R.id.***lv***);  
 **btn** = findViewById(R.id.***btn***);  
 String name = getIntent().getExtras().getString(**"name"**);  
 String tr\_phong = getIntent().getExtras().getString(**"tr\_phong"**);  
 **id** = getIntent().getExtras().getInt(**"id"**);  
 **tvName**.setText(name);  
 **tvTrP**.setText(**"Truong phong : "** + tr\_phong);  
  
 **arrayList** = **dbNhanVien**.getNV(**id**);  
 NhanVienAdapter adapter = **new** NhanVienAdapter(**arrayList**, **this**);  
 **listView**.setAdapter(adapter);  
  
 **listView**.setOnItemClickListener(**new** AdapterView.OnItemClickListener() {  
 @Override  
 **public void** onItemClick(AdapterView<?> adapterView, View view, **final int** i, **long** l) {  
 **final** Dialog dialog = **new** Dialog(PhongActivity.**this**);  
 dialog.getWindow().setBackgroundDrawable(**new** ColorDrawable(0));  
 dialog.setContentView(R.layout.***dialog***);  
  
 TextView sua = dialog.findViewById(R.id.***sua***);  
 TextView chuyen = dialog.findViewById(R.id.***chuyen***);  
 TextView nghi = dialog.findViewById(R.id.***nghi***);  
 Window window = dialog.getWindow();  
 window.setLayout(LinearLayout.LayoutParams.***MATCH\_PARENT***, LinearLayout.LayoutParams.***WRAP\_CONTENT***);  
 dialog.show();  
  
 sua.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Intent intent = **new** Intent(PhongActivity.**this**, ThemNhanvienActivity.**class**);  
 intent.putExtra(**"them"**, **false**);  
 intent.putExtra(**"id"**, **id**);  
 intent.putExtra(**"object"**, **arrayList**.get(i));  
 myActivity.startActivity(intent);  
 dialog.dismiss();  
 }  
 });  
 nghi.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 **dbNhanVien**.delete(**arrayList**.get(i).getId());  
 dialog.dismiss();  
 }  
 });  
 }  
 });  
  
 **btn**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View view) {  
 Intent intent = **new** Intent(PhongActivity.**this**, ThemNhanvienActivity.**class**);  
 intent.putExtra(**"them"**, **true**);  
 intent.putExtra(**"id"**, **id**);  
 startActivity(intent);  
 }  
 });  
 }  
}

1. Spinner

**spinner** = findViewById(R.id.***spinner***);  
String[] strings = {**"A"**, **"B"**, **"C"**};  
ArrayAdapter<String> adapter = **new** ArrayAdapter<String>(**this**, android.R.layout.***simple\_spinner\_item***, strings);  
**spinner**.setAdapter(adapter);  
  
  
**btnDN**.setOnClickListener(**new** View.OnClickListener() {  
 @Override  
 **public void** onClick(View v) {  
 String username = **etUsername**.getText().toString();  
 String password = **etPassword**.getText().toString();  
 User user = databaseHelper.getByUsername(username);  
 **if** (password.equals(user.getPasswword())) {  
 Toast.*makeText*(MainActivity.**this**, **"Thành công"**, Toast.***LENGTH\_SHORT***).show();  
 String text = **spinner**.getSelectedItem().toString();  
 Toast.*makeText*(MainActivity.**this**, text, Toast.***LENGTH\_SHORT***).show();  
 } **else** {  
 Toast.*makeText*(MainActivity.**this**, **"Sai thông tin"**, Toast.***LENGTH\_SHORT***).show();  
 }  
 }  
});