**package** com.example.ontap;  
  
**import** android.app.Activity;  
**import** android.os.Bundle;  
**import** android.view.View;  
**import** android.widget.AdapterView;  
**import** android.widget.ArrayAdapter;  
**import** android.widget.EditText;  
**import** android.widget.Spinner;  
**import** android.widget.TextView;  
**import** android.widget.Toast;  
  
**import** androidx.annotation.Nullable;  
  
**import** com.example.ontap.model.Employee;  
  
**import** java.util.Date;  
  
**public class** AddActivity **extends** Activity {  
  
 **private** EmployeeDAO **empDao** = **new** EmployeeDAO(**this**);  
  
 @Override  
 **protected void** onCreate(@Nullable Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***add\_employee***);  
  
 findViewById(R.id.***saveBtn***).setOnClickListener(a -> {  
 Employee employee = **new** Employee();  
 employee.setBirthday(**new** Date());  
 employee.setName(((EditText) findViewById(R.id.***nameInp***)).getText().toString());  
 **empDao**.create(employee);  
 Toast.*makeText*(**this**, **"Created employee!"**, Toast.***LENGTH\_SHORT***).show();  
 **this**.finish();  
 });  
  
 Spinner spinner = findViewById(R.id.***spinner***);  
  
 String[] arr = {  
 **"Hàng điện tử"**,  
 **"Hàng hóa chất"**,  
 **"Hàng gia dụng"**};  
  
 ArrayAdapter<String> adapter = **new** ArrayAdapter<>(**this**, android.R.layout.***simple\_spinner\_item***, arr);  
 adapter.setDropDownViewResource(android.R.layout.***simple\_list\_item\_single\_choice***);  
 spinner.setAdapter(adapter);  
 spinner.setOnItemSelectedListener(**new** AdapterView.OnItemSelectedListener() {  
 @Override  
 **public void** onItemSelected(AdapterView<?> parent, View view, **int** position, **long** id) {  
 ((TextView) findViewById(R.id.***textView3***)).setText(arr[position]);  
 }  
  
 @Override  
 **public void** onNothingSelected(AdapterView<?> parent) {  
 }  
 });  
 }  
}

**package** com.example.ontap;  
  
**import** android.content.Context;  
**import** android.view.LayoutInflater;  
**import** android.view.View;  
**import** android.view.ViewGroup;  
**import** android.widget.BaseAdapter;  
**import** android.widget.TextView;  
  
**import** com.example.ontap.model.Employee;  
  
**import** java.util.List;  
  
**public class** CustomListAdapter **extends** BaseAdapter {  
 **private** List<Employee> **listData**;  
 **private** LayoutInflater **layoutInflater**;  
 **private** Context **context**;  
  
 **public** CustomListAdapter(List<Employee> listData, Context context) {  
 **this**.**listData** = listData;  
 **this**.**context** = context;  
 **layoutInflater** = LayoutInflater.*from*(context);  
 }  
  
 @Override  
 **public int** getCount() {  
 **return listData**.size();  
 }  
  
 @Override  
 **public** Object getItem(**int** position) {  
 **return listData**.get(position);  
 }  
  
 @Override  
 **public long** getItemId(**int** position) {  
 **return** position;  
 }  
  
 **static class** ViewHolder {  
 TextView **name**;  
 TextView **birthday**;  
 }  
  
 **public** View getView(**int** position, View convertView, ViewGroup parent) {  
 ViewHolder holder;  
 **if** (convertView == **null**) {  
 convertView = **layoutInflater**.inflate(R.layout.***list\_view***, **null**);  
 holder = **new** ViewHolder();  
 holder.**name** = convertView.findViewById(R.id.***nameTxt***);  
 holder.**birthday** = convertView.findViewById(R.id.***birthTxt***);  
 convertView.setTag(holder);  
 } **else** {  
 holder = (ViewHolder) convertView.getTag();  
 }  
  
 Employee emp = **this**.**listData**.get(position);  
 holder.**name**.setText(emp.getName());  
 holder.**birthday**.setText(**"Birthday: "** + emp.getBirthday().toString());  
  
 **return** convertView;  
 }  
}

**package** com.example.ontap;  
  
**import** android.content.ContentValues;  
**import** android.content.Context;  
**import** android.database.Cursor;  
**import** android.database.sqlite.SQLiteDatabase;  
**import** android.database.sqlite.SQLiteOpenHelper;  
  
**import** androidx.annotation.Nullable;  
  
**import** com.example.ontap.model.Employee;  
  
**import** java.util.ArrayList;  
**import** java.util.Date;  
**import** java.util.List;  
  
**public class** EmployeeDAO **extends** SQLiteOpenHelper {  
  
 **public static final** String ***DB\_NAME*** = **"qlnv"**;  
  
 **public** EmployeeDAO(@Nullable Context context) {  
 **super**(context, ***DB\_NAME***, **null**, 1);  
 }  
  
 @Override  
 **public void** onCreate(SQLiteDatabase db) {  
 String sql = **"CREATE TABLE emp (name TEXT, birthday TEXT)"**;  
 db.execSQL(sql);  
 }  
  
 @Override  
 **public void** onUpgrade(SQLiteDatabase db, **int** oldVersion, **int** newVersion) {  
 }  
  
 **public void** create(Employee employee) {  
 ContentValues values = **new** ContentValues();  
 values.put(**"name"**, employee.getName());  
 values.put(**"birthday"**, employee.getBirthday().toString());  
 SQLiteDatabase db = **this**.getWritableDatabase();  
 db.insert(**"emp"**, **null**, values);  
 db.close();  
 }  
  
 **public** List<Employee> getAll() {  
 List<Employee> employees = **new** ArrayList<>();  
 SQLiteDatabase db = **this**.getReadableDatabase();  
 Cursor cursor = db.rawQuery(**"SELECT \* FROM emp"**, **null**);  
 cursor.moveToFirst();  
 **while** (!cursor.isAfterLast()) {  
 Employee employee = **new** Employee(cursor.getString(cursor.getColumnIndex(**"name"**)), **new** Date(cursor.getString(cursor.getColumnIndex(**"birthday"**))));  
 employees.add(employee);  
 cursor.moveToNext();  
 }  
 **return** employees;  
 }  
}

**package** com.example.ontap;  
  
**import** android.content.Intent;  
**import** android.os.Bundle;  
**import** android.widget.Button;  
**import** android.widget.ListView;  
**import** android.widget.Toast;  
  
**import** androidx.appcompat.app.AppCompatActivity;  
  
**import** com.example.ontap.model.Employee;  
  
**import** java.util.ArrayList;  
**import** java.util.Date;  
**import** java.util.List;  
  
**public class** MainActivity **extends** AppCompatActivity {  
  
 **private** EmployeeDAO **empDao** = **new** EmployeeDAO(**this**);  
 **private** List<Employee> **employees**;  
 **private** ListView **listView**;  
  
 @Override  
 **protected void** onCreate(Bundle savedInstanceState) {  
 **super**.onCreate(savedInstanceState);  
 setContentView(R.layout.***activity\_main***);  
 **listView** = findViewById(R.id.***empListView***);  
  
 **employees** = **empDao**.getAll();  
 **listView**.setAdapter(**new** CustomListAdapter(**employees**, **this**));  
  
 Button addBtn = findViewById(R.id.***addBtn***);  
 addBtn.setOnClickListener((a) -> {  
 Intent intent = **new** Intent(**this**, AddActivity.**class**);  
 intent.putExtra(**"key"**, **"value"**);  
 startActivityForResult(intent, 1);  
 });  
 }  
  
 @Override  
 **protected void** onActivityResult(**int** requestCode, **int** resultCode, Intent data) {  
 **super**.onActivityResult(requestCode, resultCode, data);  
 **employees** = **empDao**.getAll();  
 **listView**.setAdapter(**new** CustomListAdapter(**employees**, **this**));  
 }  
}

**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();  
}