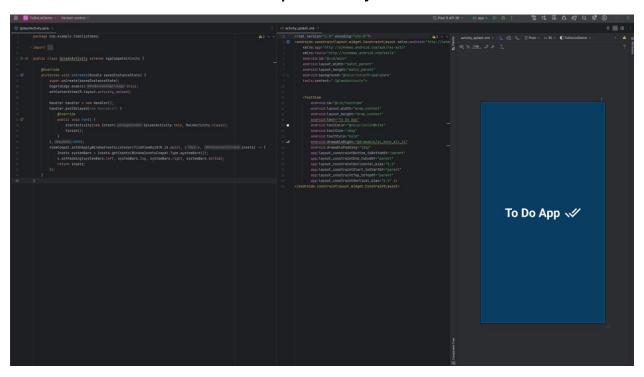
Raina Narayan

Screenshots of code:

Splash Activity

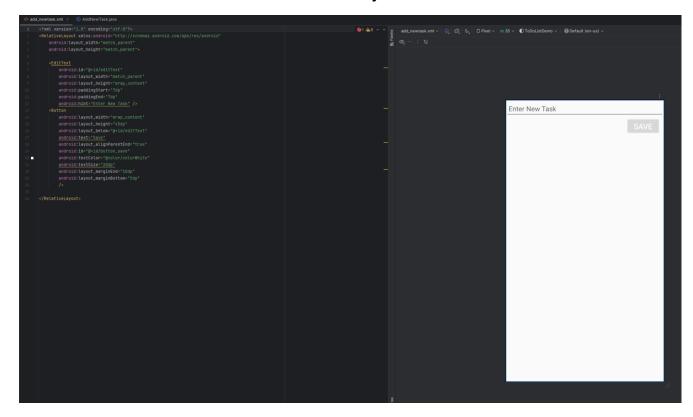


Add New Task Activity

```
AddNewTask.java
add_newtask.xml
     package com.example.todolistdemo;
public class AddNewTask extends BottomSheetDialogFragment {
         public void onViewCreated(@NonNull View view, @Nullable Bundle savedInstanceState) {
            myDB = new DataBaseHelper(getActivity());
            boolean <u>isUpdate</u> = false;
                <u>isUpdate</u> = true;
                String task = bundle.getString( key: "task");
                 if(task.length() > 0 ){
                     mSaveButton.setEnabled(false);
```

```
 add_newtask.xml
                     AddNewTask.java ×
       public class AddNewTask extends BottomSheetDialogFragment {
           public void onViewCreated(@NonNull View view, @Nullable Bundle savedInstanceState) {
               mEditText.addTextChangedListener(new TextWatcher() {
                   @Override
                   public void beforeTextChanged(CharSequence s, int start, int count, int after) {
                   public void onTextChanged(CharSequence s, int start, int before, int count) {
                        if(s.toString().equals("")){
                           mSaveButton.setEnabled(false);
                           mSaveButton.setBackgroundColor(Color.GRAY);
                       } else{
                           mSaveButton.setEnabled(true);
                           \verb|mSaveButton.setBackgroundColor(getResources().getColor(R.color.colorPrimary))|;\\
                   @Override
                   public void afterTextChanged(Editable s) {
               boolean finalIsUpdate = isUpdate;
               mSaveButton.setOnClickListener(new View.OnClickListener() {
                   public void onClick(View v) {
                        String text = mEditText.getText().toString();
                           myDB.updateTask(bundle.getInt( key: "id"),text);
                           ToDoModel item = new ToDoModel();
                           item.setStatus(0);
                           myDB.insertTask(item);
           public void onDismiss(@NonNull DialogInterface dialog) {
               super.onDismiss(dialog);
               Activity activity = getActivity();
               if(activity instanceof OnDialogCloseListener){
                    ((OnDialogCloseListener) activity).onDialogClose(dialog);
```

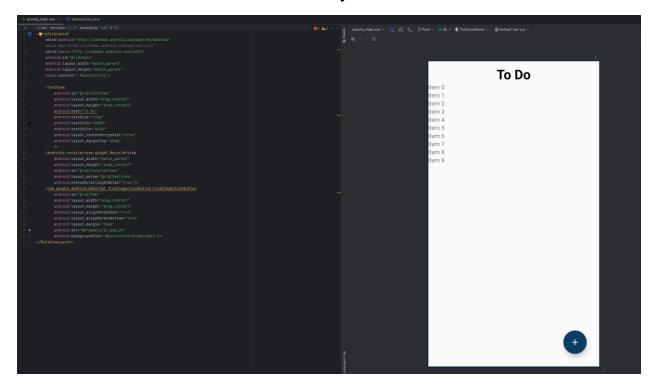
Add New Task Layout



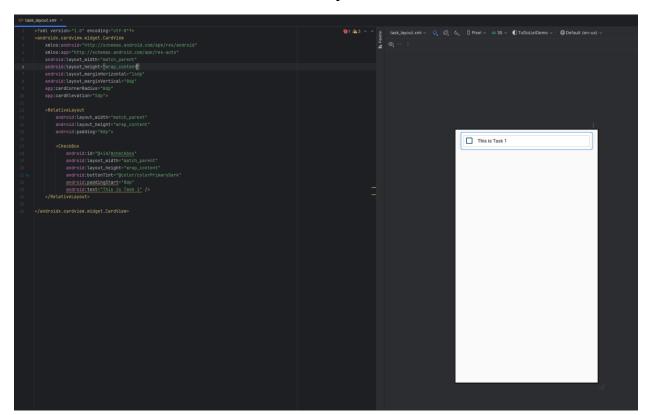
Main Activity

```
■ ToDoListDemo ∨ Version control ∨
                     MainActivity.java ×
             private RecyclerView mRecyclerView;
             private FloatingActionButton fab;
                  EdgeToEdge.enable( $this$enableEdgeToEdge: this);
                 fab = findViewById(R.id.fab);
                 myDB = new DataBaseHelper( context: MainActivity.this);
                 mList = new ArrayList<>();
                 adapter = new ToDoAdapter(myDB, activity: MainActivity.this);
                 mRecyclerView.setLayoutManager(new LinearLayoutManager(context: this));
                 mRecyclerView.setAdapter(adapter);
                     public void onClick(View v) {
                             AddNewTask.newInstance().show(getSupportFragmentManager(),AddNewTask.TAG);
                  ItemTouchHelper itemTouchHelper = new ItemTouchHelper(new RecyclerViewTouchHelper(adapter));
                  itemTouchHelper.attachToRecyclerView(mRecyclerView);
                  ViewCompat.setOnApplyWindowInsetsListener(findViewById(R.id.main), ( View v, WindowInsetsCompat insets) -> {
                     Insets systemBars = insets.getInsets(WindowInsetsCompat.Type.systemBars());
                     v.setPadding(systemBars.left, systemBars.top, systemBars.right, systemBars.bottom);
                  Collections.reverse(mList);
                  adapter.notifyDataSetChanged();
```

Main Layout



Task Layout



Recycler View Touch Helper

```
| Continguations | Continguation | Continguati
```

On Dialog Close Listener

Database Helper

```
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| Passage private settic final String TABLE_MAME = "TODOLISIASE";
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```

To Do Model

```
© ToDoModel.java ×
       package com.example.todolistdemo.Model;
      public class ToDoModel {
          private String task;
          public int getId() {
          public String getTask() {
          public void setTask(String task) {
```

To Do Adapter

```
这 ToDoAdapter.java 🛛 🗵
      package com.example.todolistdemo.Adapter;
      public class ToDoAdapter extends RecyclerView.Adapter<ToDoAdapter.MyViewHolder> {
          private List<ToDoModel> mList;
         private MainActivity activity;
          public ToDoAdapter (DataBaseHelper myDB, MainActivity activity){
          public MyViewHolder onCreateViewHolder(@NonNull ViewGroup parent, int viewType) {
              View v = LayoutInflater.from(parent.getContext()).inflate(R.layout.task_layout, parent, attachToRoot false);
              return new MyViewHolder(v);
          public void onBindViewHolder(@NonNull MyViewHolder holder, int position) {
              final ToDoModel item = mList.get(position);
              holder.mCheckBox.setText(item.getTask());
             holder.mCheckBox.setChecked(toBoolean(item.getStatus()));
              holder.mCheckBox.setOnCheckedChangeListener(new CompoundButton.OnCheckedChangeListener() {
                  public void onCheckedChanged(CompoundButton buttonView, boolean isChecked) {
                          myDB.updateStatus(<u>item</u>.getId(), status: 1);
                          myDB.updateStatus(<u>item</u>.getId(), status: 0);
          public void setTasks(List<ToDoModel>mList){
             ToDoModel item = mList.get(position);
```

```
public void editItem(int position){
    ToDoModel item = mList.get(position);
    Bundle bundle = new Bundle();
    bundle.putInt("id",item.getId());
   bundle.putString("task", item.getTask());
    AddNewTask task = new AddNewTask();
    task.setArguments(bundle);
    task.show(activity.getSupportFragmentManager(),task.getTag());
@Override
public int getItemCount() {
   return mList.size();
public static class MyViewHolder extends RecyclerView.ViewHolder{
    CheckBox mCheckBox;
    public MyViewHolder(@NonNull View itemView) {
        super(itemView);
       mCheckBox = itemView.findViewById(R.id.mcheckbox);
```

Colors

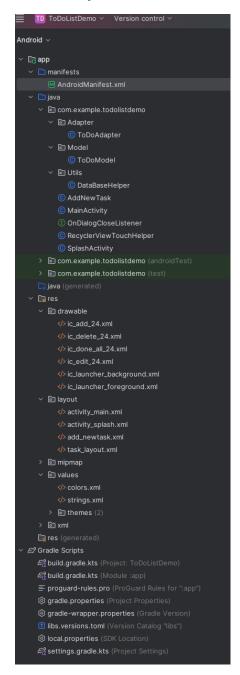
Build Gradle (Model: app)

```
© build.gradle.kts (:app)
             defaultConfig {
                  versionName = "1.0"
                  sourceCompatibility = JavaVersion.VERSION_11
targetCompatibility = JavaVersion.VERSION_11
         androidTestImplementation(libs.espresso.core)
```

Android Manifest

```
🕰 build.gradle.kts (:app) 💉 🛮 M AndroidManifest.xml 🗵
       <?xml version="1.0" encoding="utf-8"?>
       <manifest xmlns:android="http://schemas.android.com/apk/res/android"
           xmlns:tools="http://schemas.android.com/tools">
           <application
               android:allowBackup="true"
               android:dataExtractionRules="@xml/data_extraction_rules"
               android:fullBackupContent="@xml/backup_rules"
               android:icon="@mipmap/ic_launcher"
9 🚗
               android:label="ToDoListDemo"
               android:roundIcon="@mipmap/ic_launcher_round"
               android:supportsRtl="true"
               android:theme="@style/Theme.ToDoListDemo"
               tools:targetApi="31">
               <activity
                   android:name=".SplashActivity"
                   android:exported="true">
               <intent-filter>
                   <action android:name="android.intent.action.MAIN" />
                   <category android:name="android.intent.category.LAUNCHER" />
               </intent-filter>
               </activity>
               <activity
                   android:name=".MainActivity"
                   android:exported="true">
               </activity>
           </application>
       </manifest>
```

Project Structure



Screenshots of output:

