# Android Development



Preferences

**Shared Preferences** 

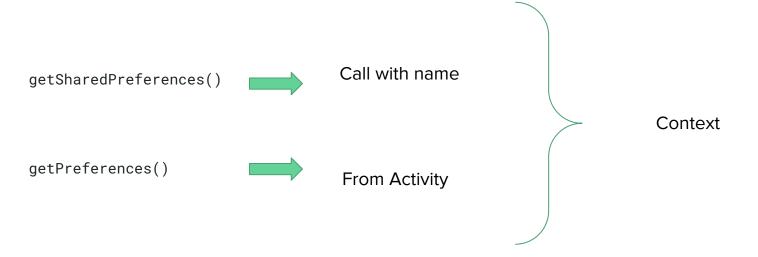
**Data Store** 

- DB
  - SQLITE
  - Room Database (ORM )

Orm

Realm

#### **Shared Preferences**



**Shared Preferences** 

Key - value

Read - context

Write - edit

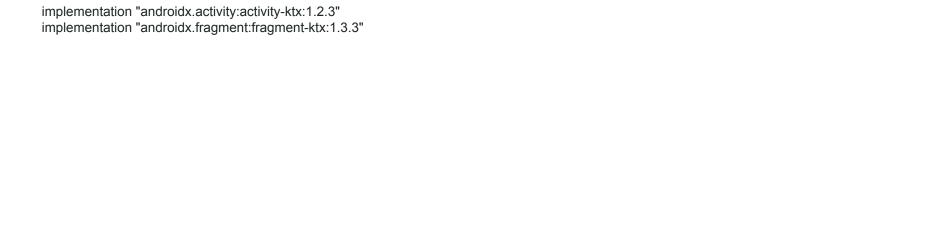
Save - apply - commit

```
val room version = "2.7.0"
Room
              implementation("androidx.room:room-runtime:$room_version")
              // If this project uses any Kotlin source, use Kotlin Symbol Processing (KSP)
              // See Add the KSP plugin to your project
              ksp("androidx.room:room-compiler:$room_version")
              // If this project only uses Java source, use the Java annotationProcessor
              // No additional plugins are necessary
              annotationProcessor("androidx.room:room-compiler:$room_version")
              // optional - Kotlin Extensions and Coroutines support for Room
              implementation("androidx.room:room-ktx:$room_version")
              // optional - RxJava2 support for Room
              implementation("androidx.room:room-rxjava2:$room_version")
              // optional - RxJava3 support for Room
              implementation("androidx.room:room-rxjava3:$room_version")
              // optional - Guava support for Room, including Optional and ListenableFuture
              implementation("androidx.room:room-quava:$room_version")
```

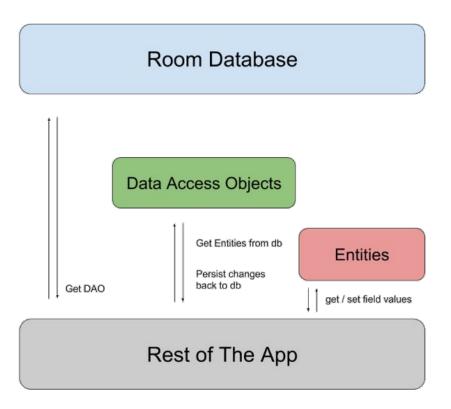
$\verb implementation  $	$"and roid \verb x.lifecycle:lifecycle-viewmodel-ktx:  \verb srootProject.lifecycle  Version   \verb state                                      $
${\tt implementation}$	"and roid x. life cycle: life cycle-live data-ktx: \$root Project. life cycle Version"
${\tt implementation}$	"and roid x. life cycle: life cycle-common-java 8: \$root Project. life cycle Version"

lifecycleVersion = '2.3.1'

// Lifecycle components



### Data Persistence - Room



Entity @Entity

Dao @Dao

## Project

Create a functional app that uses

- Theme and styles
- Recyclerview
- Navigation component with fragments
- Bundle (send and receive data with fragments)
- API requests (Retrofit) <a href="https://github.com/public-apis/public-apis">https://github.com/public-apis/public-apis</a> or any other
- At least one runtime permission
- Data persistence (SharedPreferences and Room)

Send the project compressed to <u>alvaro.saavedra@jalasoft.com</u> or teams

Due Date: 28-04-2025 23:59pm