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Modularization

The goal is to separate functionality into independent, interchangeable modules.

- Faster build times.
- Fine-grained dependency control.
- Improve reusability across other apps.
- Improves the ownership & the quality of the codebase.
- Stricter boundaries when compared to packages.
- Encourages Open Source of the newly created libraries.
- Makes Instant Apps & Dynamic Features possible (improving discoverability).

Feature Modules: Keeping it Clean.

- Modules are user-facing functionality
- We don't have package names like activities/fragments/adapters
 - Each module should contain its own presentation, domain, data & data sources layers (if they require it).

Base Modules: Avoid a single Base Module.

- Stay away from a single Base/Core Module. Don't be afraid of splitting the base functionality of your app so feature modules can pick which base functionality they need.
- All of these base modules will never be user-facing and will only be used by 1 or multiple Modules.
- Presentation contains mostly View/Keyboard extension functions & some goodies for ViewModel like the SingleLiveEvent from google samples.

Gradle:

• apply from: \$rootDir/common-android-library.gradle we can ended up with a concise and small mymodule.gradle

Dynamic Feature Module

- No need multiple APKs
- Reduce size of APK that user needs to download
- Provide functionality only needed
- Instant delivery
- Android App Bundle
 - Base Module *1: com.android.application
 - Library Module *n: com.android.library
 - Dynamic Feature Module *n: com.android.dynamic-feature
- Play Core Library

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- Required by Base Module.
- Used to request download Dynamic Feature Module during App runtime
- Split APKs service (Google Play)
 - .aab --> Base APK + Dynamic feature APKs + Configuration APKs
- Dynamic Delivery service (Google Play)
 - Deliver APKs based on user device information