

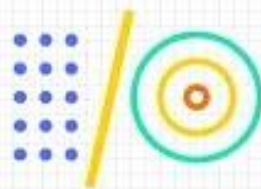
Modular Android Applications

Thuy

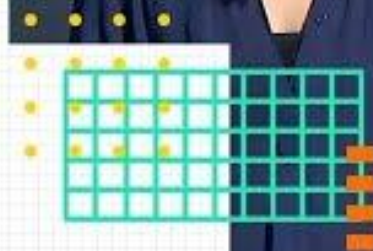
Growth Session #16 - July 12-13 2018

Modular, Instant, Dynamic

- For the past 10 years, we have developed applications by adding everything under the `:app` module
- The future of Android application development is:
 - Modularity via App Bundle enables you to deliver leaner, fresher with optional features loaded on-demand
 - Instant App
 - Dynamic Feature



Apps on Android and Google Play



Modular, Instant, Dynamic



Apply these new features to the Android Braive application:

1. Config App Bundle
2. Add Dynamic Feature
3. Add empty Instant app

App Bundle Build

- Simple Setup
 - update build tools and Android Studio
 - upload sign to playstore
- No refactor required
- Can select which module to include upon build

i APK size: 5.6 MB, Download Size: 5.4 MB	
File	Raw File Size
▶ base	5.3 MB
▶ META-INF	75 KB
▶ dynamic_feature	7.8 KB
▶ dynamic_feature2	1.1 KB

Dynamic Feature

- Support for App bundle is a prerequisite
- Separates module to allow user to download modules on-demand

- Setup
 - Update dependencies, disable shrinks
 - add others depend module, update proper build variant
- Requires `com.google.android.play.core` to communicate with play store:
 - Communicate with others module such as sharing data, dependencies
 - Available callbacks
 - install/uninstall
 - check for installed modules
 - cancel install process

References

- <https://www.youtube.com/watch?v=0raqVydJmNE>
- <https://github.com/googlesamples/android-dynamic-features>
- <https://proandroiddev.com/dynamic-feature-module-android-ondemand-module-android-app-bundle-ea0d872b32d>
- <https://www.youtube.com/watch?v=bViNOUeFuiQ>

Thanks!

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