

MOBILE: COMMON MISTAKES & SOLUTIONS

AGENDA

- » iOS: No No 😐
- » iOS: Solutions 😊
- » Android: No No 😐
- » Android: Solutions 😊
- » Android Architecture Components
- » Worth Reading
- » Homework

IOS: NO NO 🙄

- » MVC aka Massive View Controller?
- » Base Bean anti-pattern (BaseViewController)
- » Heavy storyboards
- » ...

IOS: SOLUTIONS 🤪

- » Use MVVM to avoid Massive View Controllers
- » Extract logic from ViewController to Util/Helper classes (if not UI related)
- » Use extensions instead of Inheritance
- » Use Coordinators
- » 1 VC per storyboard
- » Protocol Oriented Programming WWDC, Realm

ANDROID: NO NO 🙄

- » BaseActivity
- » getActivity() with class cast directly in fragments :)
- » EventBus for sending data between Activities/Fragments
- » Sending data to newInstance() without saving it to Fragment's arguments
- » Updating UI from success/failure callbacks when app is not active

ANDROID: SOLUTIONS 🤪

- » Use Lifecycle callbacks solution
- » Use annotations, e.g. @ActivityLayout
- » Use Listeners and implementations, class cast in onAttach
- » Always save Parcelable objects to fragment's arguments
- » EventBus can be used, but NOT overused
- » Use MVVM and LiveData updates

ANDROID ARCHITECTURE COMPONENTS

COMPONENTS

- » Room
- » ViewModel
- » LiveData
- » Lifecycle
- » ...
- » Source



IDEAS:

- » MessageHelper should be standalone class
- » Logger should be standalone class
- » Network layer structure? Normally we should support switching between platforms
- » Extensions instead of subclasses (Swift, Kotlin)
- » Localization handling (iOS)?
- » Struct for Model classes (Swift)

WORTH READING:

- » Fantastic iOS Architecture
- » Fantastic Android Architecture
- » iOS Architecture Patterns
- » VIPER
- » SOLID principles

HOMEWORK

» Task: show github public repos for the user



» iOS: Implement MVVM in basic UIViewController with UITableView + Network layer

» Android: Implement MVVM based on Android Architecture Components