Globant we are ready

COORDINATOR Pattern

THE BASICS





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Problem Solver

overview





Coordinator the saver

The best way to introduce Coordinator is probably to introduce the problem it aims to solve.

- Big ViewControllers(too many responsibilities)
- Improve reuse of views
- Implementation(navigation stack, data injection)







Coordinator History

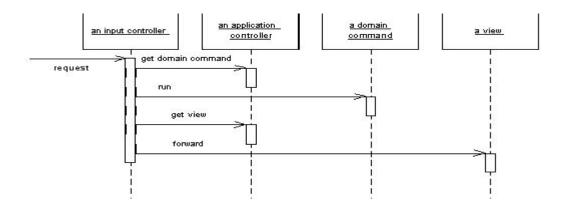
overview





Coordinator history

Martin Fowler in his book "Patterns of Enterprise Application Architecture" called this pattern Application Controller. (2002)



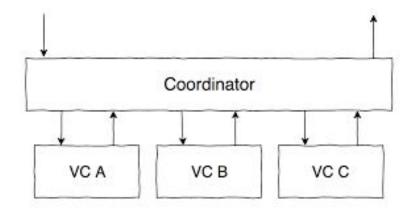






Coordinator history

But Soroush Khanlou is considered as its first popularizer in the iOS environment in his speech at the NSSpain conference in 2015.









Coordinator What is it

overview





Coordinator

Coordinator is a simple but yet powerful protocol.

```
10
11 protocol Coordinator {
12 func start()
13 |
14 }
```







App and Main Coordinator

overview





Coordinator

App Coordinator

```
class AppCoordinator: Coordinator {
    var window: UIWindow?

init(window: UIWindow?) {
    self.window = window
}

func start() {
    let navigationController = UINavigationController()
    window?.rootViewController = navigationController
    window?.makeKeyAndVisible()

let mainCoordinator = MainCoordinator(controller: navigationController)
    coordinate(to: mainCoordinator)

}
```



Main Coordinator

```
import Foundation
import UIKit
protocol StartFlow: AnyObject {
   func goToTabMaincontroller()
   func goToRedViewController()
   func goToBlueViewController()
   func goToYellowViewController()
   func backToRoot()
class MainCoordinator: Coordinator, StartFlow {
   let Controller: UINavigationController
   init(controller: UINavigationController) {
        self.Controller = controller
   func start() {
       Controller.dismiss(animated: false) {
            self.goToTabMaincontroller()
   // MARK: - Flow Methods
   func goToTabMaincontroller() {
       let vc = MainController()
       vc.coordinator = self
       Controller.setViewControllers([vc], animated: false)
```





Tips and Links

overview





Coordinator

Tips and Links

Medium coordinator pattern

Hacking with Swift coordinator pattern

Hacking with Swift advance coordinator pattern

Presenting Coordinators - Soroush Khanlou





