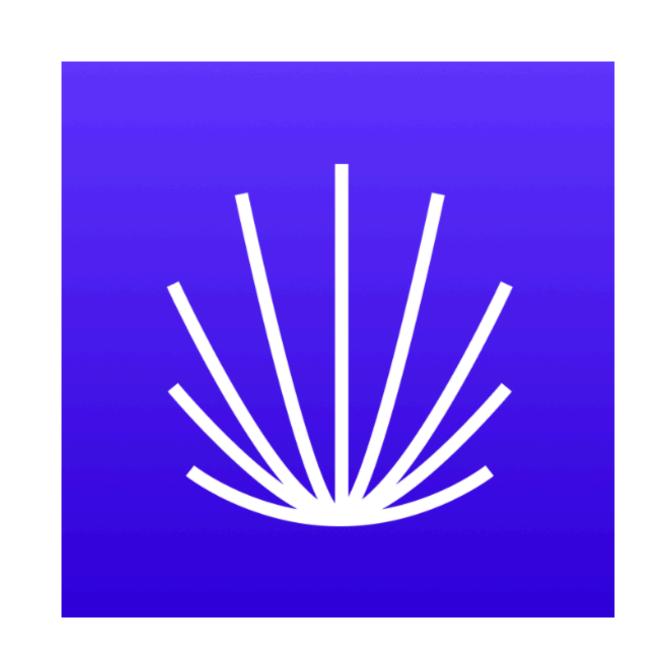
Xcode프로젝트 Tuist 도입하기

Tuist란?

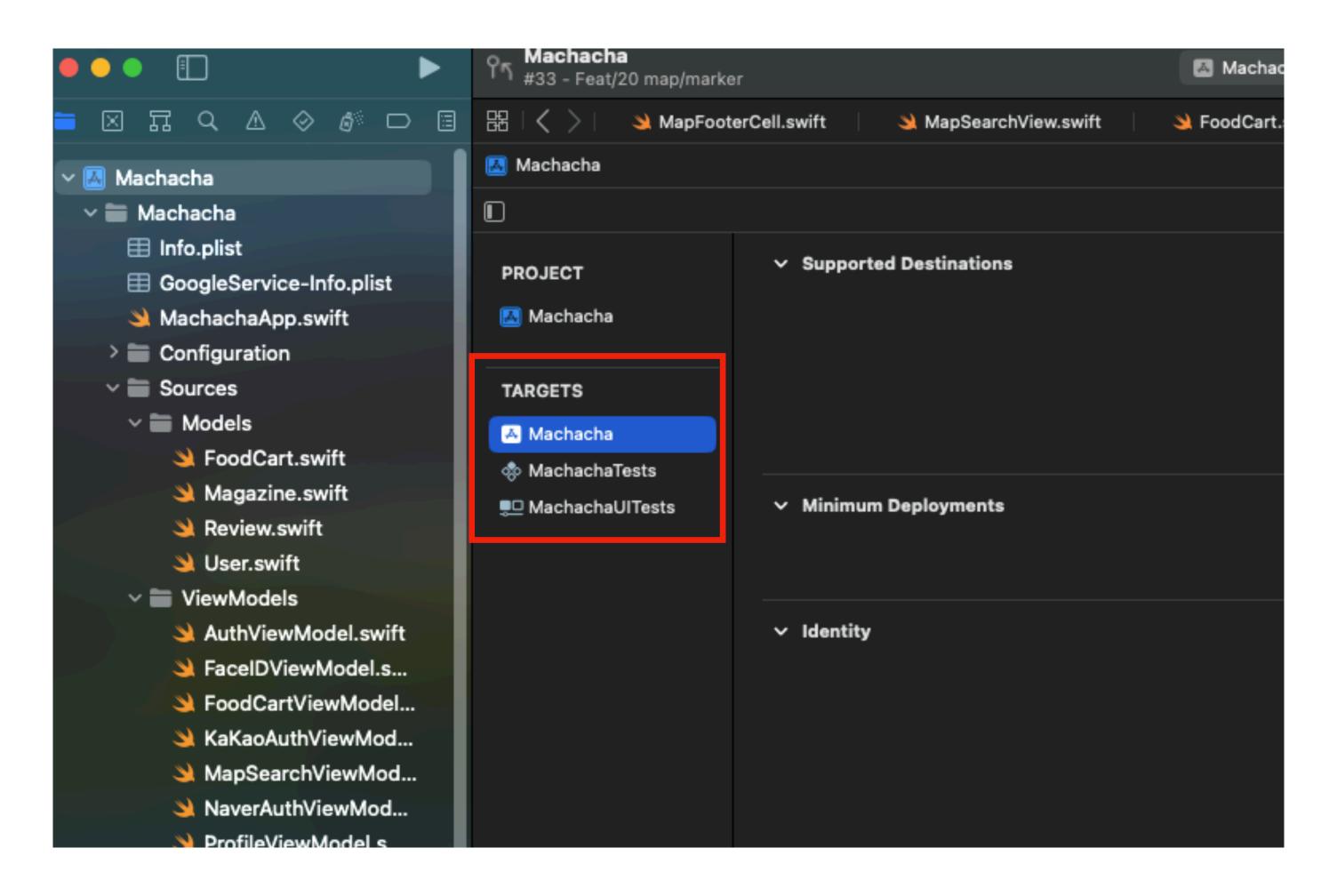


Xcode 프로젝트의 생성, 유지 관리 및 상호 작용을 도와주는 CLI 도구

Tuist를 사용하기 전에..

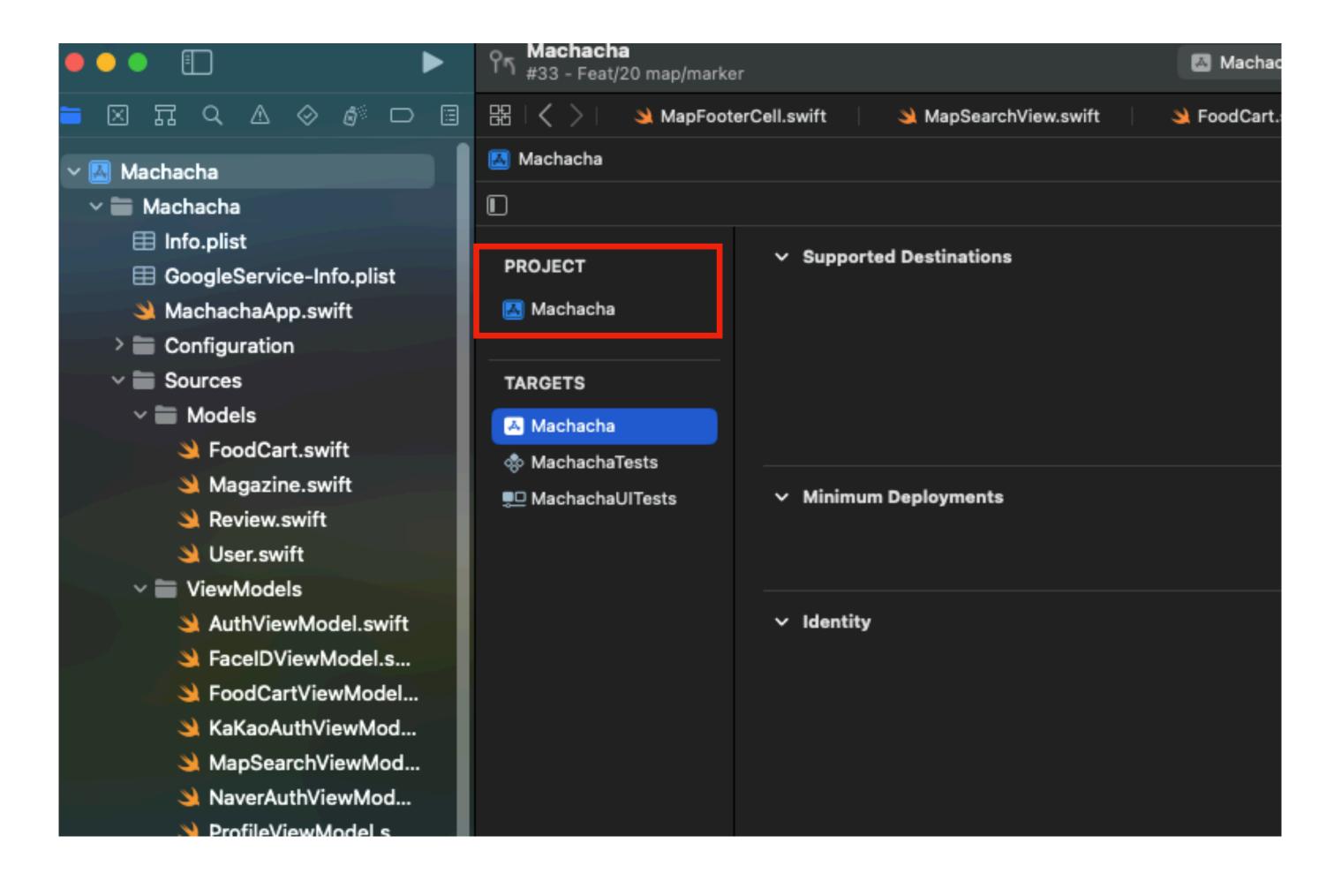
- Target
- Project
- Workspace
- 모듈화

Target



project나 Workspace의 파일들을 빌드하여 생성되는 End Product를 의미

Project



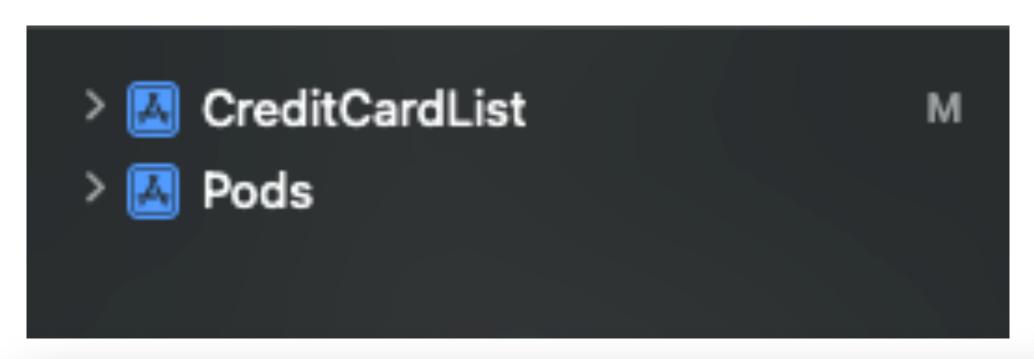
Project가 가지고 있는 정보

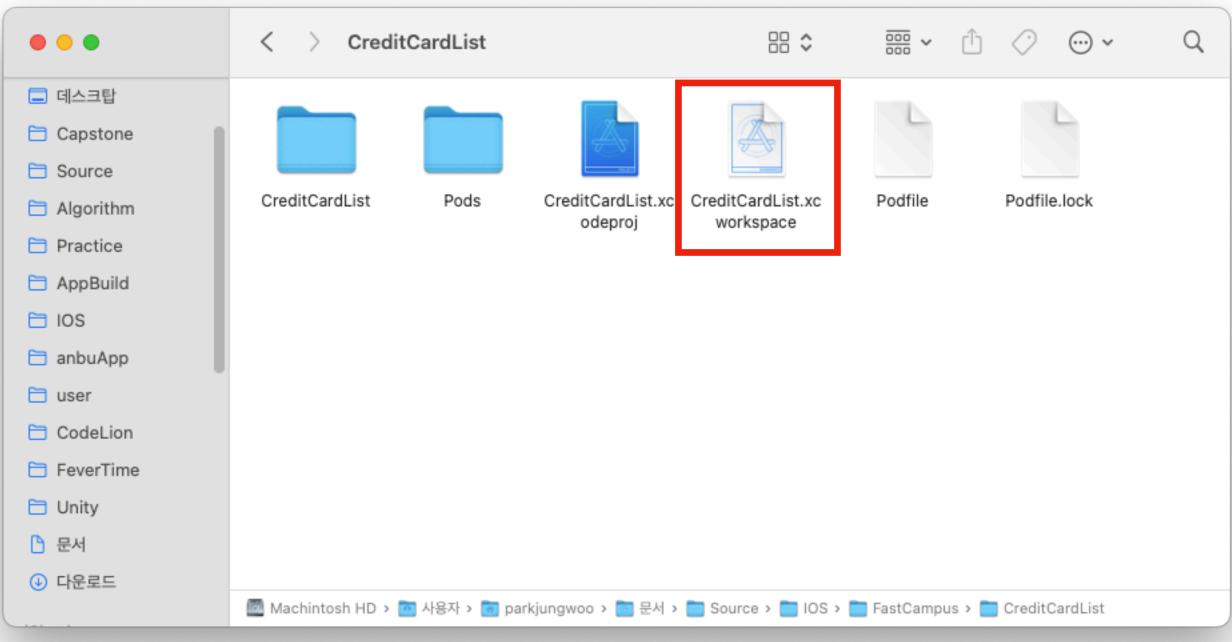
- 소스파일에 대한 참조
- Debug, release와 같은 build configuration을 설정 가능

Project.phxproj

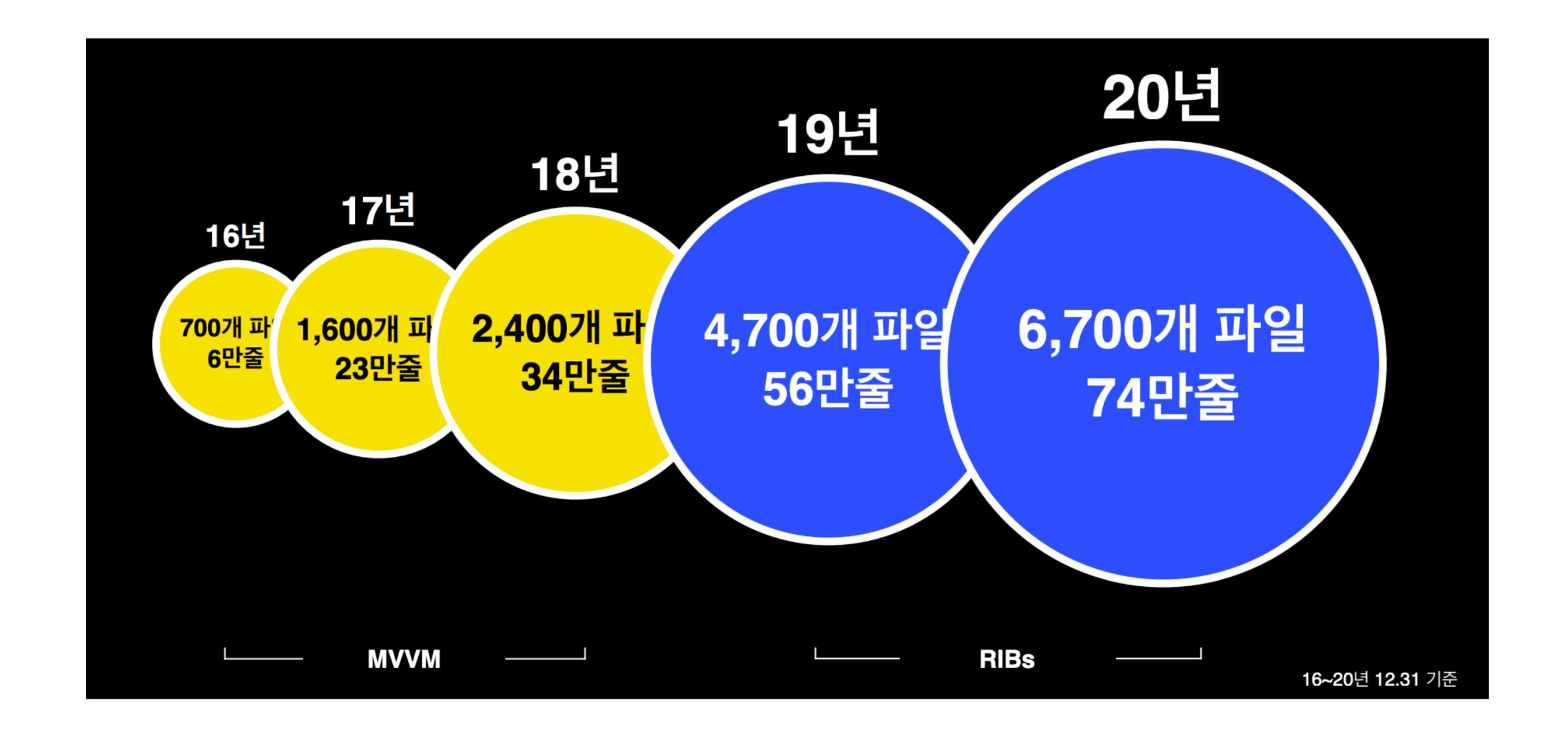
• 각 파일들의 참조값들을 UUID들로 정의

Workspace

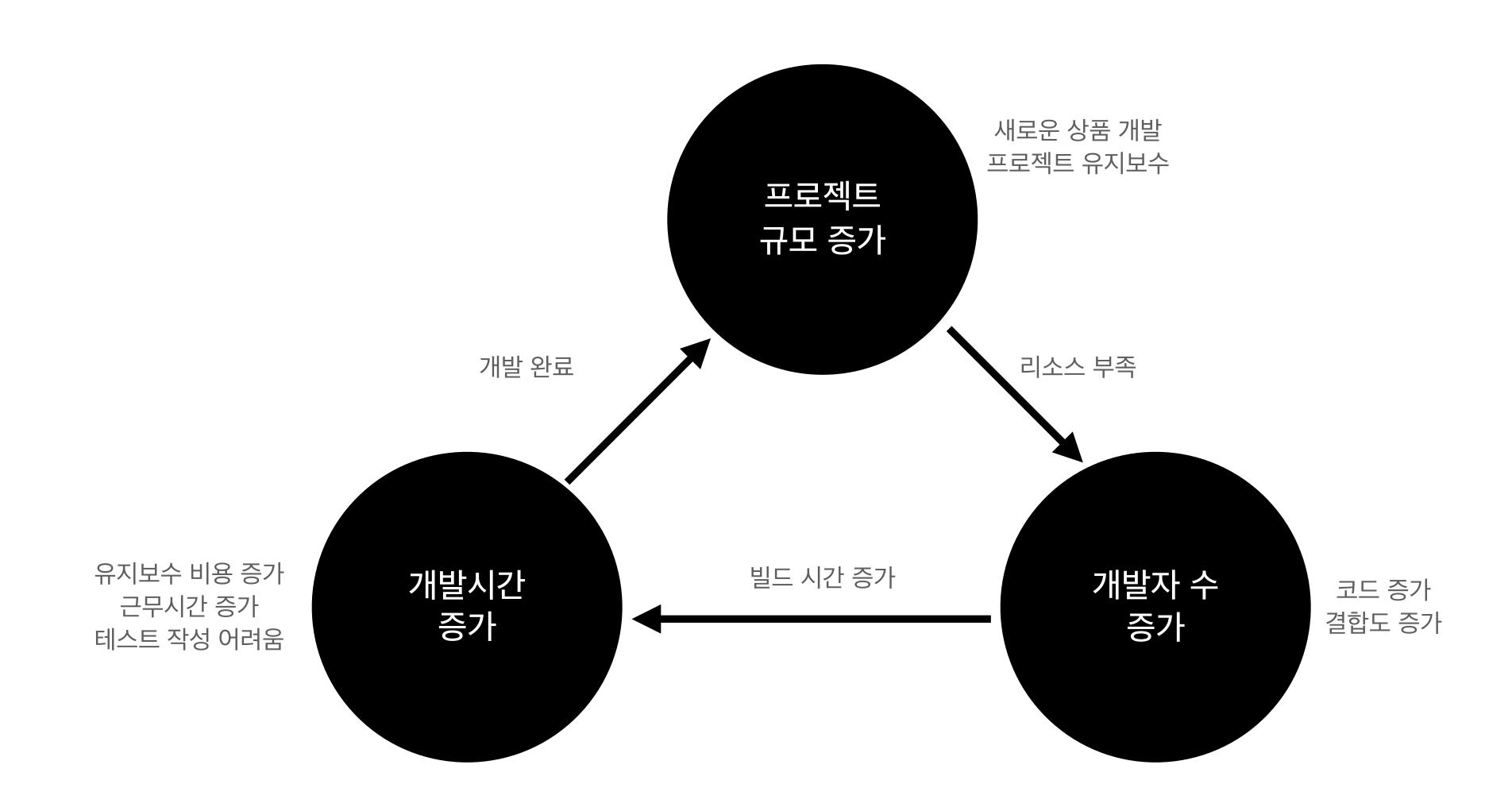




- Xcode의 Project 및 기타 리소스를 그룹화하여 함께 작업할 수 있는 Xcode document
- 다수의 Project를 사용하고 싶은 경우, workspace 하위로 관리
- 각 Project의 파일을 구성하는 것 외에도 workspace에 포함된 Project들과 Target간의 관계를 제공

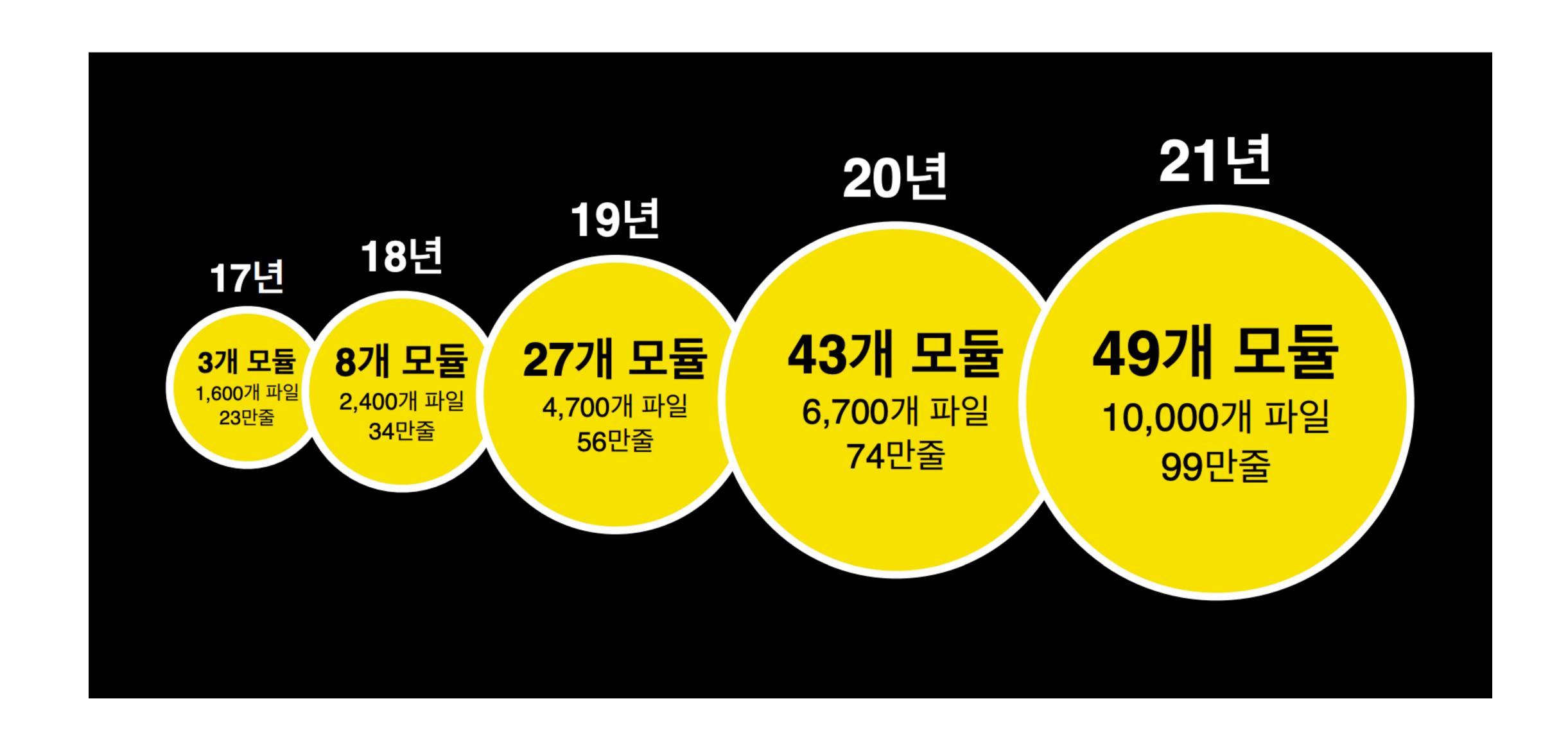


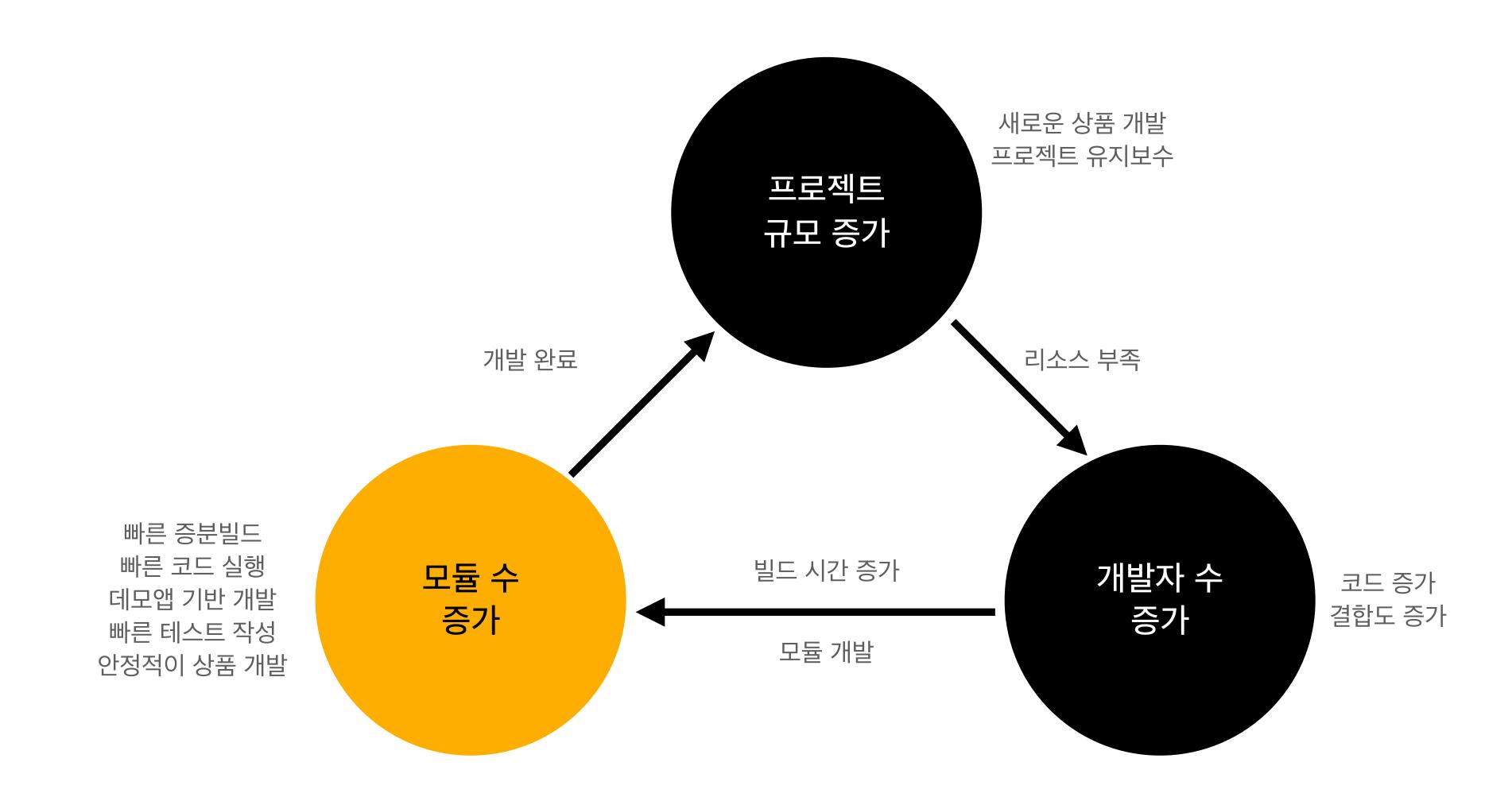
개발 프로세스





모듈화로 해결할수 있지 않을까?



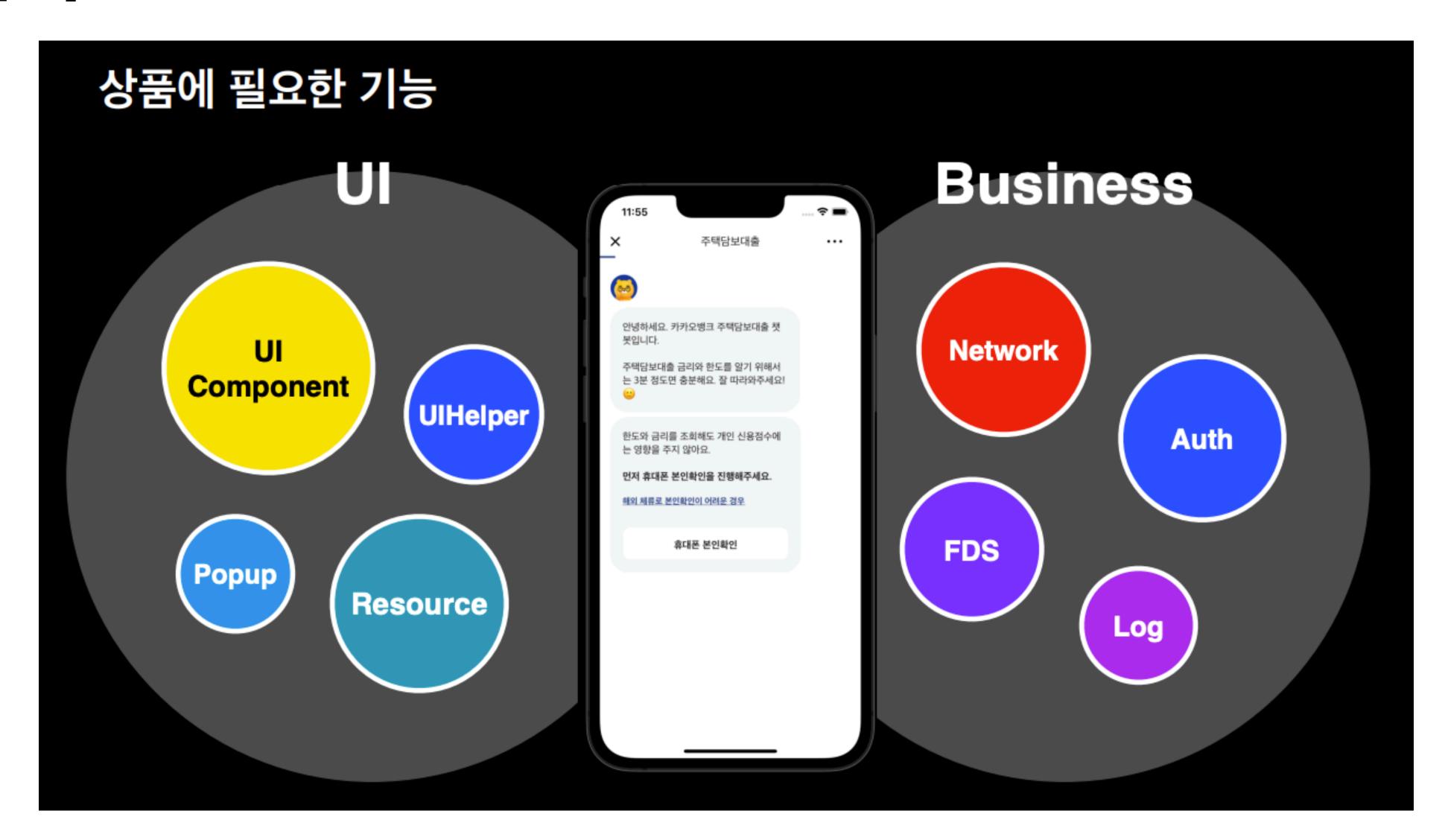


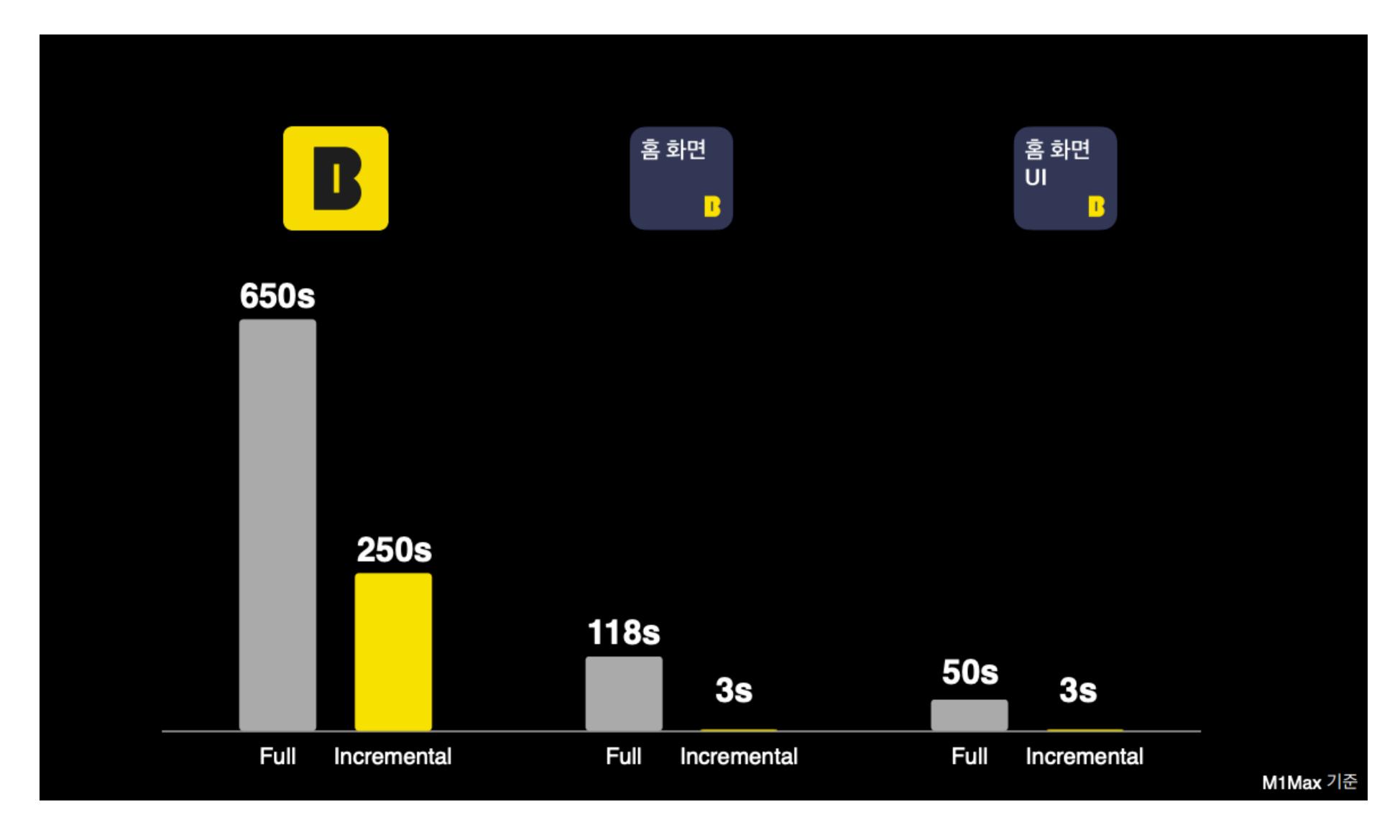
모듈조립

배른빌드

안정적인 기능, 상품 개발

UI, 비즈니스 로직 개발 및 실행





Tuist 사용해 보기

Install

The first thing that we need to do to get started is installing the tool. To do so, you can run the following commands in your terminal:

curl -Ls https://install.tuist.io | bash

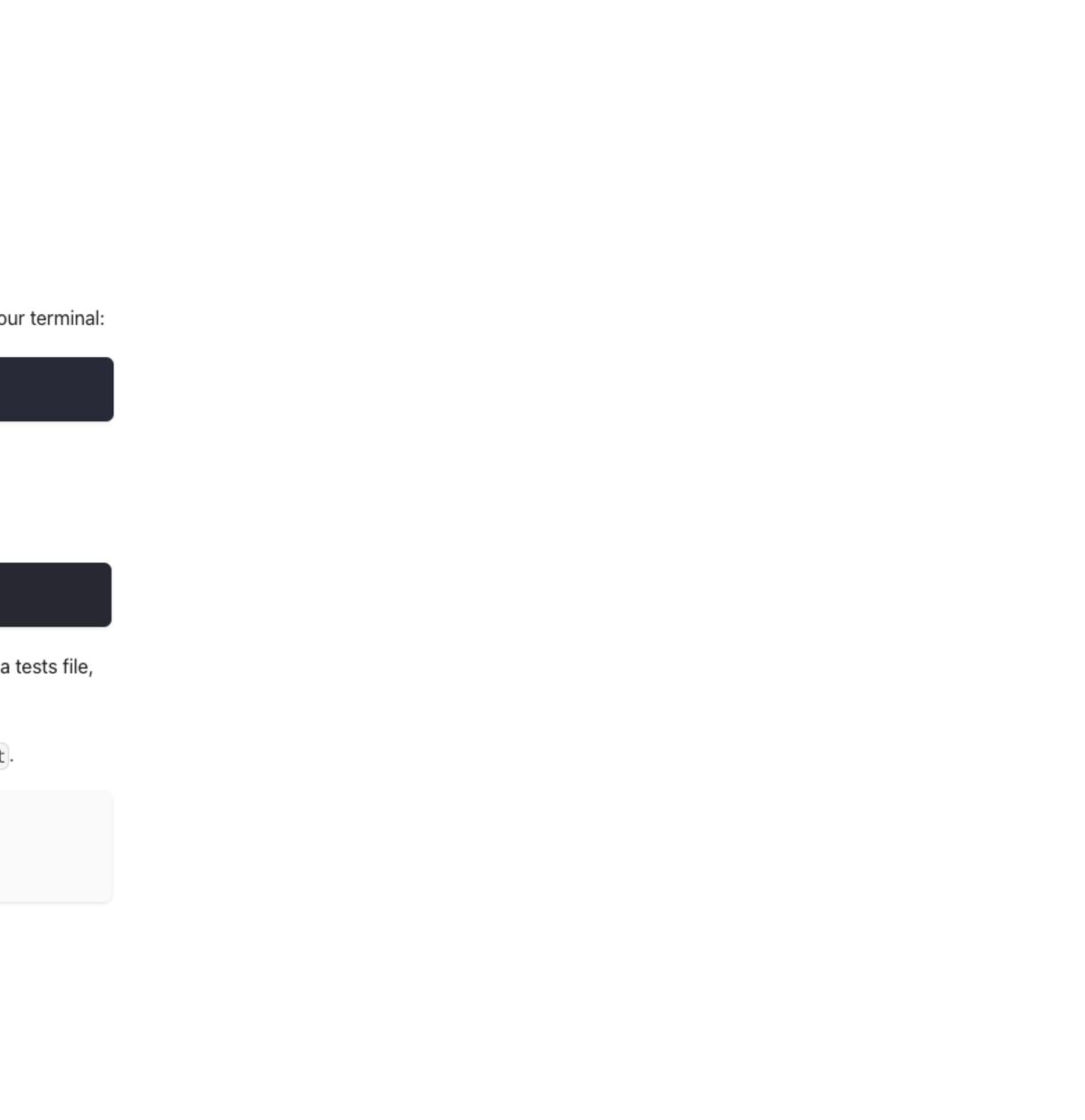
tuist init --platform ios

The init command will bootstrap an iOS application, which includes the Info.plist files, an AppDelegate.swift, a tests file, and a Project.swift that contains the definition of the project.

If you have used the Swift Package Manager before, the Project.swift file is the equivalent to the Package.swift.

(i) SWIFTUI TEMPLATE

tuist init --platform ios --template swiftui will bootstrap a SwiftUI iOS project instead.



Tuist 사용해 보기

tuist edit

```
import ProjectDescription
let project = Project(
   name: "MyApp",
   organizationName: "MyOrg",
    targets: [
       Target(
           name: "MyApp",
           platform: .iOS,
           product: .app,
           bundleId: "io.tuist.MyApp",
           infoPlist: "Info.plist",
           sources: ["Sources/**"],
           resources: ["Resources/**"],
           headers: .headers(
               public: ["Sources/public/A/**", "Sources/public/B/**"],
               private: "Sources/private/**",
               project: ["Sources/project/A/**", "Sources/project/B/**"]
           dependencies: [
       Target(
           name: "MyAppTests",
           platform: .iOS,
           product: .unitTests,
           bundleId: "io.tuist.MyAppTests",
           infoPlist: "Info.plist",
           sources: ["Tests/**"],
           dependencies: [
               .target(name: "MyApp")
```

터미널에서 ctrl + c 입력하여 편집 종료

Tuist 사용해 보기

tuist generate

Tuist: Ready | Today at 9:05 PM 🔒 1 👛 I ☑ 〒 Q △ ♦ 🔊 🗆 🗉 器 | < > | 🔌 TuistApp.swift V 🔼 Tuist ∨ 🚞 Project 푸 📄 Content View > 🔳 Derived 2 // ContentView.swift-∨

Targets 3 // ··Tuist v 🚞 Tuist 4 //¬ 5 // Created by Park Jungwoo on 2023/02/02. 6 // Copyright © 2023 tuist.io. All rights reserved. ∨ ■ Sources 7 //¬ Views 9 import SwiftUI-11 struct ContentView: View {-Package Dependencies
> ** Alamofire 5.6.4 12 ····var·body: some View {-13 · · · · · · · VStack · {-ReactorKit 3.2.0 14 Text("Tuist Test") > 📦 RxSwift 6.5.0 15 Image(systemName: "hand.thumbsup")-> 📦 WeakMapTable 1.2.1 16 Text("첫번째 커밋입니다.")-17 Text("ReactorKit Library 추가") Tuist Test 18 · · · · · · · } ¬ 20 }-22 struct ContentView_Previews: PreviewProvider {-23 ····static var previews: some View {-24 ···· ContentView()-26 }-• R 88 (0) ପ୍ର ଭ୍ର Line: 10 Col: 1 우리가 알던 프로젝트가 나옴

Tuist 사용해 보기 중요한 점

Git push

항상 tuist generate

Pbxproj conflict 해방

```
project.phyproj ) No Selection
        ZIPBYZYLSDASDJWZ4DJIWWEEZDFDSEFU /* UDSETVEUN, SWITT IN DOUECES
                                                                                            in Headers */ = tiss = Peasuriderie; fireHet =
            */ = (isa = PBXBuildFile; fileRef =
                                                                                            2C2A6EBC556AF77DC3EAE47EA3D033A5 /*
            B503D0C9B356CBB66113FB747FE04CC2 /* ObserveOn.swift */; );
                                                                                            GULReachabilityChecker.h */; settings - (ATTRIBUTES -
        2287C88298FD767391F650D36F858843 /* Observable.swift in
                                                                                            (Private, 3: 3: 3:
            Sources */ = {isa = PBXBuildFile; fileRef =
                                                                                         35565924E2658989AD8F21113C884291 /* SwiftySignature-dumny.m in
           CEDAD44890165F14ABBE7752A4D4E7BD /* Observable.swift
                                                                                            Sources */ = {isa = PBXBuildFile; fileRef =
                                                                                            C4209E54595DAD4E42F20CB4EFC1A3BB /* SwiftySignature-
        221DAE8877648A6A545214DE78A5E611 /* RLMObjectBase.h in Headers
                                                                                            dummy_m */; 3;
           */ = {isa = PBXBuildFile; fileRef =
                                                                                        35749EED87C3CF74AF47D8D9ED8252F4 /*
            ASCASSFB75BBB99BAGCSA7CABSESESDS /* RLMObjectBase.h */; );
                                                                                            PrimitiveSequence+Zip+arity.swift in Sources */ = {isa =
        225262C43C468CABAF18A76889888732 /* UIScrollView+Rx.swift in
                                                                                            PBXBuildFile; fileRef = BBB3@9C61D59A8456BEB236627@24738 .
            Sources */ = (isa = PBXBuildFile; fileRef =

    PrimitiveSequence+Zip+arity.swift */; );

           SFA67D73SFD8387BC547A370640D8D84 /* UIScrollView+Rx.swift
                                                                                         3586F3800C3822770E3F91989643F889 /* RLMCbjectStore.h in Copy
           */1 31
                                                                                            Private Headers */ = {isa = PBXBuildFile; fileRef =
        2283375C0C99789CF47EEDA0CE9D3D00 /* ImageProcessor.swift in
                                                                                            Sources */ = {isa = PBXBuildFile; fileRef =
                                                                                            */: 3:
                                                                                         360886868484088764C9CD6691C543A86E /* placeholder.cpp in Sources
           @E&39FA734425F51782ED5B11FE45@F@ /* ImageProcessor.swift
                                                                                            */ = {isa = PBXBuildFile; fileRef =
        228E8A389D060D73FAB125C58738C8DD /* EasyPeasy-dummy.m in
                                                                                            DBC153348BERA92CBBRA16BB4847CB17 /* placeholder.cpp */;
            Sources */ = {isa = PBXBuildFile; fileRef =
                                                                                            settings = (COMPILER_FLAGS = "-DREALM_HAVE_CONFIG -
           BEDAB43ED4327ED572B36C6965133D1B /* EasyPeasy-dummy.m
                                                                                            DREALM_COCOA_VERSION='8\"3.12.8\"' -D_ASSERTMACROS__ -
            */: 3:
                                                                                            DREALM_ENABLE_SYNC"; ); );
        235583C26668A94D184C2A4293FCA129 /* Take.smift in Sources */ =
                                                                                         3426894894672CB1C9DEA3289F9502E1 /* TaskDelegate.swift in
                                                                                            Sources */ = (isa = PBXBuildFile: fileRef =
           (isa = PBXBuildFile; fileRef =
            FDCC288CFC71EE468668A2E16F0683D5 /* Take.swift */; );
                                                                                            #D156584139A898682A8988D8D767CDC /* TaskDelegate.swift */
        2382F0F1376608160A0430983EB30553 /* UITabBarItem+Rx.swift in
                                                                                        365F85D81A6F41B7418B3696176D073A /* GPBExtensionRegistry.h in
            Sources */ = {isa = PBXBuildFile; fileRef =
           DB37F02OA08658981FDF8EAF99FE7028 /* UITabBarItem=Rx.swift
                                                                                            EA98D6B32F8BF7B7FF58D05155356BAE /* GP8ExtensionRegistry.h
                                                                                            */: settings = (ATTRIBUTES = (Public, ); );
        23FB1RB34B3395AA6BAB276BCDFDBD6A /* BugfenderSDK-dummy.m in
                                                                                        348508CA72503DB758DF384064ED8531 /* TCPClient.swift in Sources
            Sources */ = (ise = PBXBuildFile: fileRef =
            2056E4753C84431698818417E68F1715 /* BugfenderSDK-dummy.m
                                                                                            */ = {isa = PBXBuildFile; fileRef =
                                                                                            BBF006B688904A6AF8AF3E192001AA90 /* TCPClient.swift */; };
           */1 31
                                                                                        3695A9A3117EC45CBF9FABE1D1#3ABCA /* ObserverType.swift in
        249EEF18BFAF8B4A52A8F8426867981A /*
           RLMRealmConfiguration_Private.h in Copy . Private Headers
                                                                                            Sources */ = (iss = PBXBuildFile; fileRef =
                                                                                            A3647EFD27BA44E27C3A793A1B57DC9F /* ObserverType.swift #/;
           */ = {isa = PBXBuildFile; fileRef =
            D895A971E71903195D677961C79E87E8 /*
           MLMSRealmConTiguration_Private.h #/; };
        24F0889F858A28EF278AF5AEE803C057 /* RLMObjectBase_Private.h in
           Headers */ = (isa = PEXBuildFile: fileRef =
                                                                                            * FIRMessagingPersistentSyncMessage.m */; };
                                                                                        36C16BC9A96A29AADCA91ABC6B375E5E /* AsSingle.swift in Sources
        2668A39759D5E3959F835D87D1D2E536 /* Localize-Swift-dummy.m in
                                                                                            */ = {isa = PBXBuildFile; fileRef =
                                                                                            SBERCSSCETATIORREGISDFOTACTSSEAR /* Assimple.swift */: ):
            Sources */ = fisa = PRXSuildFile: fileRef =
```

모듈화의 이점

• 코드 안전성

• 모듈간 결합도가 낮아지고 응집도가 높아지는 만큼 안정성

• 개발 생산성

- 모듈별 의존성이 낮아지면 고려해야하는 범위가 낮아져 개발속도 향상
- 코드 리뷰 시 관련 모듈만 검토 가능

• 빌드 속도

• 자주 변경되지 않는 모듈의 빌드가 발생하지 않아 빌드 속도 증가

• 사용 목적에 맞는 코드 배치

• 용도와 목적에 맞는 코드 배치로 이해하기 쉬운 프로젝트 구성

참고

- https://www.youtube.com/watch?v=7rvwGLhor-I&t=173s
- https://ios-development.tistory.com/1004
- https://leeari95.tistory.com/74#Tuist%EB%A5%BC-%EC%82%AC%EC%9A%A9%ED%95%98%EA%B8%B0-%EC%A0%84%EC%97%90-%EC%95%8C%EC%95%84%EC%95%BC-%ED%95%A0-%EA%B0%9C%EB%85%90
- https://docs.tuist.io/tutorial/get-started/
- https://www.youtube.com/watch?v=Up0wYoyY3o0&t=1497s