

iOS创建CocoaPods私有库

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阅读 401

前言

iOS开发者，会经常使用CocoaPods管理第三方库。但是，无论是组件化开发还是需要创建公司内部的一类库，我们都可以制作自己私有的CocoaPods库。本文就是详细说明私有库创建流程。

1.准备工作

- 创建两个私有远程仓库 LWSpec 和 LWLib

- WYSpec 仓库用来存储本地 spec
- WYLib 用来存储项目工程文件

2.创建pod私有库的项目工程

- cd 到合适目录下用命令行创建工程

- 执行 pod lib create WYLib

```
1 MacBook-Pro ~ % cd desktop
2 MacBook-Pro desktop % pod lib create LWLib
```

- 回车之后终端会进行灵魂，按照自己的需求回答。

```
1 #选择平台
2 What platform do you want to use?? [ iOS / macOS ]
3 > iOS
4 #选择编程语言
5 What language do you want to use?? [ Swift / ObjC ]
6 > ObjC
7 #在你的项目中是否创建一个demo工程。 为了方便测试，我选择了Yes
8 Would you like to include a demo application with your library? [ Yes / No ]
9 > Yes
10 #测试框架选择哪一个
11 Which testing frameworks will you use? [ Specta / Kiwi / None ]
12 > None
13 #要不要做视图测试
14 Would you like to do view based testing? [ Yes / No ]
15 > Yes
16 # 类前缀名
17 What is your class prefix?
18 > LW
19 security: SecKeychainSearchCopyNext: The specified item could not be found in the keychain.
20 security: SecKeychainSearchCopyNext: The specified item could not be found in the keychain.
21 security: SecKeychainSearchCopyNext: The specified item could not be found in the keychain.
22 security: SecKeychainSearchCopyNext: The specified item could not be found in the keychain.
23 security: SecKeychainSearchCopyNext: The specified item could not be found in the keychain.
24 security: SecKeychainSearchCopyNext: The specified item could not be found in the keychain.
25
26 Running pod install on your new library.
27
28 Analyzing dependencies
29 Fetching podspec for 'YOURPODNAME' from `../`
30 Downloading dependencies
31 Installing YOURPODNAME (0.1.0)
32 Generating Pods project
33 Integrating client project
34
35 [!] Please close any current Xcode sessions and use 'LWLib.xcworkspace' for this project.
36 Sending stats
37 Pod installation complete! There is 1 dependency from the Podfile and 1 total pod installed.
38
39 Ace! you're ready to go!
40 We will start you off by opening your project in Xcode
41 open 'LWLib/Example/LWLib.xcworkspace'
42
43 To learn more about the template see 'https://github.com/CocoaPods/pod-template.git'
44 To learn more about creating a new pod, see 'https://guides.cocoapods.org/making/'
```

- 创建完成后自动打开

- 然后进入 LWLib 文件夹中找到 Classes 中的 ReplaceMe.m 文件删除，然后将自己所需要的文件放到这里目录下

- cd 到 Example 路径下，执行 pod install 更新 Example 中的 pod

- 打开 Example 中的 .workspace 文件，打开工程。

找到 `podspec`

- 修改 `podspec`

```
1 Pod::Spec.new do |s|
2   #项目名称
3   s.name = 'LWLib'
4   #版本号
5   s.version = '0.1.0'
6   #项目摘要
7   s.summary = 'LWLib.'
8   # This description is used to generate tags and improve search results.
9   # * Think: What does it do? Why did you write it? What is the focus?
10  # * Try to keep it short, snappy and to the point.
11  # * Write the description between the DESC delimiters below.
12  # * Finally, don't worry about the indent, CocoaPods strips it!
13  #项目描述
14  s.description = <<-DESC
15  LWLib的项目描述，这是自己创建的一个项目
16  DESC
17
18  #主页，这里要填写可以访问的地址，不然验证不通过
19  #个人远程仓库的地址
20  s.homepage = 'https://gitee.com/ZhaoLaoWu/LWLib'
21  # s.screenshots = 'www.example.com/screenshots_1', 'www.example.com/screenshots_2'
22  s.license = { :type => 'MIT', :file => 'LICENSE' }
23  #作者信息
24  s.author = { '赵桂安' => '62391649@qq.com' }
25  #项目地址，这里不建议使用ssh地址，会有警告，建议使用HTTP或者HTTPS，最好使用HTTPS。
26  #更改成自己的远程仓库地址
27  s.source = { :git => 'https://gitee.com/ZhaoLaoWu/LWLib.git', :tag => s.version }
28  # s.social_media_url = 'https://twitter.com/CTWITTER_USERNAME'
29  #最低支持的iOS版本
30  s.ios.deployment_target = '8.0'
31  #代码源文件地址
32  s.source_files = 'LWLib/Classes/**/*'
33
34  # s.resource_bundles = {
35  #   'LWLib' => ['LWLib/Assets/*.png']
36  # }
37
38  # s.public_header_files = 'Pod/Classes/**/*.*'
39
40  #根据自己是否有依赖库来决定是否添加
41  #依赖的frameworks
42  # s.frameworks = 'UIKit', 'MapKit'
43  #依赖的公共库或者私有库
44  # s.dependency 'AFNetworking', '~> 2.3'
45  end
46
```

- 修改完成后,cd 到 LWLib 文件

执行 pod lib lint

出一下表示成功

```
1 MacBook-Pro LWLib % pod lib lint
2
3 -> LWLib (0.1.0)
4 #注意如果没有警告，最好把问题解决了，我这个是已经解决的。
5 - NOTE | xcodesbuild: note: Using new build system
6 - NOTE | xcodesbuild: note: Building targets in parallel
7 - NOTE | [iOS] xcodesbuild: note: Planning build
8 - NOTE | [iOS] xcodesbuild: note: Constructing build description
9 - NOTE | [iOS] xcodesbuild: warning: Skipping code signing because the target does not have an executable.
10 - NOTE | [iOS] xcodesbuild: note: Execution policy exception registration failed
11 - NOTE | [iOS] xcodesbuild: note: Execution policy exception registration failed
12 - NOTE | [iOS] xcodesbuild: note: Execution policy exception registration failed
13
14 LWLib passed validation.
15 #已经完成通过
```

3.将本地文件上传到远程仓库

```
1 MacBook-Pro LWLib % git remote add origin https://gitee.com/ZhaoLaoWu/LWLib.git
2 MacBook-Pro LWLib % git add .
3 MacBook-Pro LWLib % git commit -m "Initial commit"
4 MacBook-Pro LWLib % git push -u origin master
5 #To https://gitee.com/ZhaoLaoWu/LWLib.git
6 # ! [rejected] master -> master (fetch first)
7 #error: failed to push some refs to 'https://gitee.com/ZhaoLaoWu/LWLib.git'
8 #hint: Updates were rejected because the remote contains work that you do
9 #hint: not have locally. This is usually caused by another repository pushing
10 #hint: to the same ref. You may want to first integrate the remote changes
11 #hint: (e.g., 'git pull ...') before pushing again.
12 #hint: See the 'Note about fast-forwards' in 'git push --help' for details.
13 #注意： 当执行推送远端失败时，先执行以下操作
14 MacBook-Pro LWLib % git pull origin master
15 #From https://gitee.com/ZhaoLaoWu/LWLib
16 # * branch master -> FETCH_HEAD
17 #fatal: refusing to merge unrelated histories
18 #注意： 如果出现上面所示错误，需添加 --allow-unrelated-histories即可
19 MacBook-Pro LWLib % git pull origin master --allow-unrelated-histories
20 #From https://gitee.com/ZhaoLaoWu/LWLib
21 # * branch master -> FETCH_HEAD
22 #CONFLICT (add/add): Merge conflict in README.md
23 #Automatic merge failed; fix conflicts and then commit the result.
24 #合并README.md的冲突 然后 commit
25 MacBook-Pro LWLib % git add .
26 MacBook-Pro LWLib % git commit -m "解决合并冲突"
27 #推送更新到远程仓库
28 #注意： 第一次推送master分支时，加上了 -u参数，Git不但会把本地的'master'分支内容推送的远端新的'master'分支
29 MacBook-Pro LWLib % git push -u origin master
30 #Enumerating objects: 116, done.
31 #Counting objects: 100% (116/116), done.
32 #Delta compression using up to 4 threads
33 #Compressing objects: 100% (104/104), done.
34 #Writing objects: 100% (114/114), 53.17 KiB | 3.54 MiB/s, done.
35 #Total 114 (delta 25), reused 0 (delta 0)
36 #remote: Resolving deltas: 100% (25/25), completed with 1 local object.
37 #remote: Powered by GITEE.COM [GNK-5.0]
38 #To https://gitee.com/ZhaoLaoWu/LWLib.git
39 # 82f9eaf..b38a835 master -> master
40 #Branch 'master' set up to track remote branch 'master' from 'origin'.
41 #tag 值要和podspec中的version一致
42 MacBook-Pro LWLib % git tag 0.1.0
43 #推送tag到服务器上
44 MacBook-Pro LWLib % git push --tags
45 #Total 0 (delta 0), reused 0 (delta 0)
46 #remote: Powered by GITEE.COM [GNK-5.0]
47 #To https://gitee.com/ZhaoLaoWu/LWLib.git
48 # * [new tag] 0.1.0 -> 0.1.0
49
```

这是查看远程仓库已经有代码了

4.校验Spec

- 执行 pod spec lint

```
1 zhaoguian@ZhaoguiandeMacBook-Pro LWLib % pod spec lint
2
3 -> LWLib (0.1.0)
4 - NOTE | xcodesbuild: note: Using new build system
5 - NOTE | xcodesbuild: note: Building targets in parallel
6 - NOTE | [iOS] xcodesbuild: note: Planning build
7 - NOTE | [iOS] xcodesbuild: note: Constructing build description
8 - NOTE | [iOS] xcodesbuild: warning: Skipping code signing because the target does not have an executable.
9 - NOTE | [iOS] xcodesbuild: note: Execution policy exception registration failed
10 - NOTE | [iOS] xcodesbuild: note: Execution policy exception registration failed
11 - NOTE | [iOS] xcodesbuild: note: Execution policy exception registration failed
12
13 Analyzed 1 podspec.
14
15 LWLib.podspec passed validation.
16
```

出现上述描述表示成功。

5.创建spec repo

- 进入文件夹 ~/.cocoapods/repos 可以查看本地 spec repo

- 指定管理 lib repo 的 specs repo 的 url

```
pod repo add LWLib https://gitee.com/ZhaoLaoWu/LWSpec.git
```

注意 此处地址是spec仓库地址

- 推送 podspec 到 specs repo

```
pod repo push LWLib LWLib.podspec --sources=https://gitee.com/ZhaoLaoWu/LWSpec.git
```

```
1 MacBook-Pro LWLib % pod repo push LWLib LWLib.podspec --sources=https://gitee.com/ZhaoLaoWu/LWSpec.git
2
3 Validating spec
4 -> LWLib (0.1.0)
5 - NOTE | xcodesbuild: note: Using new build system
6 - NOTE | xcodesbuild: note: Building targets in parallel
7 - NOTE | [iOS] xcodesbuild: note: Planning build
8 - NOTE | [iOS] xcodesbuild: note: Constructing build description
9 - NOTE | [iOS] xcodesbuild: warning: Skipping code signing because the target does not have an executable.
10 - NOTE | [iOS] xcodesbuild: note: Execution policy exception registration failed
11 - NOTE | [iOS] xcodesbuild: note: Execution policy exception registration failed
12 - NOTE | [iOS] xcodesbuild: note: Execution policy exception registration failed
13
14 Updating the 'LWLib' repo
15
16 Adding the spec to the 'LWLib' repo
17
18 - [Add] LWLib (0.1.0)
19
20 Pushing the 'LWLib' repo
```

出现上述表示已经成功

6.验证

- 创建一个新项目，在 Podfile 中创建并使用

```
1 source 'https://gitee.com/ZhaoLaoWu/LWSpec.git'
2 platform :ios, '10.0'
3 target 'CSLWLib' do
4   use_frameworks!
5   pod 'LWLib'
6 end
```

- cd 项目中 执行 pod install

```
1 MacBook-Pro % ~ % cd /Users/zhaoguian/Desktop/CSLWLib
2 MacBook-Pro % pod install
3
4 Analyzing dependencies
5 Downloading dependencies
6 Installing LWLib (0.1.0)
7 Generating Pods project
8 Integrating client project
9 Pod installation complete! There is 1 dependency from the Podfile and 1 total pod installed.
10
11 [!] Smart quotes were detected and ignored in your Podfile. To avoid issues in the future, please use backticks to quote strings.
12 zhaoguian@localhost:CSLWLib %
```

完成

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