

Tips and Tricks for Working with a New Codebase

Charlie Fish



About Me

- Built my first basic HTML website in 2006
- Started using the iOS SDK to build apps in 2009
- Attended my first 360iDev in 2010
- Started working at Wunderman Thompson Mobile (formerly POSSIBLE Mobile) in 2018

Why?



SWIFT BY SUNDELL A WEEKLY BLOG ABOUT SWIFT DEVELOPMENT

What makes a new codebase different?

- Prior work and conventions have already been defined
- Hundreds or thousands of files
- You didn't write it

Open Source

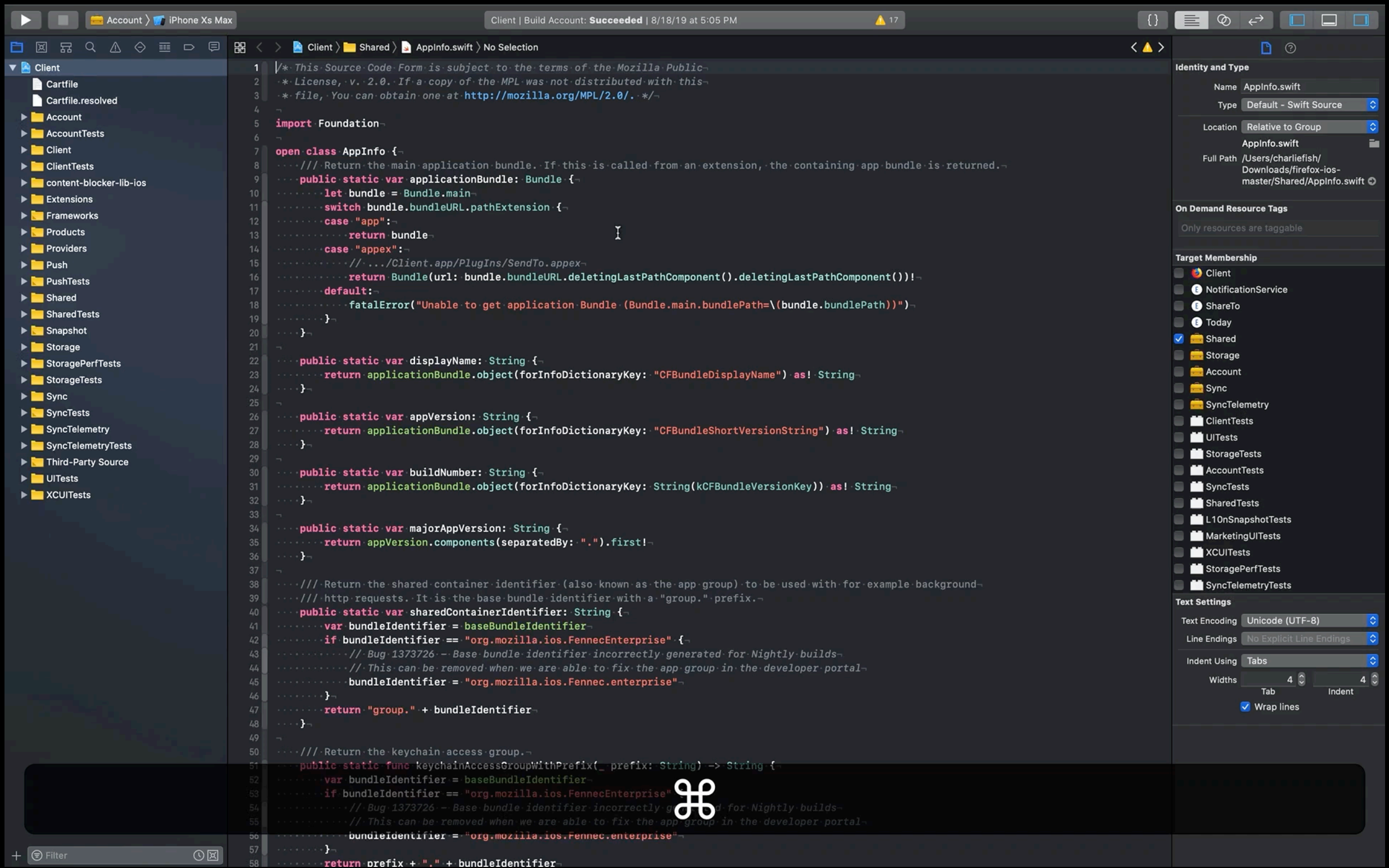
- Firefox
- Kickstarter
- GitHawk
- Wikipedia

How to start?

- Jump right in
- Find a bug or something you want to change
- Ask questions!
- You always know more than you think you do!
Trust your knowledge

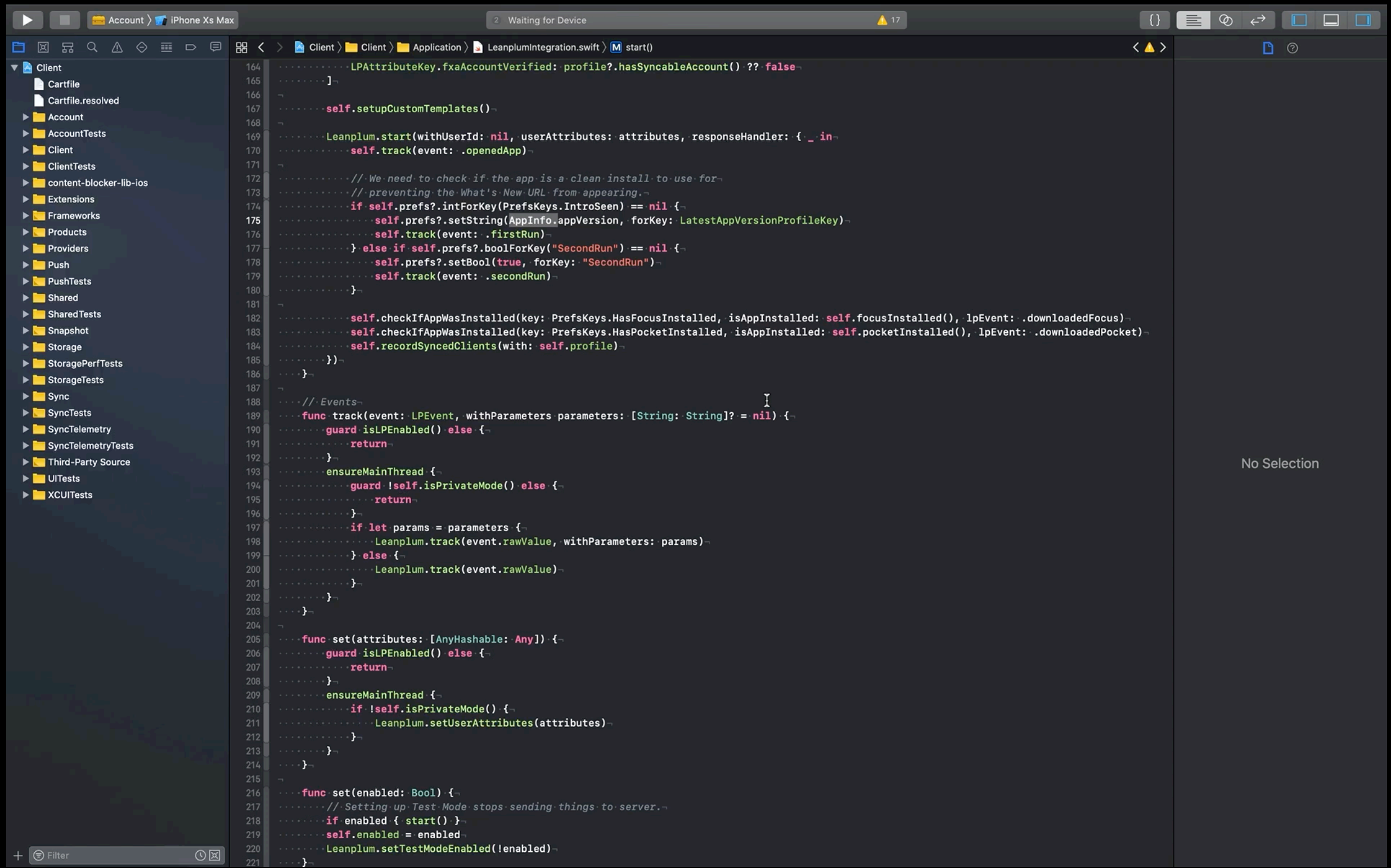
Xcode Tips

Find (Command + F)

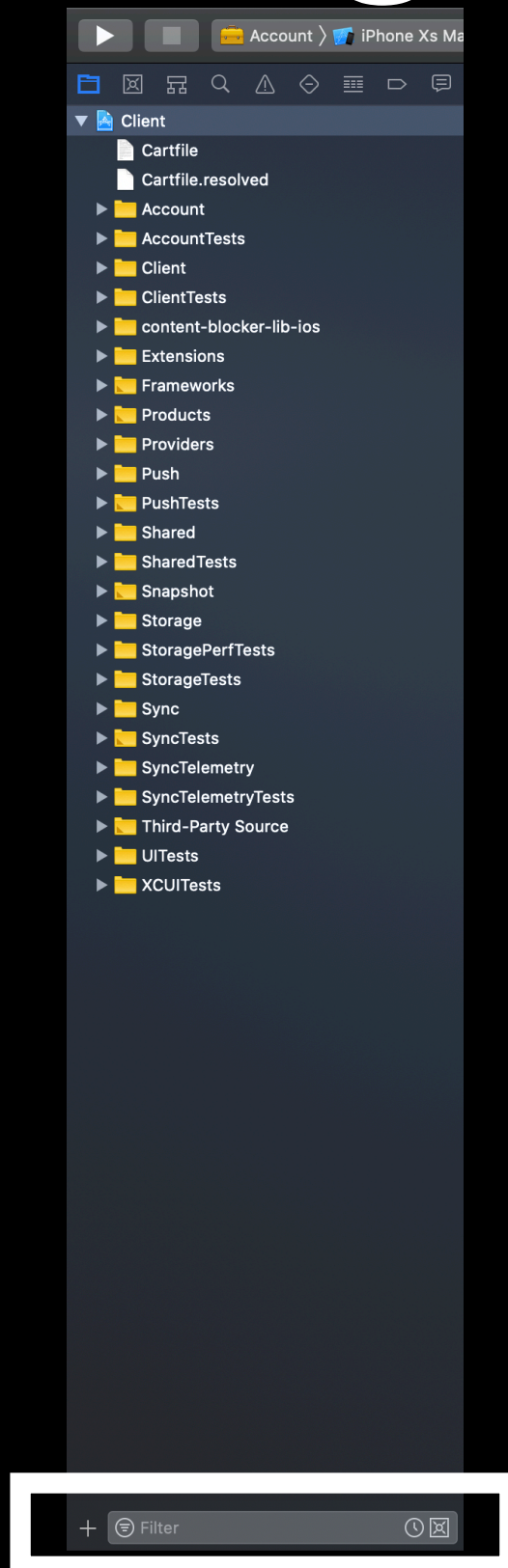


Find All

(Command + Shift + F)



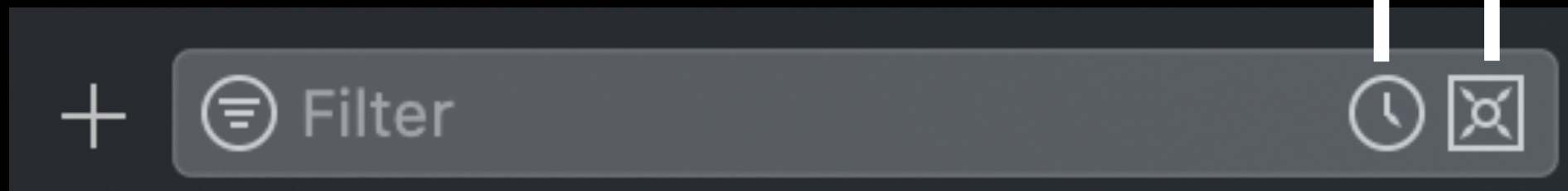
Project Navigator Filter



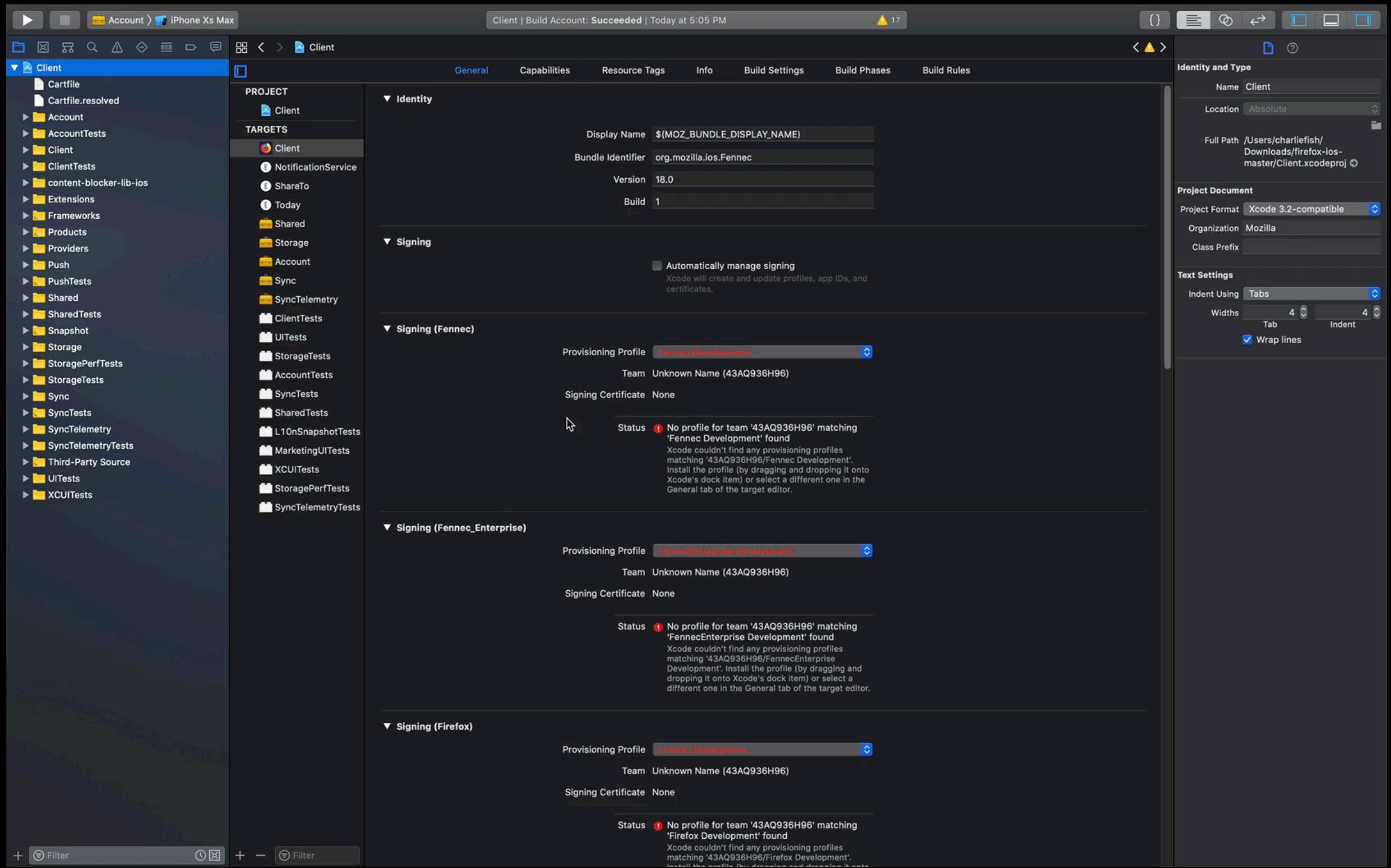
Project Navigator Filter

Recent Files

Source Control



Open Quickly (Command + Shift + O)



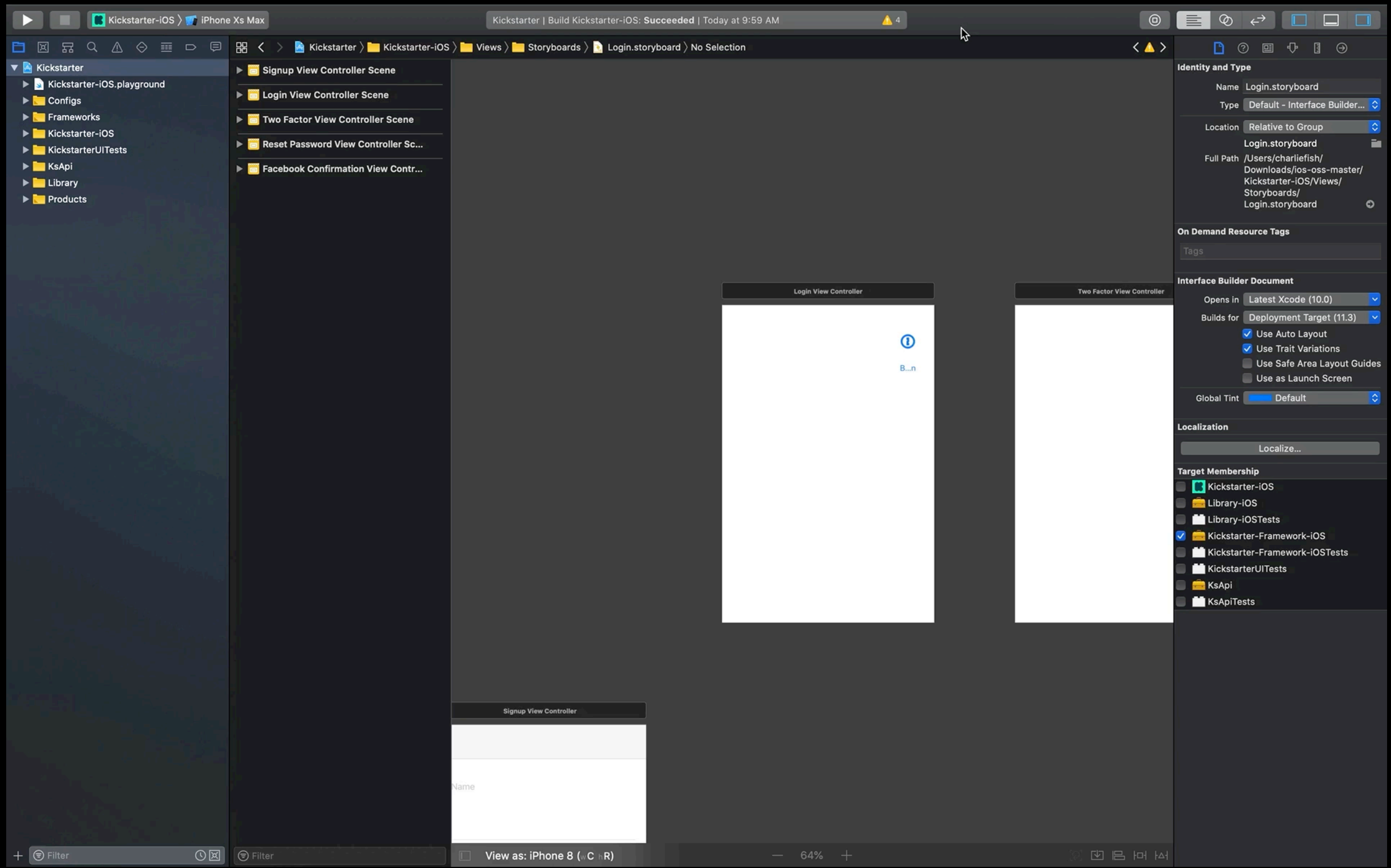
Jump to Definition

The screenshot displays the Xcode IDE interface. The top status bar indicates the build of 'Kickstarter' succeeded. The left sidebar shows the project structure with 'Kickstarter' selected. The main editor window shows the file 'SignupViewController.swift' with the following Swift code:

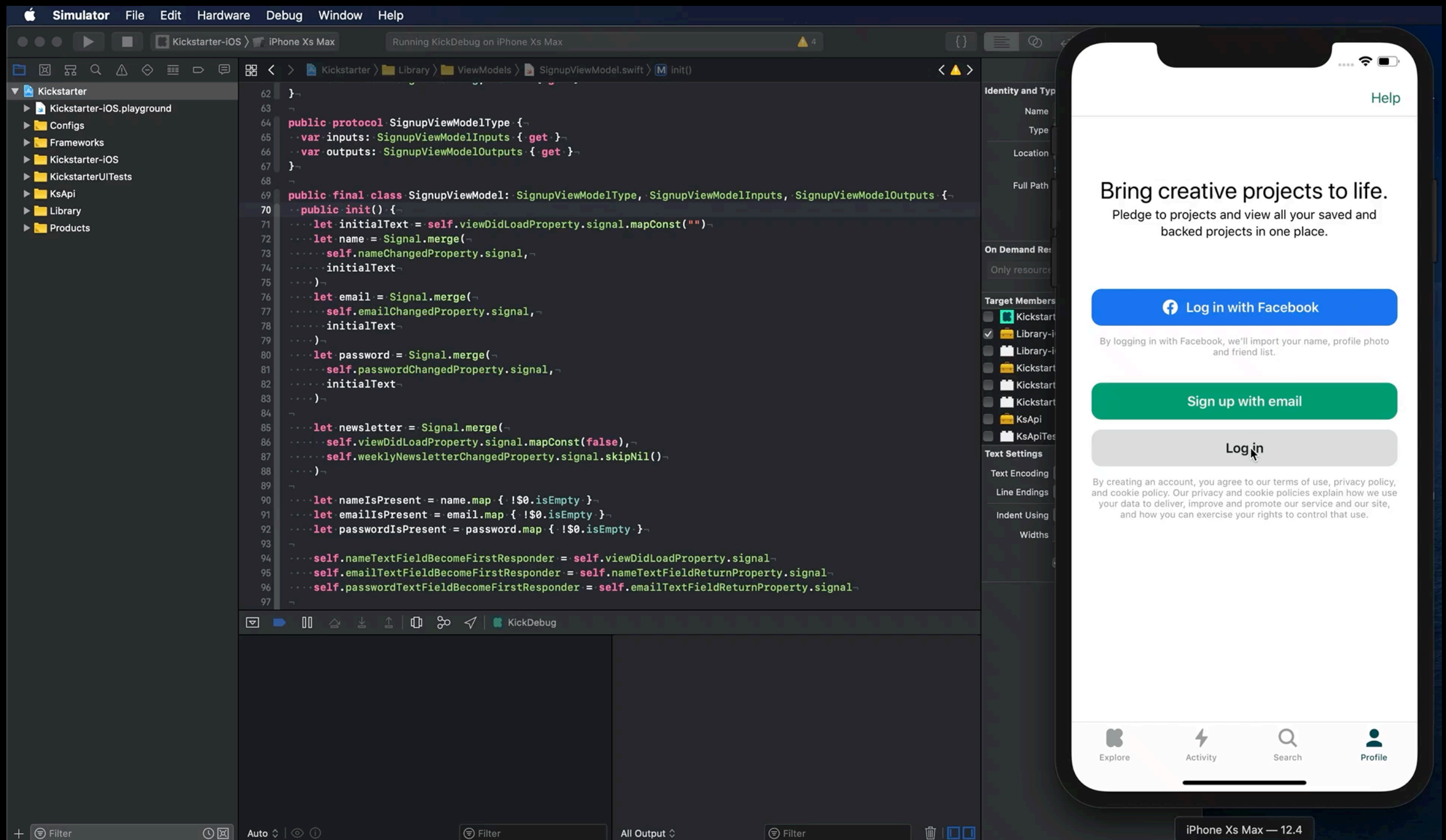
```
1 import Library
2 import MessageUI
3 import Prelude
4 import Prelude_Uikit
5 import UIKit
6
7 internal final class SignupViewController: UIViewController, MFMailComposeViewControllerDelegate {
8     fileprivate let viewModel: SignupViewModelType = SignupViewModel()
9     fileprivate let helpViewModel = HelpViewModel()
10
11     @IBOutlet fileprivate var scrollView: UIScrollView!
12     @IBOutlet fileprivate var disclaimerButton: UIButton!
13     @IBOutlet fileprivate var emailTextField: UITextField!
14     @IBOutlet fileprivate var formBackgroundView: UIView!
15     @IBOutlet fileprivate var nameTextField: UITextField!
16     @IBOutlet fileprivate var newsletterLabel: UILabel!
17     @IBOutlet fileprivate var newsletterSwitch: UISwitch!
18     @IBOutlet fileprivate var passwordTextField: UITextField!
19     @IBOutlet fileprivate var rootStackView: UIStackView!
20     @IBOutlet fileprivate var signupButton: UIButton!
21
22     internal static func instantiate() -> SignupViewController {
23         let vc = UIStoryboard.Login.instantiate(SignupViewController.self)
24         vc.helpViewModel.inputs.configureWith(helpContext: .signup)
25         vc.helpViewModel.inputs.canSendEmail(MFMailComposeViewController.canSendMail())
26         return vc
27     }
28
29     internal override func viewDidLoad() {
30         super.viewDidLoad()
31
32         self.nameTextField.addTarget(
33             self,
34             action: #selector(self.nameTextFieldReturn),
35             for: [.editingDidEndOnExit]
36         )
37
38         self.nameTextField.addTarget(
39             self,
40             action: #selector(self.nameTextFieldChanged(_:)),
41             for: [.editingDidEndOnExit, .editingChanged]
42         )
43
44         self.emailTextField.addTarget(
45             self,
46             action: #selector(self.emailTextFieldReturn),
47             for: [.editingDidEndOnExit]
48         )
49
50         self.emailTextField.addTarget(
51             self,
52             action: #selector(self.emailTextFieldChanged(_:)),
53             for: [.editingDidEndOnExit, .editingChanged]
54         )
55
56         self.passwordTextField.addTarget(
57             self,
58             action: #selector(self.passwordTextFieldReturn),
```

The right sidebar shows the 'Identity and Type' panel for 'SignupViewController.swift'. It lists the file's location and full path. Below this, the 'On Demand Resource Tags' section is empty. The 'Target Membership' section shows a list of targets, with 'Kickstarter-Framework-iOS' selected. The 'Text Settings' section shows the text encoding as 'Unicode (UTF-8)', line endings as 'No Explicit Line Endings', and indent settings as 'Spaces' with a width of 2 and an indent of 2. The 'Wrap lines' checkbox is checked.

Assistant Editor (Command + Option + Enter)



View Debugger



Summary

- Open Source
- Xcode Tips
- Ask questions!

Conclusion

- Slides available at <https://charlie.fish>
- Additional questions via Twitter (@char_fish)
- Contact information available at <https://charlie.fish/contact>





