Chapter 4: Enumerations and Pattern Matching

```
enum Dimension {
    case us(Double, Double)
    case metric(Double, Double)
}

func convert(dimension: Dimension) -> Dimension {
    switch dimension {
    case let .us(length, width):
        return .metric(length * 0.304, width * 0.304)
    }
}

let convertedDimension = convert(dimension: Dimension.metric(5.0, 4.0))
print(convertedDimension)
```

Switch must be exhaustive, consider adding a default clause

```
let anyValue: Any = 7

switch anyValue {
case is Int: print(anyValue + 3)
case let ourValue as Int: print(ourValue + 3)
default: ()
}
```

Binary operator '+' cannot be applied to operands of type 'Any' and 'Int'

Chapter 5: Generics and Associated Type Protocols

```
var name = "John Doe"
var phoneNumber = 5141111111

let (a, b) = swapTwoValues(a: name, b: phoneNumber)
```

Cannot invoke 'swapTwoValues' with an argument list of type '(a: @lvalue String, b: @lvalue Int)'

```
func format(a: String) -> String {
    return "formatted \(a)"
}

func appendStrings(a: String, b: String) -> String {
    return a + b
}

print("The result is: \(calculate(a: "2", b: "2", funcA: appendStrings, funcB: format))")
```

Cannot convert value of type '(String, String) -> String' to expected argument type '(_, _) -> _'

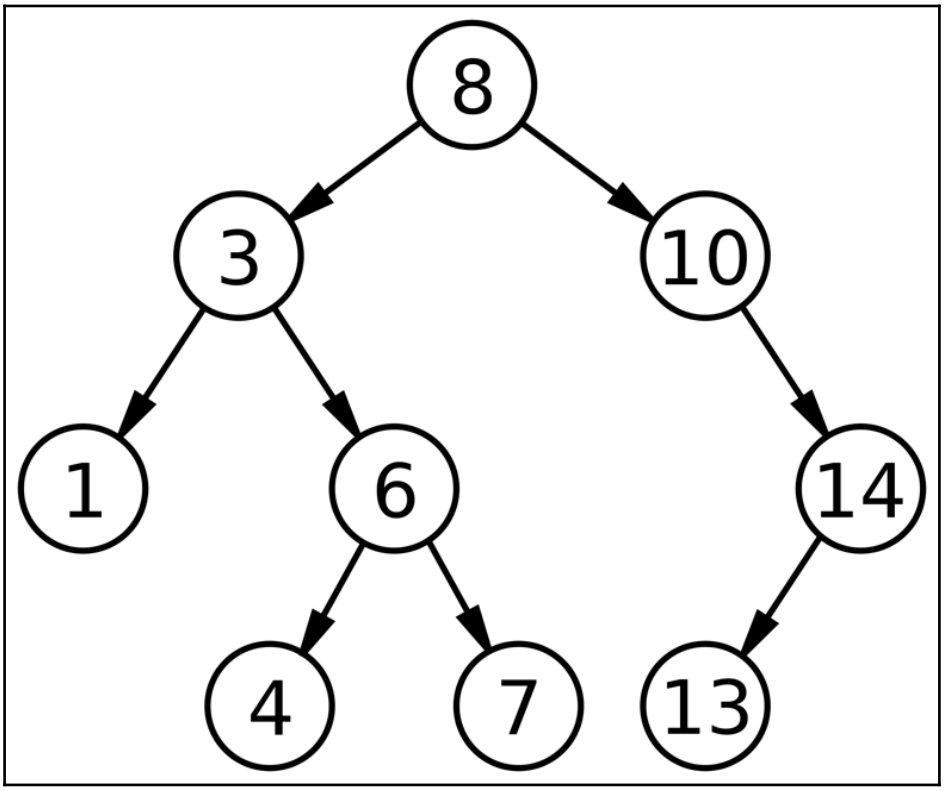
Chapter 7: Dealing with Optionals

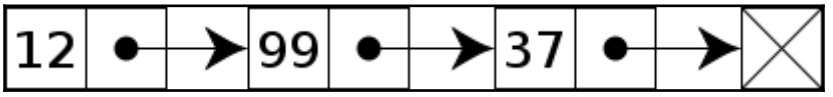
```
var aString: String = "A String literal"
aString = nil // Compile error                    Nil cannot be assigned to type 'String'
```

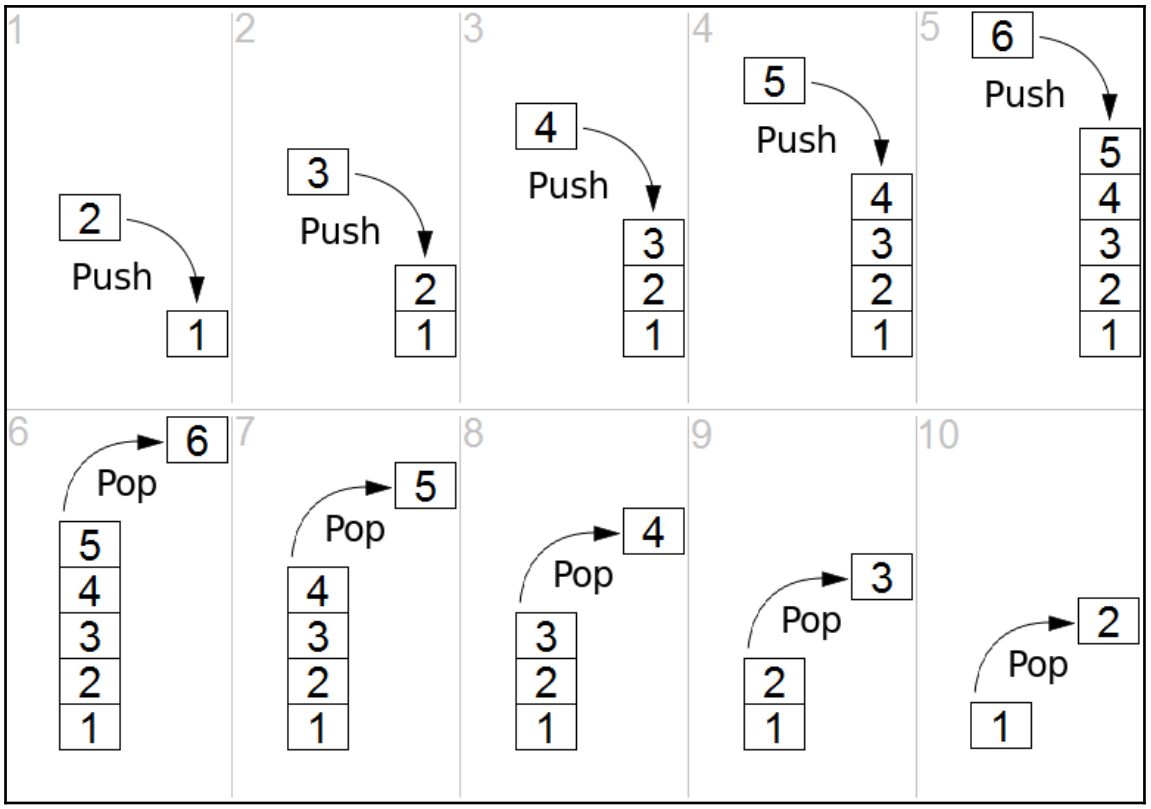
```
let optionalDict: Dictionary<String, Int>? = ["One": 1, "Two": 2, "Three": 3]
let implicitlyUnwrappedDict: Dictionary<String, Int>! = ["One": 1, "Two": 2, "Three": 3]

let firstValue = optionalDict["One"]      Value of optional type 'Dictionary<String, Int>?' not unwrapped; did you mean to use '!' or '?'?
let implictlyUnwrappedFirstValue = implicitlyUnwrappedDict["One"]
```

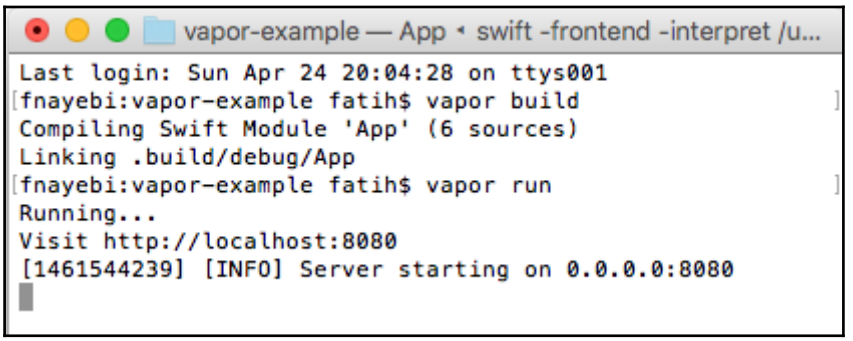
Chapter 8: Functional Data Structures

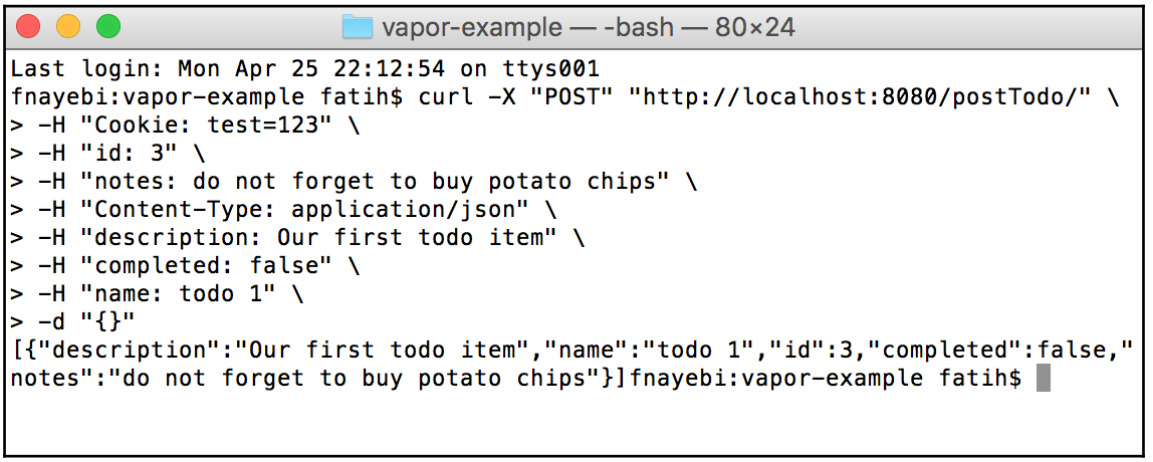


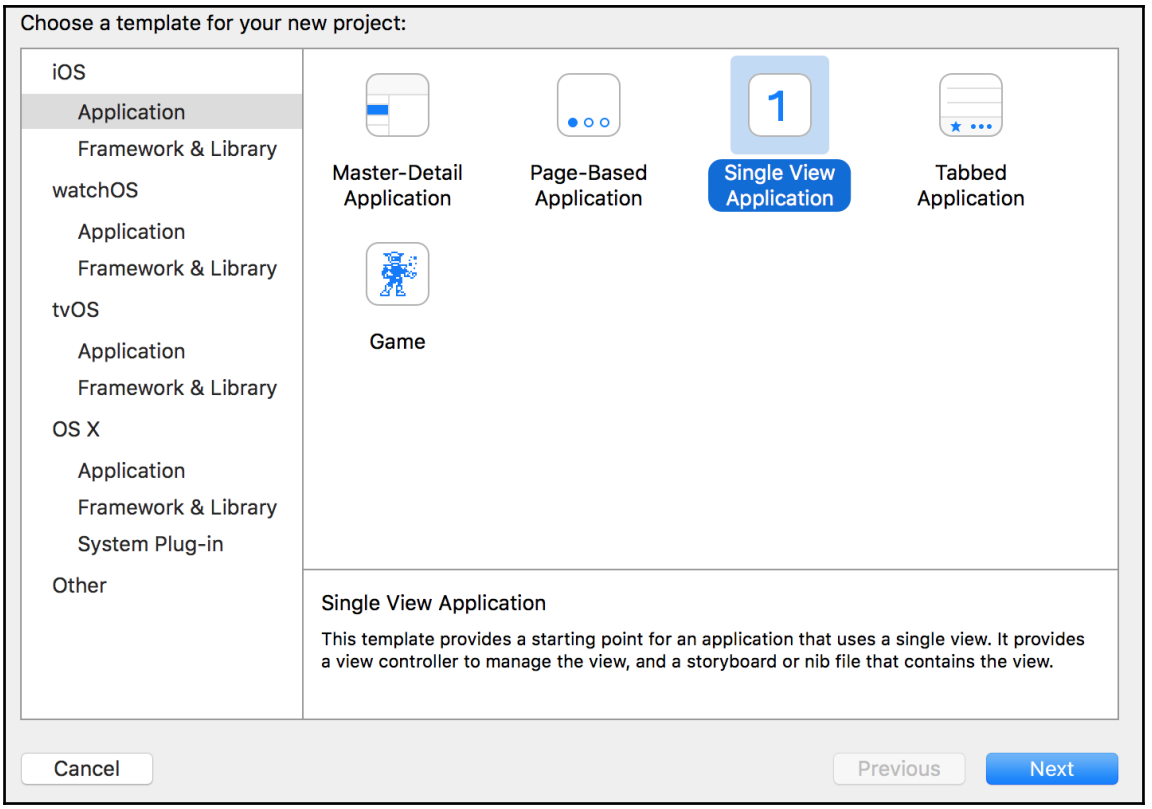


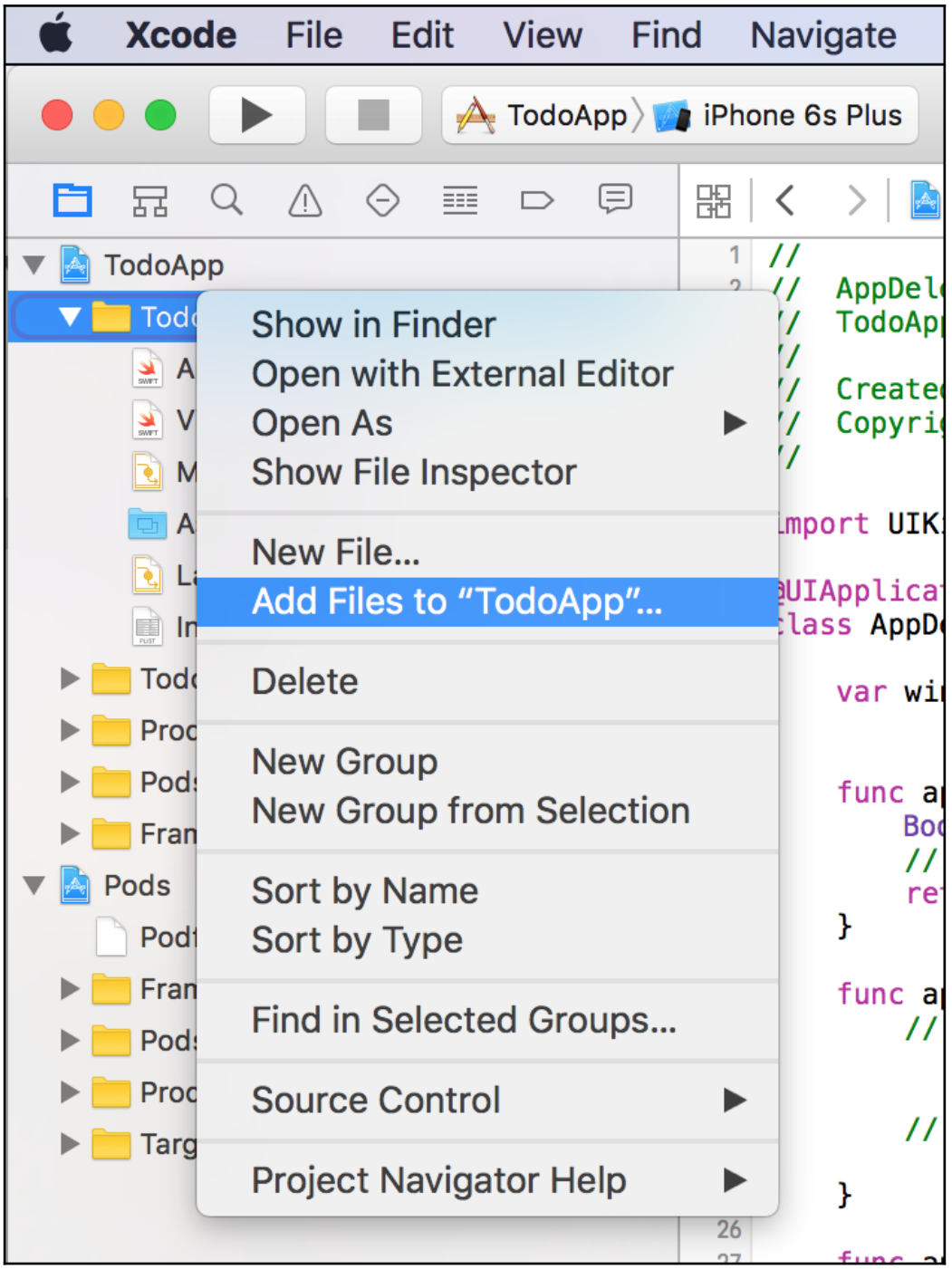

1
2
Push
1
2
3
Push
2
1
3
4
Push
3
2
1
4
5
Push
4
3
2
1
5
6
Push
5
4
3
2
1
6
6
Pop
5
4
3
2
1
7
5
Pop
4
3
2
1
8
4
Pop
3
2
1
9
3
Pop
2
1
10
2
Pop
1

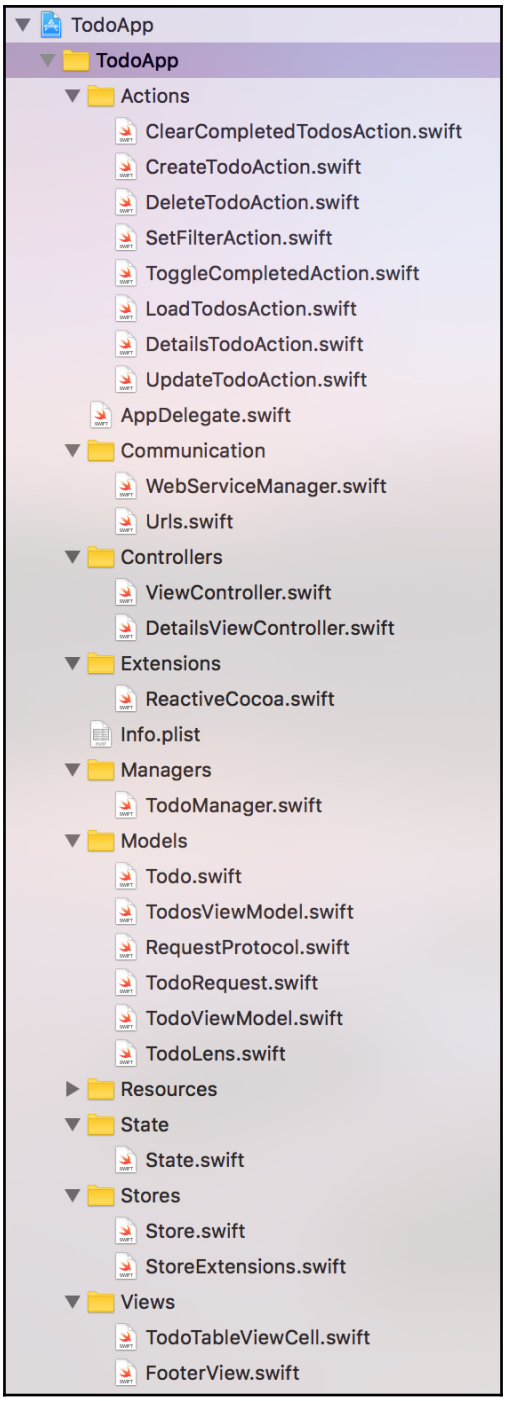
Chapter 11: Case Study - Developing an iOS Application with FP and OOP Paradigms

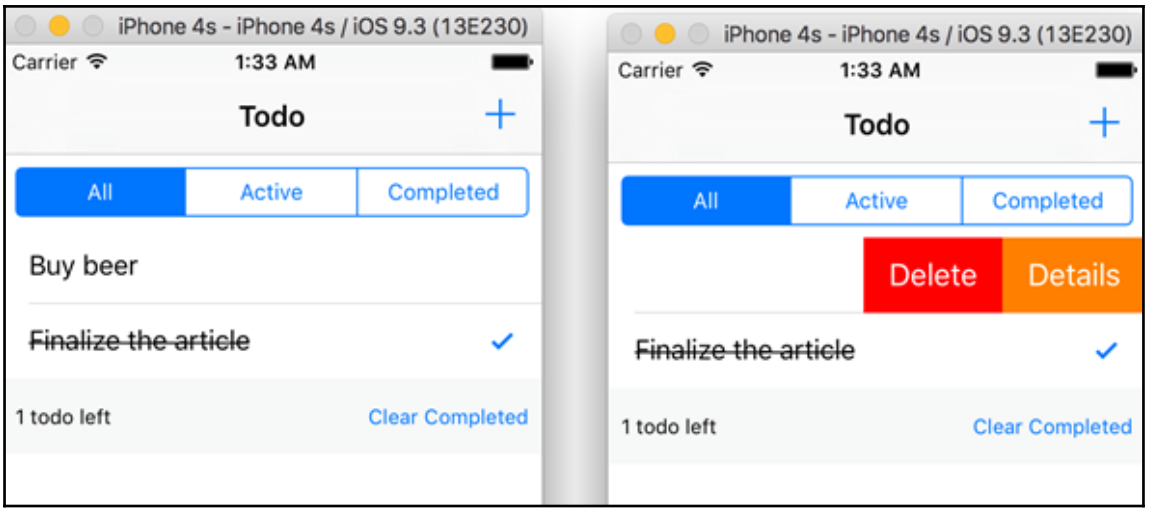


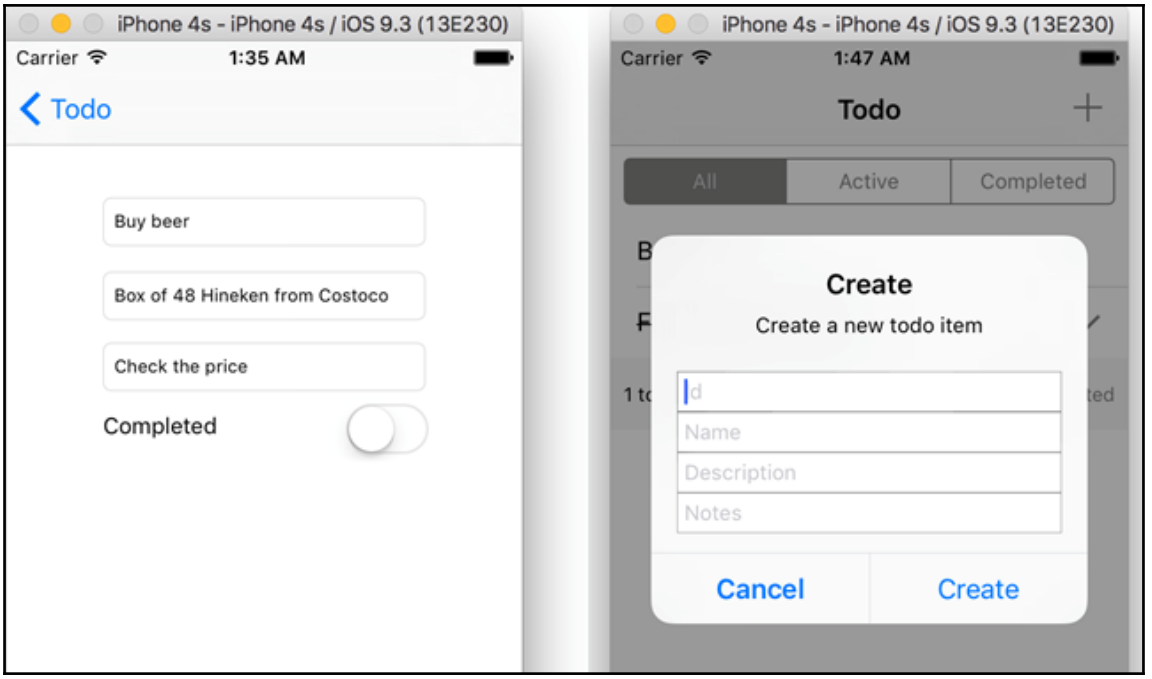


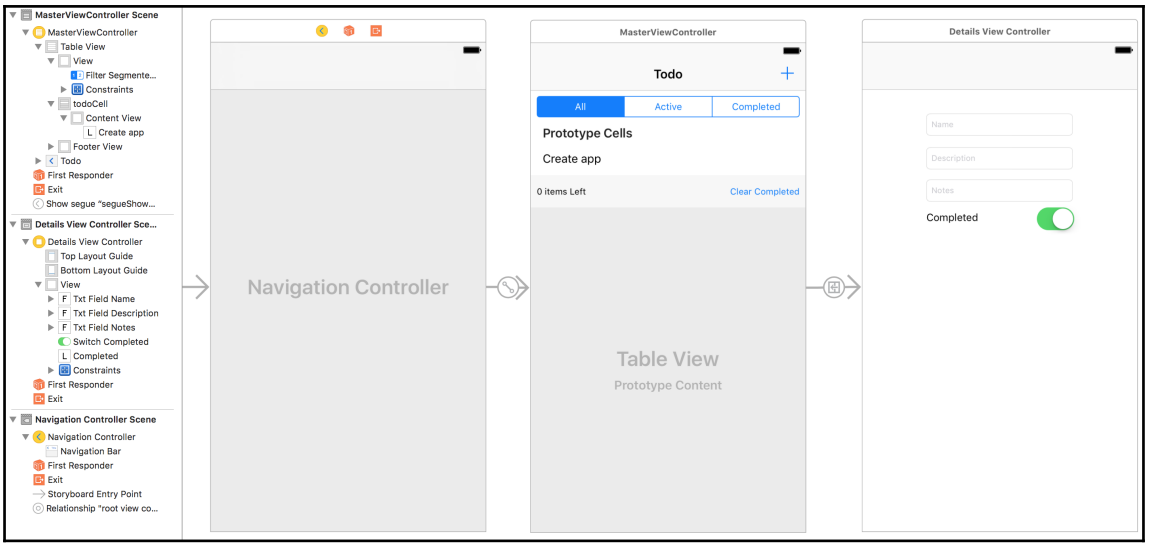

Choose a template for your new project:
iOS
Application
Framework & Library
watchOS
Application
Framework & Library
tvOS
Application
Framework & Library
OS X
Application
Framework & Library
System Plug-in
Other
Master-Detail Application
Page-Based Application
Single View Application
Tabbed Application
Game
Single View Application
This template provides a starting point for an application that uses a single view. It provides a view controller to manage the view, and a storyboard or nib file that contains the view.
Cancel
Previous
Next


Xcode
File
Edit
View
Find
Navigate
TodoApp
iPhone 6s Plus
TodoApp
Show in Finder
Open with External Editor
Open As
Show File Inspector
New File...
Add Files to "TodoApp"...
Delete
New Group
New Group from Selection
Sort by Name
Sort by Type
Find in Selected Groups...
Source Control
Project Navigator Help
Pods


TodoApp
TodoApp
Actions
ClearCompletedTodosAction.swift
CreateTodoAction.swift
DeleteTodoAction.swift
SetFilterAction.swift
ToggleCompletedAction.swift
LoadTodosAction.swift
DetailsTodoAction.swift
UpdateTodoAction.swift
AppDelegate.swift
Communication
WebServiceManager.swift
Urls.swift
Controllers
ViewController.swift
DetailsViewController.swift
Extensions
ReactiveCocoa.swift
Info.plist
Managers
TodoManager.swift
Models
Todo.swift
TodosViewModel.swift
RequestProtocol.swift
TodoRequest.swift
TodoViewModel.swift
TodoLens.swift
Resources
State
State.swift
Stores
Store.swift
StoreExtensions.swift
Views
TodoTableViewCell.swift
FooterView.swift


iPhone 4s - iPhone 4s / iOS 9.3 (13E230)
Carrier
1:33 AM
Todo
All
Active
Completed
Buy beer
Finalize the article
1 todo left
Clear Completed
iPhone 4s - iPhone 4s / iOS 9.3 (13E230)
Carrier
1:33 AM
Todo
All
Active
Completed
Delete
Details
Finalize the article
1 todo left
Clear Completed


iPhone 4s - iPhone 4s / iOS 9.3 (13E230)
Carrier
1:35 AM
Todo
Buy beer
Box of 48 Hineken from Costoco
Check the price
Completed
iPhone 4s - iPhone 4s / iOS 9.3 (13E230)
Carrier
1:47 AM
Todo
All
Active
Completed
Create
Create a new todo item
Name
Description
Notes
Cancel
Create


MasterViewController Scene
MasterViewController
Table View
View
Filter Segmente...
Constraints
todoCell
Content View
Create app
Footer View
Todo
First Responder
Exit
Show segue "segueShow...
Details View Controller Sce...
Details View Controller
Top Layout Guide
Bottom Layout Guide
View
Txt Field Name
Txt Field Description
Txt Field Notes
Switch Completed
Completed
Constraints
First Responder
Exit
Navigation Controller Scene
Navigation Controller
Navigation Bar
First Responder
Exit
Storyboard Entry Point
Relationship "root view co...
Navigation Controller
MasterViewController
Todo
All
Active
Completed
Prototype Cells
Create app
0 items Left
Clear Completed
Table View
Prototype Content
Details View Controller
Name
Description
Notes
Completed