

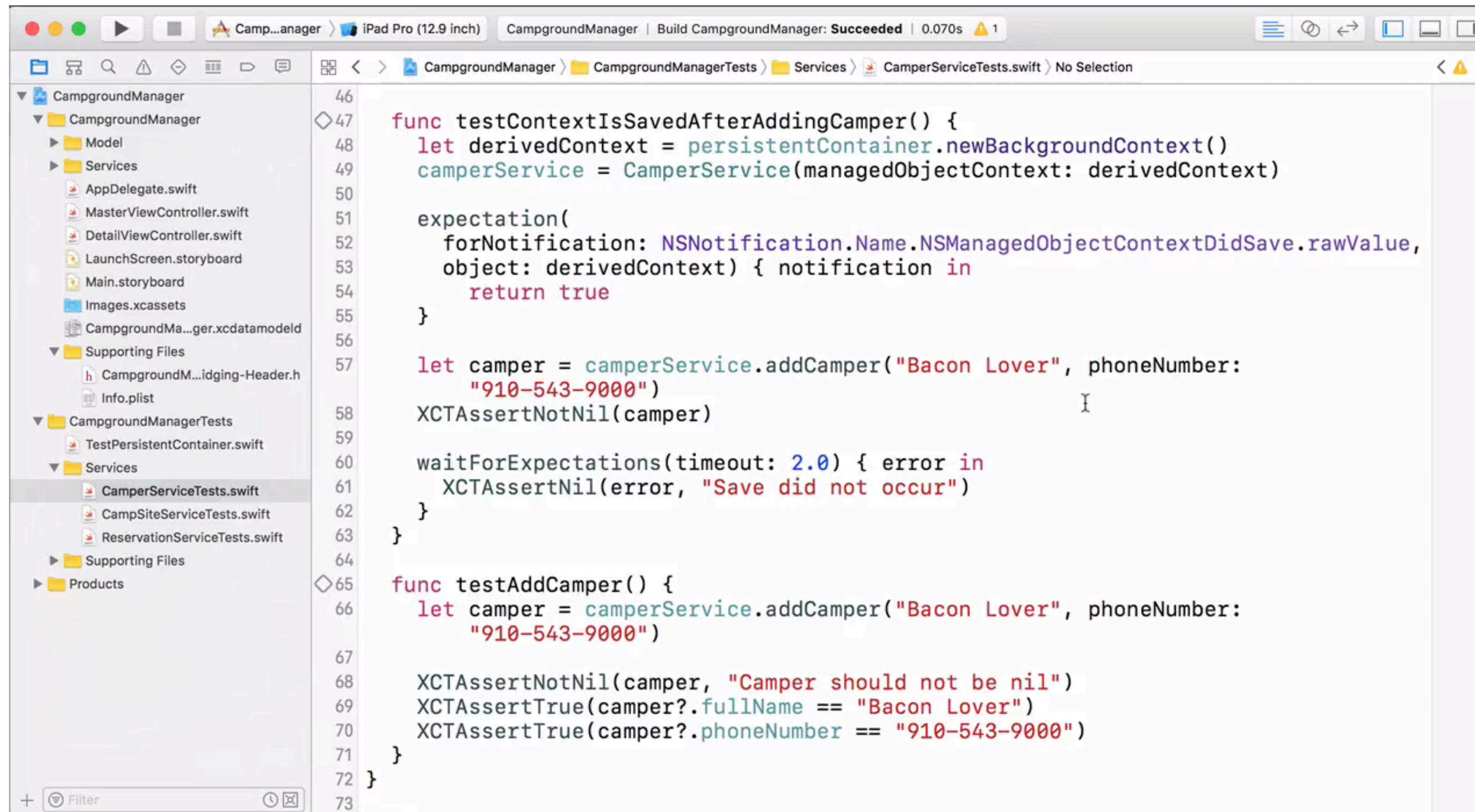
INTERMEDIATE

# CORE DATA



PART 4: UNIT TESTING

# APP PREVIEW



# UNIT TESTING

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- ▶ Put thought into app architecture
- ▶ Add features and refactor with confidence
- ▶ Automated
- ▶ Acts as implicit documentation



# FIRST PRINCIPLES

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Fast

Isolated

Repeatable

Self-Verifying

Timely





# PERSISTENT STORE TYPES

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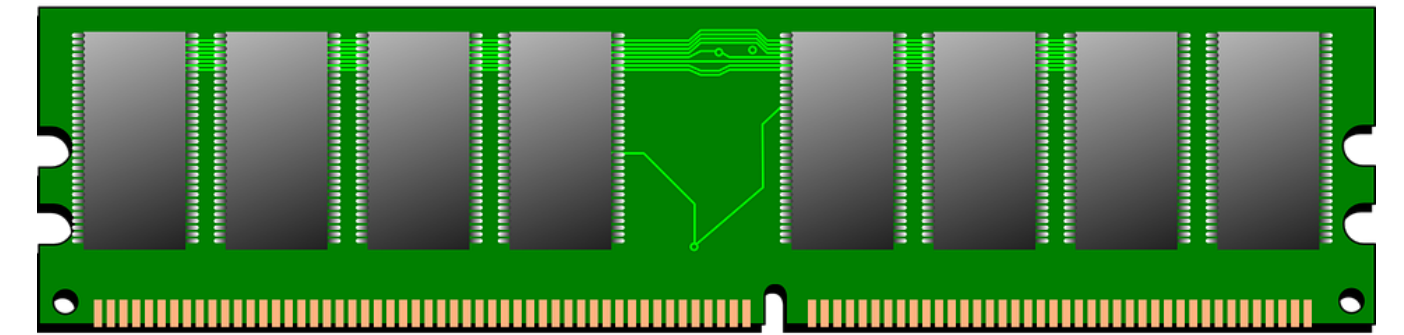
SQLite Store Type



XML Store Type



Binary Store Type



In-Memory Store Type



# DEMO TIME!

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# CHALLENGE TIME!

```
✓ 28 class CampSiteServiceTests: XCTestCase {
29
30     // MARK: Properties
31     var campSiteService: CampSiteService!
32     var persistentContainer: NSPersistentContainer!
33
34     override func setUp() {
35         super.setUp()
36         persistentContainer = NSPersistentContainer.testContainer()
37         campSiteService = CampSiteService(managedObjectContext: persistentContainer.
            viewContext)
38     }
39
40     override func tearDown() {
41         super.tearDown()
42
43         persistentContainer = nil
44         campSiteService = nil
45     }
46
47     ✓ func testRootContextIsSavedAfterAddingCampsite() {
48         let derivedContext = persistentContainer.newBackgroundContext()
49
50         campSiteService = CampSiteService(managedObjectContext: derivedContext )
51
52         expectation(
53             forNotification: NSNotification.Name.NSManagedObjectContextDidSave.rawValue,
54             object: derivedContext) { notification in
55             return true
56         }
```