

SecItemAdd returns error -34018 in xcode 8 in iOS 10 simulator and works in physical device

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Problem:

I was having trouble saving sensitive data in KeyChain while running in Xcode 8 in iOS 10 simulator. The following code returns NO if I run in Simulator and the same code returns YES when running in physical device / iPhone

```
+ (BOOL)setPassword:(NSString *)password forService:(NSString *)serviceName account:(NSString *)account error:(NSError **__autoreleasing *)error {
    SSKeychainQuery *query = [[SSKeychainQuery alloc] init];
    query.service = serviceName;
    query.account = account;
    query.password = password;
    return [query save:error];
}
```

Above code is copied from SSKeyChain.m file

I got the error code -34018 (errSecMissingEntitlement) when started debugging further.

```
#if __IPHONE_4_0 && TARGET_OS_IPHONE
    CFTypeRef accessibilityType = [SSKeychain accessibilityType];
    if (accessibilityType) {
        [query setObject:[__bridge id]accessibilityType forKey:[__bridge id]kSecAttrAccessible];
    }
#endif
    status = SecItemAdd((__bridge CFDictionaryRef)query, NULL);
    if (-34018 != status || errSecSuccess && error != NULL) {
        error = [[self class] errorWithCode:status];
    }
    return (status == errSecSuccess);
}
```

The solution:

Solution is easy and simple: Enable KeyChain Sharing under Capabilities pane in the project editor for your target.

The screenshot shows the Xcode 8 interface with the Capabilities pane selected. A red arrow points to the project icon in the left sidebar, labeled "1. Click on the Xcode project". Another red arrow points to the "Capabilities" tab in the top toolbar, labeled "2". A third red arrow points to the "Keychain Sharing" toggle switch, which is currently turned off, labeled "3. Toggle this switch". The Keychain Sharing section includes the text: "Allows this application to share passwords from its keychain with other applications made by your team." and two bullet points: "• Add the Keychain Sharing entitlement to your entitlements file" and "• Add the Keychain Sharing feature to your App ID."

tags : ios, keychain, secitemadd, simulator, xcode