

RealmStudioSwift

How to use RealmStudio with Swift?

26-08-2023

INTRODUCTION REALM STUDIO

- 1. Install Realm**
- 2. Add data to DB**
- 3. Fetch data from DB**
- 4. Edit data from DB**
- 5. Delete Data from DB**
- 6. Update schemaVersion**

1. INSTALL REALM

- Create podfile ==> pod init
- Add Realm as Dependency in podfile
- Install Dependency ==> pod install

Detail install realm

<https://www.mongodb.com/docs/realm/sdk/swift/install/>

Add Realm as dependency podfile

Sophearth Chhan

Sat 11:47 AM

platform : IOS

target 'MyRealmProject' do

Comment the next line if you don't want to use dynamic frameworks
use_frameworks!

Pods for MyRealmProject
pod 'RealmSwift'

end

Delete



2. ADD DATA TO DB

- import RealmSwift
- Create class for store data local (FamilyModel and MemberFamilyModel)

```
import RealmSwift

class FamilyModel: Object {
    @Persisted(primaryKey: true) var familyId: ObjectId
    @Persisted var familyName: String = ""
    @Persisted var members = List<MemberIFamilyModel>() // need the same "members"
}

class MemberIFamilyModel: Object{
    @Persisted(originProperty: "members") var assignee: LinkingObjects<FamilyModel>

    @Persisted(primaryKey: true) var personId: ObjectId
    @Persisted var name: String = ""
    @Persisted var age: Int = 0
    @Persisted var gender: String = ""
}
```

```
import RealmSwift|

class RealmStudio: UIViewController{
    var realm = try! Realm()
    let familyModel = FamilyModel()

    override func viewDidLoad() {
        super.viewDidLoad()
        title = "Family"
        view.backgroundColor = .white

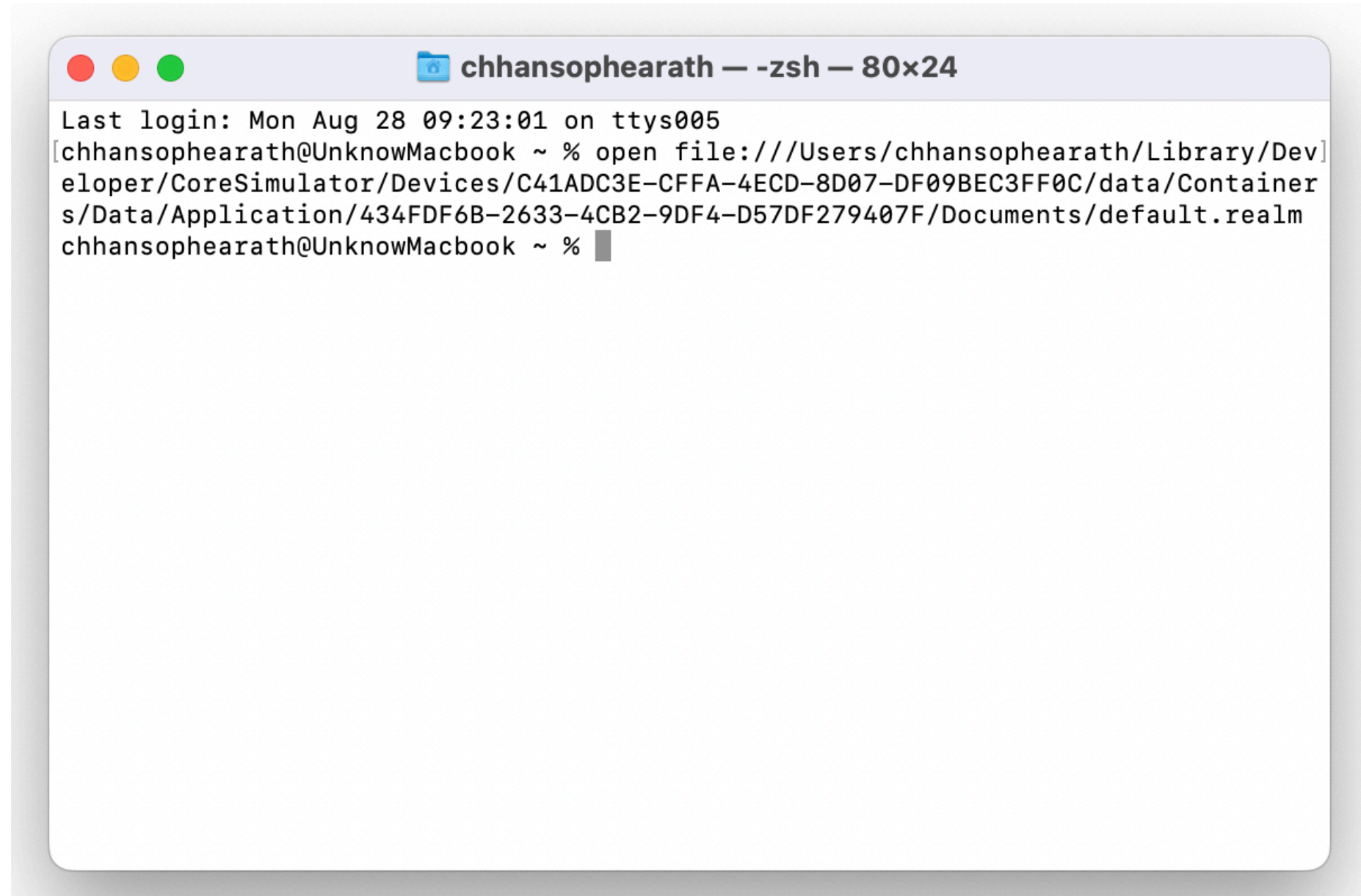
        // MARK: Add data to DB
        try! realm.write {
            familyModel.familyName = "family A"
            realm.add(familyModel)
        }

        //MARK: URL view data in realm studio
        print("filePathRealmSwift: \(Realm.Configuration.defaultConfiguration.fileURL!)")
    }
}
```


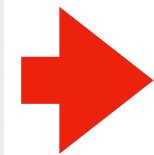
យើងបានចង្អុល **field familyName = “family A”** ក្នុង **DB**

View data in Realm Studio

Copy URL filePathRealmSwift: ដែលបានត្រឹមត្រូវប្រើ command open and then past URL



```
chhansophearath — -zsh — 80x24
Last login: Mon Aug 28 09:23:01 on ttys005
[chhansophearath@UnknowMacbook ~ % open file:///Users/chhansophearath/Library/Developer/CoreSimulator/Devices/C41ADC3E-CFFA-4ECD-8D07-DF09BEC3FF0C/data/Containers/Data/Application/434FDF6B-2633-4CB2-9DF4-D57DF279407F/Documents/default.realm
chhansophearath@UnknowMacbook ~ %
```



Enter a query in Realm Query Language (RQL) to filter the list

familyId objectId (Primary Key)	familyName string	members List<MemberIFamilyModel>
64ec15a013ff1056764023c3	family A	0

3. Fetch data from DB

```
import RealmSwift

class RealmStudio: UIViewController{
    var realm = try! Realm()
    let familyModel = FamilyModel()

    override func viewDidLoad() {
        super.viewDidLoad()
        title = "Family"
        view.backgroundColor = .white

        //MARK: Fetch data from DB
        let fetchData = realm.objects(FamilyModel.self)

        //MARK: URL view data in realm studio
        print("filePathRealmSwift: \(Realm.Configuration.defaultConfiguration.fileURL!)" )
    }
}
```

```
print(listStore[0].familyName)
```

ប្រសិនបើយើងពិនិត្យបែបនេះវានឹងបង្ហាញ family A ពីព្រោះយើងបាន
បញ្ចូលវាចូលក្នុង DB នៃ index first

4. Edit data from DB

```
import RealmSwift

class RealmStudio: UIViewController{
    var realm = try! Realm()
    let familyModel = FamilyModel()

    override func viewDidLoad() {
        super.viewDidLoad()
        title = "Family"
        view.backgroundColor = .white

        //MARK: Fetch data from DB
        let fetchData = realm.objects(FamilyModel.self)

        //by index [0]
        let id = fetchData[0].familyId

        do {
            // Fetch the fetchData you want to edit by its id of index
            if let family = realm.object(ofType: FamilyModel.self, forKey: id ) {
                // Perform edits
                try realm.write {
                    family.familyName = "Family ABCDEF"
                }
            }
        } catch {
            print(" // Handle error")
        }

        //MARK: URL view data in realm studio
        print("filePathRealmSwift: \(Realm.Configuration.defaultConfiguration.fileURL!)" )
    }
}

// MARK: URL view data in realm studio
print("filePathRealmSwift: \(Realm.Configuration.defaultConfiguration.fileURL!)" )
// MARK: URL view data in realm studio
```

យើងបានកែប្រែ family A ទៅជា Family ABCDEF in DB

Enter a query in Realm Query Language (RQL) to filter the list		
familyId objectId (Primary Key)	familyName string	members List<MemberFamilyModel>
64ec15a013ff1056764023c3	Family ABCDEF	0

5. Delete Data from DB

```
import RealmSwift

class RealmStudio: UIViewController{
    var realm = try! Realm()
    let familyModel = FamilyModel()

    override func viewDidLoad() {
        super.viewDidLoad()
        title = "Family"
        view.backgroundColor = .white

        //MARK: Fetch data from DB
        let fetchData = realm.objects(FamilyModel.self)

        //by index [0]
        let id = fetchData[0].familyId

        do {
            // Fetch the fetchData you want to delete by its id of index
            if let family = realm.object(ofType: FamilyModel.self, forKey: id ) {
                // Perform edits
                try realm.write {
                    realm.delete(family)
                }
            }
        } catch {
            print(" // Handle error")
        }

        //MARK: URL view data in realm studio
        print("filePathRealmSwift: \(Realm.Configuration.defaultConfiguration.fileURL!)" )
    }
}

//MARK: URL view data in realm studio
print("filePathRealmSwift: \(Realm.Configuration.defaultConfiguration.fileURL!)" )
```

យើងបានលុប Family ABCDEF ចេញពី DB

realm/Library/Developer/CoreSimulator/Devices/C41ADC3E-CFFA-4EED-8D07-DF09BEC3FF0C/data/Containers/Data/Application/A9CFB447-D6F6-4E...

Enter a query in Realm Query Language (RQL) to filter the list		
familyId objectId (Primary Key)	familyName string	members List<MemberFamilyModel>

6.Update Data in DB (schemaVersion)

```
import RealmSwift

class FamilyModel: Object {
    @Persisted(primaryKey: true) var familyId: ObjectId
    @Persisted var familyName: String = ""
    @Persisted var members = List<MemberIFamilyModel>() // need the same "members"
}

class MemberIFamilyModel: Object{
    @Persisted(originProperty: "members") var assignee: LinkingObjects<FamilyModel>

    @Persisted(primaryKey: true) var personId: ObjectId
    @Persisted var name: String = ""
    @Persisted var age: Int = 0
    @Persisted var gender: String = ""
    @Persisted var email: String = "" // New field email
}
```

នៅពេលយើងបន្ថែម new field យើងត្រូវ update version វា

```
import RealmSwift
```

```
class RealmStudio: UIViewController{
```

```
    var realm: Realm!
```

```
    let familyModel = FamilyModel()
```

```
    let newSchemaVersion: UInt64 = 2
```

```
    override func viewDidLoad() {
```

```
        super.viewDidLoad()
```

```
        title = "Family"
```

```
        view.backgroundColor = .white
```

```
        // MARK: Use for udate version bd and edit field mane
```

```
        let config = Realm.Configuration(
```

```
            schemaVersion: newSchemaVersion, // Increment this value whenever schema changes
```

```
            migrationBlock: { migration, oldSchemaVersion in
```

```
                }
```

```
        )
```

```
        do {
```

```
            realm = try Realm(configuration: config)
```

```
            try! realm.write {
```

```
            }
```

```
        } catch let error as NSError {
```

```
            print("Error: \(error.localizedDescription)")
```

```
        }
```

```
        //MARK: URL view data in realm studio
```

```
        print("filePathRealmSwift: \(Realm.Configuration.defaultConfiguration.fileURL!)" )
```

```
    }
```

```
}
```

បានកែប្រែ

បញ្ចូលបន្ថែម

បញ្ចូលបន្ថែម

បញ្ចូលបន្ថែម

OldVersion

earath/Library/Developer/CoreSimulator/Devices/C41ADC3E-CFFA-4ECD-8D07-DF09BEC3FF0C/data/Containers/Data/Application/A9CFB447-D6FB-4BFB-A6FB-0

Enter a query in Realm Query Language (RQL) to filter the list ?

personId objectId (Primary Key)	age int	gender string	name string
---	-------------------	-------------------------	-----------------------

NewVersion បានបន្ថែម Field email

gender

Enter a query in Realm Query Language (RQL) to filter the list ? Create MemberIfamily

personId objectId (Primary Key)	age int	gender string	name string	email string
---	-------------------	-------------------------	-----------------------	------------------------

ប្រសិនបើយើងចង់ប្តូរ name -> fullName យើងគ្រាន់តែចូលទៅ newSchemaVersion +1 បន្ថែមជាការស្រាវជ្រាវ

```
import RealmSwift

class FamilyModel: Object {
    @Persisted(primaryKey: true) var familyId: ObjectId
    @Persisted var familyName: String = ""
    @Persisted var members = List<MemberIFamilyModel>() // need the same "members"
}

class MemberIFamilyModel: Object{
    @Persisted(originProperty: "members") var assignee: LinkingObjects<FamilyModel>

    @Persisted(primaryKey: true) var personId: ObjectId
    @Persisted var fullName: String = "" //Edit field name to fullname
    @Persisted var age: Int = 0
    @Persisted var gender: String = ""
    @Persisted var email: String = "" // New field email
}
```



```

1 import RealmSwift
2
3
4 class RealmStudio: UIViewController{
5     var realm: Realm!
6     let familyModel = FamilyModel()
7
8     let newSchemaVersion: UInt64 = 3
9
10    override func viewDidLoad() {
11        super.viewDidLoad()
12        title = "Family"
13        view.backgroundColor = .white
14
15        // MARK: Use for update version and edit field name
16        let config = Realm.Configuration(
17            schemaVersion: newSchemaVersion, // Increment this value whenever schema changes
18            migrationBlock: { migration, oldSchemaVersion in
19
20            }
21        )
22
23        do {
24            realm = try Realm(configuration: config)
25            try! realm.write {
26
27            }
28
29        } catch let error as NSError {
30            print("Error: \(error.localizedDescription)")
31        }
32
33        //MARK: URL view data in realm studio
34        print("filePathRealmSwift: \(Realm.Configuration.defaultConfiguration.fileURL!)")
35    }
36 }

```

ពីមុន ២ ហើយយើងកែវាមក ៣ ជាការស្រាវជ្រាវ

Enter a query in Realm Query Language (RQL) to filter the list				
email	personId	age	gender	fullName
objectId (Primar...	int	string	string	string