스위프트를 이용한 아이폰

앱 개발

시작하기

2020년 2월



```
월 화 수 목

3일 4일 5일 6일

[--Swift 초급 Day!--]

[ --Swift 중급 Day!--]
```

```
let 초급 = "3일-4일(월-화) 오후 1시-4시"
let 중급 = "5일-6일(수-목) 오후 1시-4시"
```

```
let 장소 = "@Mac실습실 (공과대학 5호관4층 414호)"
let 신청방법 = "https://qrgo.page.link/HETGH"
```



Day #3 - 메모장 만들기

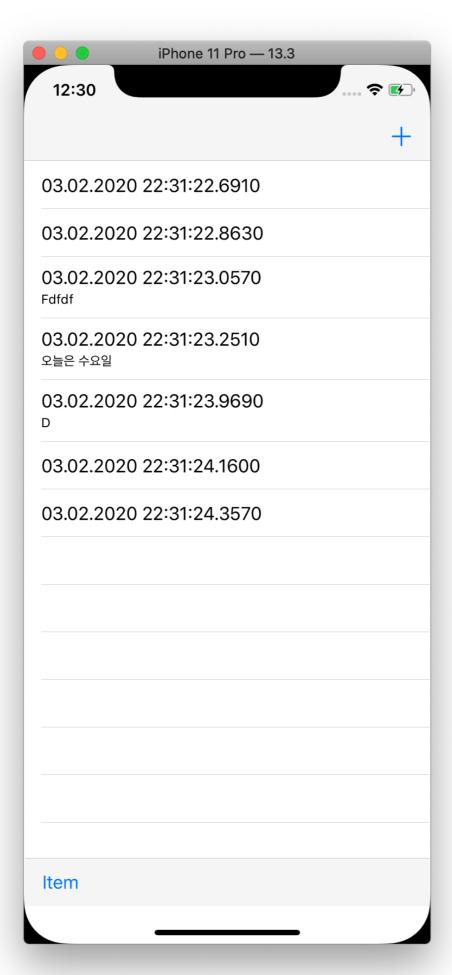
오늘의 목표

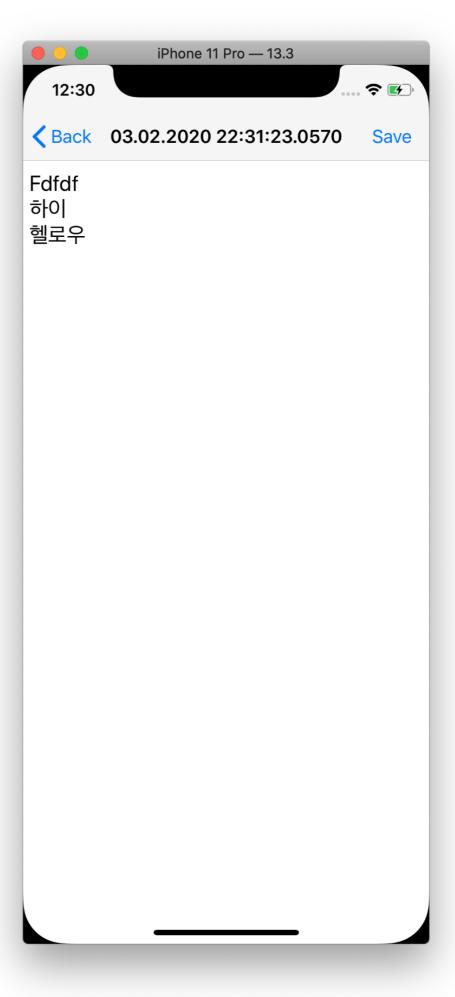
- 메모장 만들기
 - Navigation Controller (화면전환)
 - UserDefaults (데이터 저장)
 - UITableViewController
 - UITextView
 - Keyboard Actions ...

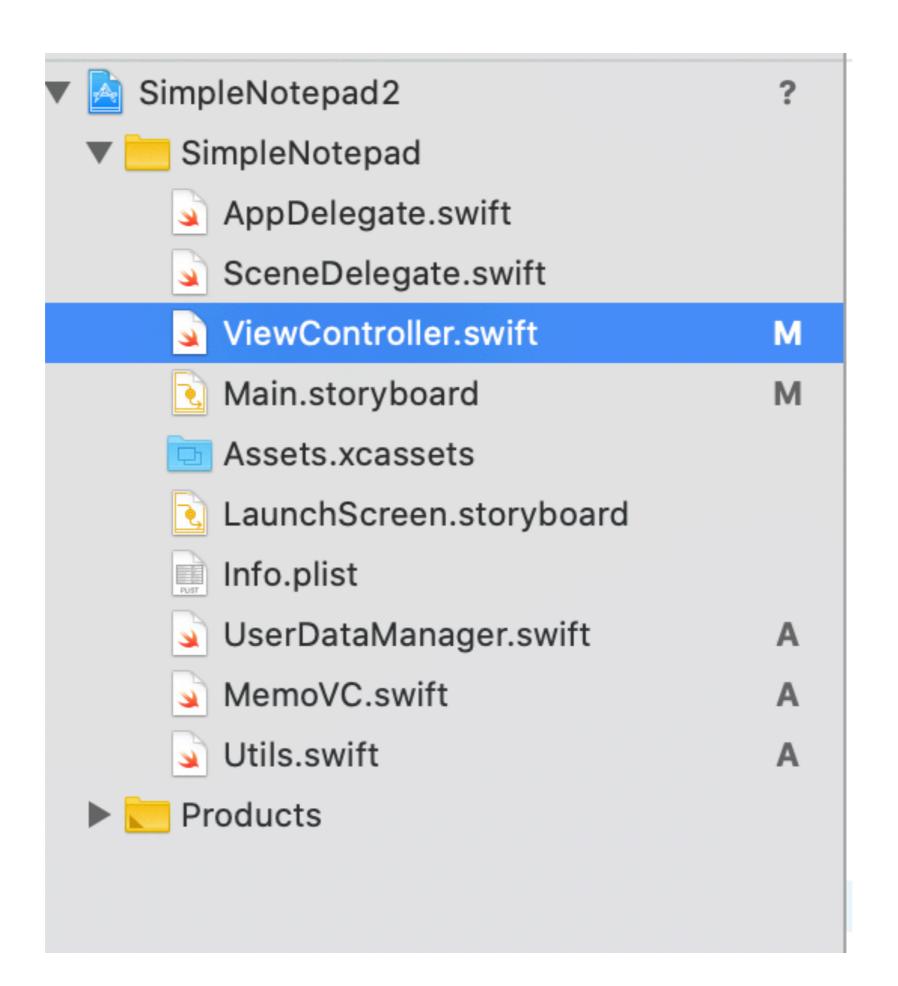
Level #2

Level #2 요구사항

- 데이터 저장 기능 적용
 - 각 메모의 Key: 생성된 TimestampString
- 테이블에서 생성된 날짜 선택 시, 메모 작성으로 이동
- 메모 화면에서 우측 상단에 저장 버튼 추가
- 메모 저장





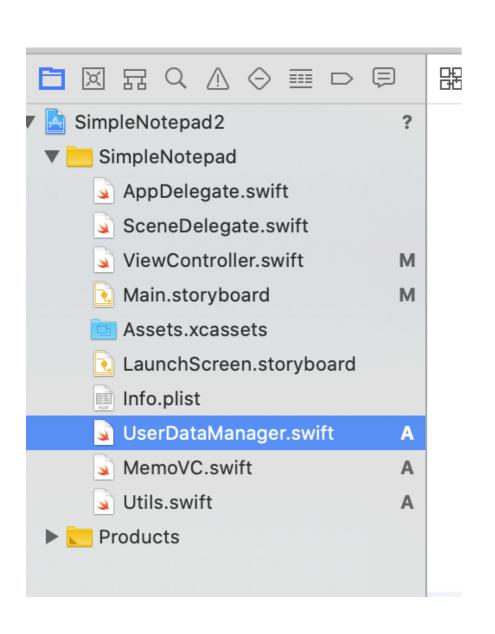


UserDefaults

```
iet list = UserDefaults.standard.value(forKey: key) as? [TimeInterval] {
                                                                                                                        No Selecti
  UserDefaults.standard.va
                                           • Value of type 'UserDefaults' has no member 'va'
                    Any? value(forKey: String)
  ret
      М
                     Any? <a href="mailto:value">value</a>(forKeyPath: String)
eturn
                    Void validateValue(ioValue: AutoreleasingUnsafeMutablePointer<AnyObject?>, forKey: String) throws
      M
                    Any? value(forUndefinedKey: String)
                    Void validateValue(ioValue: AutoreleasingUnsafeMutablePointer<AnyObject?>, forKeyPath: String) throws
                 String? accessibility Value
getMer
let
                     Int hashValue
```

1. 데이터 저장 추가하기

UserDataManager 클래스 작성



```
8
   import UIKit
10
   class UserDataManager: NSObject {
11
12
13
        static let LIST_KEY_DEFAULT = "default"
14
15
        static let shared = UserDataManager()
16
        private override init () {
17
            super.init()
18
            // Do Some Code Here
19
        }
20
21
```

리스트 저장 함수 추가

```
}
 20
 21
          func saveList(with key:String, list:[TimeInterval])->Bool {
 22
               UserDefaults.standard.set(list, forKey: key)
 23
 24
               return UserDefaults.standard.synchronize()
 25
          }
 26
 27
27
       func getList(with key:String)->[TimeInterval] {
28
           if let list = UserDefaults.standard.value(forKey: key) as? [TimeInterval] {
29
              return list
30
31
          return []
32
33
       }
34
```

```
10
   class ViewController: UIViewController {
11
12
       var list:[TimeInterval] = []
13
\bigcirc
       @IBOutlet var table: UITableView!
15
16
       override func viewDidLoad() {
17
            super.viewDidLoad()
18
            // Do any additional setup after loading the view.
19
20
            list = UserDataManager.shared.getList(with: UserDataManager.LIST_KEY_DEFAULT)
21
22
        }
23
```

```
24
       @IBAction func addNewMemo(_ sender: Any) {
           let newtime = Utils.shared.makeNewDate()
           list.append(newtime)
27
           if UserDataManager.shared.saveList(with: UserDataManager.LIST_KEY_DEFAULT, list: list) {
28
                self.table.reloadSections(IndexSet(0...0), with: .automatic)
29
30
       }
31
32
       override func viewWillAppear(_ animated: Bool) {
33
            super.viewWillAppear(animated)
34
           table.reloadData()
35
       }
36
37
```

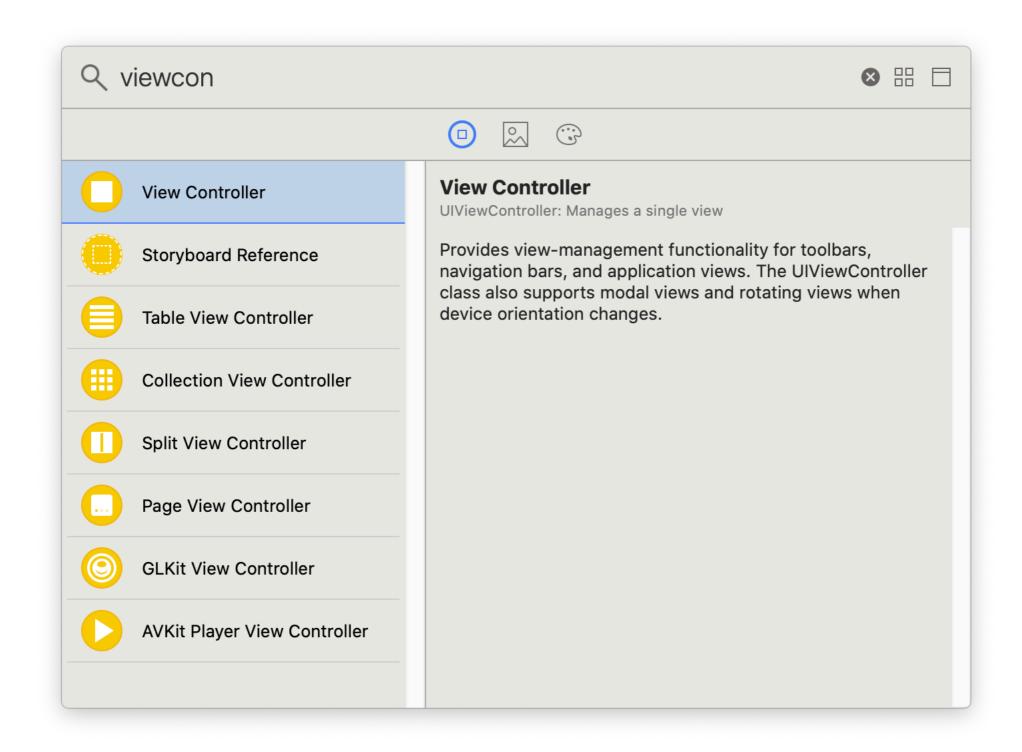
37

```
38
       // Step 2
39
       func requestRemoveItem(at:Int) {
40
           let alert = UIAlertController(title: "삭제요청", message: "삭제하시겠습니까?", preferredStyle: .alert)
41
           let deleteAction = UIAlertAction(title: "삭제", style: .destructive) { (action) in
42
               //
43
               self.list.remove(at: at)
44
45
               if UserDataManager.shared.saveList(with: UserDataManager.LIST_KEY_DEFAULT, list: self.list) {
46
                    self.table.reloadSections(IndexSet(0...0), with: .automatic)
47
               }
48
49
           let cancelAction = UIAlertAction(title: "취소", style: .cancel, handler: nil)
50
51
           alert.addAction(deleteAction)
52
           alert.addAction(cancelAction)
53
54
           self.present(alert, animated: true, completion: nil)
55
56
       }
```

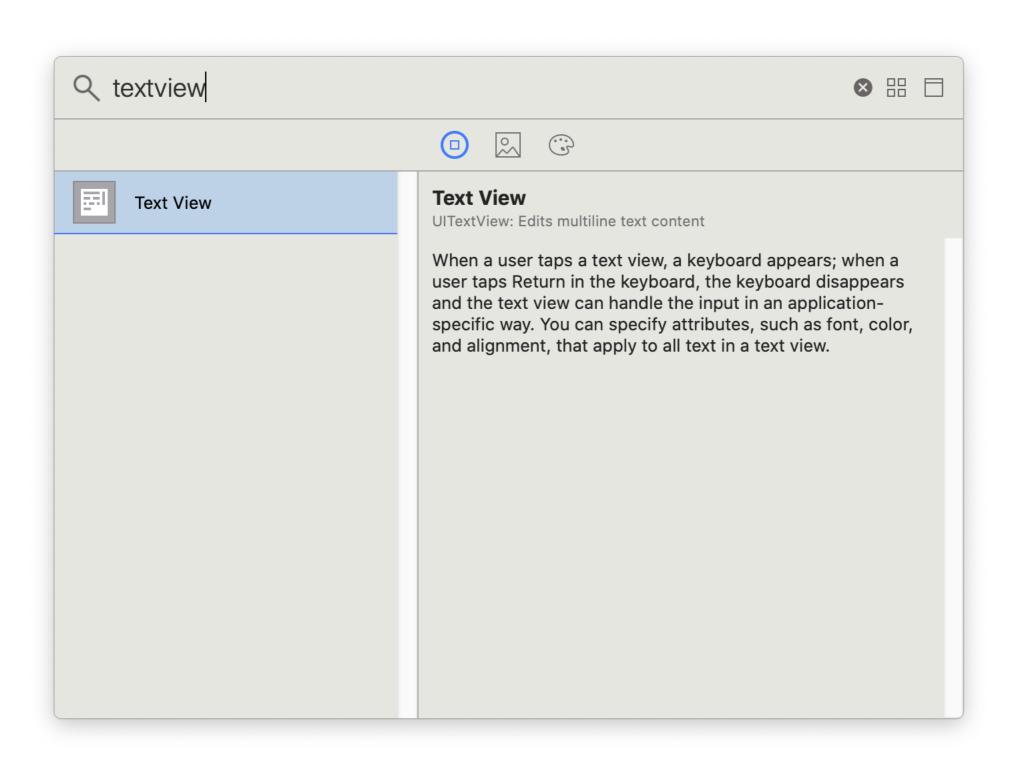
```
85
        func tableView(_ tableView: UITableView, editActionsForRowAt indexPath: IndexPath) ->
86
                                                                                                      \mathbf{A}
            [UITableViewRowAction]? {
            let deleteAction = UITableViewRowAction(style: .destructive, title: "삭제") {
                                                                                                      87
                 (action, indexPath) in
                 ///* step 1
88
                  self.list.remove(at: indexPath.row)
89
                  //self.table.reloadSections(IndexSet(0...0), with: .automatic)
90
                  if UserDataManager.shared.saveList(with: UserDataManager.LIST_KEY_DEFAULT, list:
91
                      self.list) {
                      self.table.reloadSections(IndexSet(0...0), with: .automatic)
92
93
                  //*/
94
95
96
97
                // Step 2
98
                 //self.requestRemoveItem(at: indexPath.row)
99
            }
100
101
            return [deleteAction]
102
        }
103
```

2. 메모 화면 추가하기

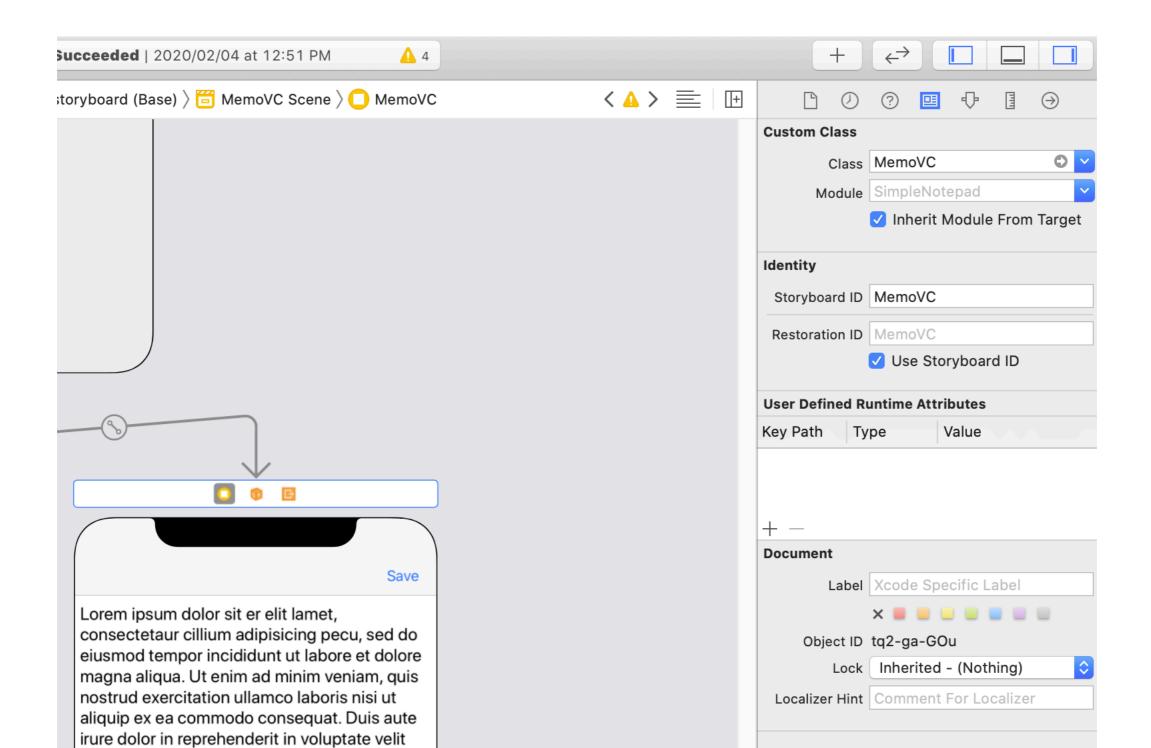
MemoVC.swift 추가



MemoVC.swift 에 UITextView 추가



MemoVC 클래스 연결



Outlet 연결

3. 메모 저장 기능 추가

UserDataManager.swift 수정

```
35
       func getMemo(with timeStampString:String)->String {
36
            if let memo = UserDefaults.standard.value(forKey: timeStampString) as? String {
37
                return memo
38
39
40
            return ""
41
       }
42
43
       func saveMemo(with timeStampStr:String, memo:String)->Bool {
44
            UserDefaults.standard.set(memo, forKey: timeStampStr)
45
            return UserDefaults.standard.synchronize()
46
47
   }
48
49
```

기존 저장된 메모 불러오는 코드 작성

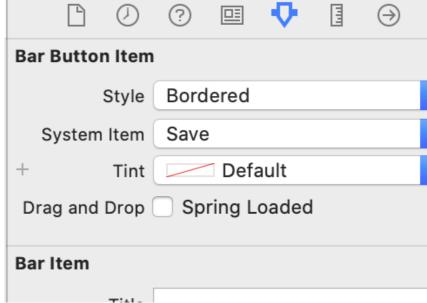
```
private func setMemoText() {
    let str = Utils.shared.timeString(time: timestamp)
    self.title = str
    let txt = UserDataManager.shared.getMemo(with: str)
    self.tvMemoInput.text = txt
}
```

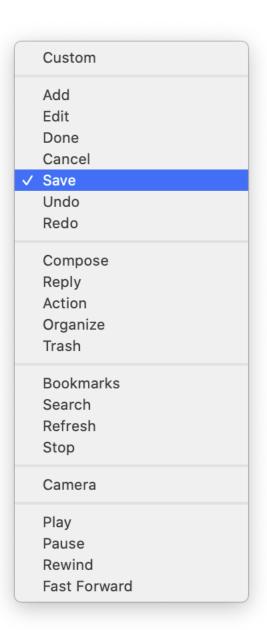
화면 켜질때, 메모 불러오는 코드 작성

```
8
   import UIKit
10
   class MemoVC: UIViewController {
11
12
\bigcirc
        @IBOutlet var tvMemoInput:UITextView!
        var timestamp:TimeInterval!
14
15
        override func viewDidLoad() {
16
            super.viewDidLoad()
17
18
            // Do any additional setup after loading the view.
19
20
            setMemoText()
```

저장버튼 추가







저장버튼 연결

```
@IBAction func doSaveMemo(_ sender: Any) {
    let str = Utils.shared.timeString(time: timestamp)
    if UserDataManager.shared.saveMemo(with: str, memo: tvMemoInput.text) {
        self.navigationController?.popViewController(animated: true)
    }
}
```

Level #3 Extra..

기보드 관련 코드 추가

기보드 관련 코드 추가

JJ

```
56
       @objc func keyboardWillShow(_ notification: Notification) {
57
           guard let keyboardFrame =
58
                (notification.userInfo?[UIResponder.keyboardFrameEndUserInfoKey] as?
               NSValue)?.cgRectValue else { return }
59
           let contentInsets = UIEdgeInsets(top: 0.0, left: 0.0, bottom:
60
                keyboardFrame.height, right: 0.0)
           tvMemoInput.contentInset = contentInsets
61
           tvMemoInput.scrollIndicatorInsets = contentInsets
62
63
       }
64
65
       // 이 메서드는 UIKevboardWillHide 노티피케이션을 받으면 호출된다.
66
       @objc func keyboardWillHide(_ notification: Notification) {
67
           let contentInsets = UIEdgeInsets.zero
68
           tvMemoInput.contentInset = contentInsets
69
           tvMemoInput.scrollIndicatorInsets = contentInsets
70
71
       }
72 }
73
```

```
8
9
   import UIKit
10
   class MemoVC: UIViewController {
11
12
@IBOutlet var tvMemoInput:UITextView!
       var timestamp:TimeInterval!
14
15
       override func viewDidLoad() {
16
            super.viewDidLoad()
17
18
            // Do any additional setup after loading the view.
19
20
            setMemoText()
21
            registerForKeyboardNotifications()
22
23
24
```