## **Create a Web Browser**

### Description

This tutorial covers how to create a simple web browser for iPhone and iPads.

# Prerequisites



### Steps

### **Option 1: Start with starter project (easy level of difficulty)**

- Download starter project. Click link: (https://github.com/ioscourse/MyBrowser---Start/archive/master.zip)
- Once extracted double-click on MyBrowser.xcodeproj
- Steps 1-16 are done in Starter project
- Just observe steps 1-16

# **Option 2: Create Project from scratch (medium level of difficulty)**

- Start with step 1 below
- 1. Start XCode. Click on the botton of the Mac the icon that looks like this >
- 2. Once Started, click File > New Project
- 3. Select Single View Application
- 4. Click Next



## 5. Fill out option screen

Choose options for your new project:

Options: Fill out your screen to mimic below.

Replace 'Organization Name' with your Full Name

Organization Name:

Organization Name:

Chuck Konkol

Organization Identifie:

edu.rockvalleycollege.edu

Bundle Identifie:

edu.rockvalleycollege.edu.MyBrowser

Language:

Swift

Devices:

Universal

Include Uni Tests

Include UI Tests

(and the test of test

- 6. Click Next
- 7. Select Desktop under Favorites



8. Click Create

9. XCode Layout Items (View Only Step)







#### 11. Add code to info, plist to allow website to load in Simulator OR download starter template



### 12. Add Navigation Bar



13. SAVE. [Command] + S

14. Add Search Bar & Search Display Controller. Used to search and show in webbrowser a URL



Eived Space Bar Button Item

#### 15. Add UIWebView & fill area below Search Bar & Search Display Controller



16. Rename Title to reflect you!



17. Select the Assistant Editor (looks like below)



18. Add your name. See comments in code.

```
// 1)Type your fullname in between [ ]
19. Create Outlets. Select object on Storyboard and use [Control] key + mouse drag code view

    UISeachBar: SearchBar (should look like below when added)

     • UIWebView: webview (should look like below when added)
        // 2) Create Outlet for UISearchBar and name it SearchBar
              @IBOutlet weak var SearchBar: UISearchBar!
        // 3) Create Outlet for UIWebView and name it webview
              @IBOutlet weak var webview: UIWebView!
        Create function that allows user to enter in website URL and show in web browser.
20.
  // 4) Create function for SearchBar. See Handout
        func searchBarSearchButtonClicked(SearchBar: UISearchBar){
           SearchBar.resignFirstResponder()
           let url = NSURL(string: "http://\(SearchBar.text!)")
           let request = NSURLRequest(URL: url!)
           webview.loadReguest(reguest)
        }
21. Update ViewDidLoad to load your favorite website when app runs
        override func viewDidLoad() {
            super.viewDidLoad()
            // Do any additional setup after loading the view, typically from a nib.
    // 5) Type in the rest of the http:// with your favorite website. Example: http://rockvalleycollege.ed
            let url = NSURL(string: "http://")
            let request = NSURLRequest(URL: url!)
    // 6) UnComment below line
           // webview.loadRequest(request)
        }
```



22. Click on the **Standard Edito**r icon



23. Add Constraints: Select ViewController

• Select Editor > Resolve Auto Layout Issues > Reset to Suggested Constraints 24. Run app in iPhone 6s Simulator. Product > Run 25.You should see app run successfully like this  $\rightarrow$ 



26. Type in Google.com in searchbar and tap Search

27. You have completed the Hour of Code!

\*

•

1 ant

28. Download completed project:

 Pala na da Ruse - Moure de Nuit prit, de 1938 - Patrice - Sinte Galociernas Stanomer

and a start of the start of the

Greak

1 And all and the second proved as

a che che che espera torra.

S. Grade com

Alle

849 8

https://github.com/ioscourse/MyBrowser---End/archive/master.zip Challenge:

- Install App on iPhone/iPad
- Download Steps:<u>https://dl.dropboxusercontent.com/s/vkubywghmjm8zl5/InstallApps0ni0S.pdf</u>