

Smart Door iOS APP ~ Project Management

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Before starting, you will need to relink the files in Xcode and add references as it is different for all environments. Use this video for reference

<https://www.youtube.com/watch?v=pUAcMrulBGg>



Also, you will need to edit target and build files in Xcode project management. depending on location you will need to update the addresses.

<https://stackoverflow.com/questions/53170403/build-fails-with-command-precompileswiftbridgingheader-failed-with-a-nonzero-ex>

Project is done in Swift 5 for iOS≥ 14.0. For Network Scan Objective C is connected using header files. Please be careful with certification when building project in real device.

Task1: To start the project demo, first please make sure that IP address for fetching data is consistent throughout otherwise after network scan nothing will work. 😊

Files are divided into directories for easy understanding. Shared contains all code while other directories contain system files, you don't need to bother with it. All files contain multiple

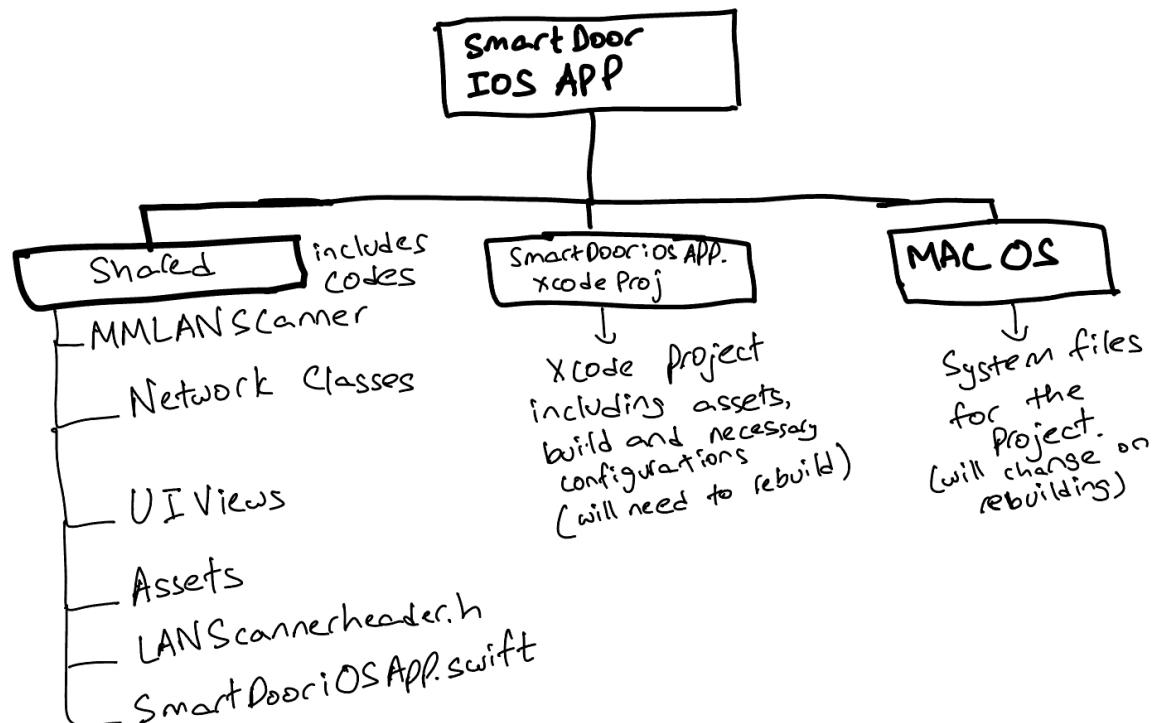
classes called Views in Swift. These Views work together to create a bigger picture. For some tasks, multiple views are in different files for example deviceView and deviceScanView fulfill the scanning and displaying available devices.

If you successfully arrange the project structure, you can easily toggle in between views. otherwise, it might be difficult to find the 'Views in Scope'.

HackingwithSwift is a good resource to understand Swift if it is your first time with iOS development.

Best of luck. Happy Coding. 😊

Project Structure



Code Management

Name: Swift File Name

Associations: Tags

Purpose: Functions performed in each file

Directory: The directory in which the file can be found

Code Management

Name	Associations	Purpose	Directory
<u>Get_Data.swift</u>	Get Data Load Data	Contains multiple functions to get data from server to organize it into user views.	Network Classes
<u>MMLanScanDiscovery.swift</u>	Network Scan Search Device	Pings all IP addresses on network to find and list the smart door lock devices available. Uses the swift package titled "MMLanScan". The package is available in main directory.	Network Classes
<u>MockDataList.swift</u>	Mock Data	Contains mock data for different user views to see the overall UI.	Network Classes
<u>net_class.swift</u>	CustomClass Network Class	A custom class that creates connection with the server to get various data. Used extensively by functions in Get_data.swift file.	Network Classes
<u>DashboardView.swift</u>	Control Centre User Interface	UI view for the dashboard of device. Control the device and access user management and log from here.	UIViews
<u>DeviceView.swift</u>	User Interface View Connected Devices	UI View for seeing all the devices available on the network. Access dashboard or live streaming for each device from here.	UIViews

Name	Associations	Purpose	Directory
<u>DeviceScanView.swift</u>	Network Class User Interface	UI View displayed when scanning the network for all the available devices.	UIViews
<u>LiveStream_View.swift</u>	LiveStream User Interface	UI View for seeing the live streaming for the device. Built using WebView. Edit in case of implementing WEBRTC.	UIViews
<u>UserView_new.swift</u>	User Interface User Management	UI View for seeing, editing and adding new users to be able to access the device.	UIViews
<u>RegisterUser_View.swift</u>	Register User User Interface User Management	UI view for adding new members information like name thumbnail. Accessed through UserView_new.swift	UIViews
<u>LogView_new.swift</u>	Log User Interface	UI View for accessing the entry logs for the device.	UIViews
<u>LandingView.swift</u>	CustomClass	The entry view of device app. needs to be modified.	UIViews
<u>LanScanner.h</u>	Network Scan header	Header file for linking MMScanner to the project.	Shared
<u>SmartDoorIOSApp.swift</u>	CustomClass main	Starting point of the app. The app will load the view provided here.	Shared
<u>SmartDoorIOSApp.xcode</u>	Project Xcode	Xcode Project including assets, builds etc.	Main

Roadmap (Tasks Completed/To Do)

Roadmap

Projects	Type	Status
<u>Make sure all IP address are consistent throughout the get_data.swift</u>	Task	To do
<u>Create better UI for network scan</u>	Task	Complete
<u>Create a userdefault file to save the already scanned devices</u>	Task	To do
<u>Create function to ping devices</u>	Task	Complete
<u>Integrate scanned devices to ui</u>	Epic	Complete
<u>Search devices over a network</u>	Epic	Complete
<u>Integrate toggle buttons for dashboard</u>	Task	Complete
<u>Ask Abhijeet to fix the json responses</u>	Bug	Complete
<u>Bluetooth integration for web connectivity</u>	Task	To do
<u>WEBRTC View for live Streaming</u>	Epic	Complete
<u>Fetch data to integrate data in Views</u>	Task	Complete
<u>Integrate Log List</u>	Epic	Complete
<u>Create Network Class</u>	Task	Complete
<u>Integrate Delete User Function</u>	Task	Complete
<u>Fix bugs in Register User when saving</u>	Task	Complete
<u>Integrate Registered User List</u>	Epic	Complete