Votion App

Project handover plan

Version 1.0

Release history

**Date**

**Version**

**Comment**

**Author**

**(Developer)**

**Approved By**

**(TL)**

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Votion KT Document

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Project handover plan

• Project background

1.1 Client

**Votion is an ever growing ecosystem of fully versatile WIFI and Bluetooth products compatible with both the Apple HomeKit, Alexa, Google and Siri smart home ecosystems. By enabling you to control everything from electronic devices to appliances and even you homes breaker box, you can maintain complete autonomy over your home's security, energy consumption and atmosphere. All you need is a wifi network to get started in experiencing a truly modern, unique smart home experience.**

1.2 Purpose

Votion app is developed to handle devices from iPhone. By using this app user can perform different operations like turning on/off switch from iPhone. The main purpose of this is to provide user with customized UI for different devices.

1.3 Scope

This app requires to support devices manufactured by Votion only. The app supports different devices like Single Switch, Two Switch, Three Switch, LED strip. The app also need to support devices from multiple region. The app also support two Homekit devices i.e. Contact Sensor and Motion Sensor.

1.4 Work role

I have provided support to these app. My role was to debug and identify the issues present in the app. I have resolved few UI related issues, as well as some device related issues in the app. I have also removed Home kit structure and added Home/ room structure from screcth. This is done from api call. Also I have integrated new UI for Home/ Room structure . Using Home kit just to add device to Votion app.New way connection also implemented

• Project description

2.1 Core work flow

This app contains Three main Modules:

• Authentication

• IoT device Connection

• HomeKit devices removed for now

• Authentication

The user needs to login in the app first to access devices. For this we have integrated AWS Authentication in the app. For this we have used AWSMobile Client SDK. User can sign up, sign in in the app. They can also reset password from the app. We have also implemented two factor authentication to verify user, to update password.

• IOT device Connection

User can add wifi devices to there account by calling lambda function. For lambda functions we have used AWSLambda SDK. Once there is a device in an app, we connect to the AWS iOT. For this we have used AWSIoT SDK. We can also update device state from the iPhone by using AWSIoT SDK.

• Homekit Devices will added later on

Votion app also supports devices via Homekit framework For this we have integrated Homekit framework in the app. User can add devices to there home. In homekit framework we have provided support for Contact sensor and Motion sensor.

2.2 Architecture

The app is developed by referring to the MVVM architecture. The below screenshot shows the folder structure of the app.

Please refer below details for reference:

Walkthrough - WalkThroughVC

User Authentication - Folder Authentication (SignUp and SignIn)

New UI - NewUI Folder (NewUI.StoryBoard) ()

Old UI - Some of the UIs are used (Main.storyboard)

HomeScreen - DashBoardPage ,Roomview controller

Create Home /Room structure -

To create new home - CreateNewHome

To create new Room - CreateNewRoomVC

To rename home/Room - RenameHome

To delete Structure - DeleteDeviceVC

AWS - Only 2 classes

Connection - AWSSubscribeTopicModel (not using right now)

Subscription - AWSSubscribeTopicModel

ESP Helper (No use but we have added it for Wifi provisioning, client requested previously)

Homekit folder - For understanding version 1 of application

iOT Screens

- Detail screens (Device Details Folder)

CharView For charts inside the App.

• Work item

I have implemented multi region support for the app.In this devices belong to different region , so we have handle it with custom authorisation way . Also handled token expiration with custom identity provider. This was very much challenging

So took help from AWS team and free git source

Source - https://github.com/aws-amplify/aws-sdk-ios/issues/4191#issuecomment-1180017897

• Project Team

Himesh Rupareliya and Divanshu Agrawal: AWS Backend developer

• Handover plan

3.1 Handover timeline

Handover plan:

• Explain AWS SDK for iOS to connect iOT device in the app : 2 days

• Doubt solving session: 1 day

• Explain Homekit framework to connect homekit devices in the app: 1 day

• Explain other functionalities in the app: 1 day

• Explain chart page functionalities in the app: 2 day

• Explain Token based authentication and connection page functionalities in the app: 1 day

• Explain Custom auth and connection challenges 1 day

• Explain Add accessory to real device and wifi issue 1 day

• Doubt solving session of whole source code: 1 day

• Explain Current bug: 1 day

3.2 Handover method

We had Q&A session. We are also having pair programming session so that another developer can understand where we need to do changes. We had conducted few calls to discuss all project related details, code details.

• Notice

4.1 Cooperation model

Client expects a build once a week.

4.2 Frequently Asked Questions

• IoT device is not showing in the app

Please first check if user has added device from Votion app or not. If not then ask them to add it from Votion app. Then it should be available in the votion app.

• Device not showing in the app

Please first check if user is able to see his/her homekit devices in the home app or not. If not then user must be using different login for home app. We are showing devices available in home app for Votion manufacturer.

• Long press or single touch not working for Online devices

Please first check if Device type is available in our app or not. For this you need to first get current device type from device list response and check if they match or not. If not please check with client first and then implement navigation for the same.

• AWS Device connection returning connection error.

Please check if the configuration values are correct at your end or not. For this you need to check with backend team.

• Account information

5.1 Source code

https://github.com/VotionSam/iOS-Votion-AWS.git

5.2 Resource

Client has shared designs via zeplin. So need to get access from client for this.

• App iTunes/Play Store URL

App is not live yet.

• Work Status

6.1 Current Status

On Going

6.2 Status project on last day of contract

On Going