

**PROJECT TYPE**

IoT,  
Mobile apps: IOS and Android

**TECHNOLOGIES****IOS**

UIKit  
Foundation  
CoreBluetooth  
Cocoa Pods

**ANDROID**

Kotlin  
AppCompat  
Android BLE SDK  
ViewModel  
LiveData  
Data Binding Navigation  
Room

**DURATION**

6 months

**METHODOLOGY**

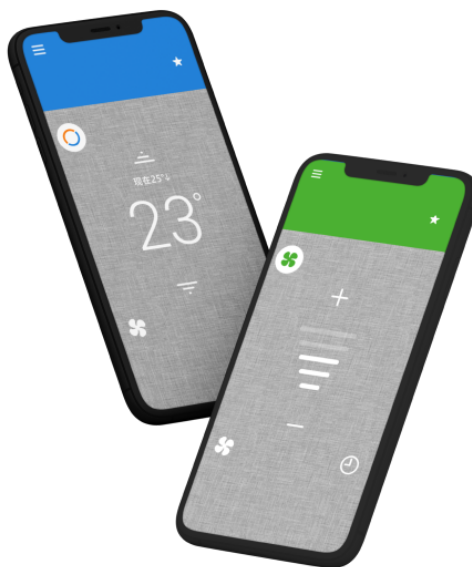
Scrum

**TEAM**

Project Manager  
Quality Assurance Specialist  
2 iOS developers  
2 Android Developers

## IoT Apps for Controlling an Air Conditioning System

2 native IoT apps to create the perfect environmental conditions in your home.



## Project Special Features

There are two types of users: installer and consumer

- ✓ Installer uses App for advanced setup on-site while installing/maintaining AC system.
- ✓ Consumer controls the AC system via the App.

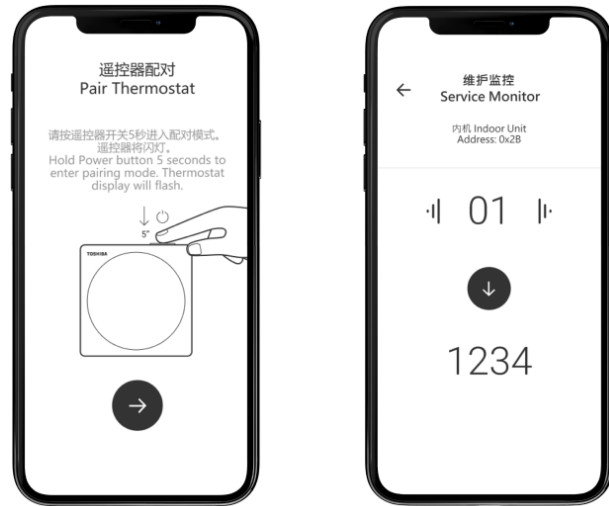
### Features:

- ✓ App tour
- ✓ Pair thermostat
- ✓ Rooms management
- ✓ Temperature management
- ✓ Activity scheduling
- ✓ Fan speed and louver control
- ✓ Modes and custom settings
- ✓ Service monitor and updates
- ✓ Chinese and English languages

## Business challenge

- ✓ SumatoSoft was responsible for the front and back-end parts of the project. There was a liaison between a manufacturer and us.
- ✓ A liaison's goal: to deliver a fully functional product within the agreed interval of time and scope.

- ✓ Manufacturer's goal: to sell a new AC package with extended control (via iOS and Android apps and a new AC remote control unit).



## Our solution

Simple and neat native iOS and Android applications according to the requirements. Apps connect directly through BLE to the firmware of the AR system and allow to control and manage the environmental conditions.

We used native methods to establish a connection for iOS and Android app versions. The biggest challenge was establishing a connection for the Android app because of the variety of versions and gadgets Android has. However, we prevailed in this task.

We had a 2-week business trip in China at the start of the project. The trip came to be very productive. Our team and the liaison's team had a shared working space, allowing us to solve any issues quickly.

We also officially released the iOS app's version on the app store. The Android version was supposed to be launched on Chinese app marketplaces by the liaison.

## Customer's benefits

It was a new AC remote control unit concept. We don't have further information on where this version of AC RCU became widely distributed on the Chinese market.

## What's happening with the project right now?

The Apps were released in the Chinese market region.  
No further information.