



Quick Start with Smart Life App SDK for iOS

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1. Quick Start with SmartLife App SDK for iOS

SmartLife App SDK for iOS supports the comprehensive and flexible development of smart apps. This tutorial walks you through a few steps to get started with the SDK and develop a preferred smart app within two hours. You will learn how to implement the following features:

Register for an account of the app with a mobile phone number and log in to the app with the account.

Create a home for a logged-in account and view and modify details of the home.

Use a smart light as an example and pair the light with the app.

Use the app to switch on or off the light and adjust its brightness.

You can go to GitHub and download the sample code for the different features mentioned in this tutorial. Then, you can integrate the required sample code into your SDK development on the [Thing Developer Platform](#).

[App SDK Development GitHub Sample](#)

2. Preview

This tutorial, along with specific panel development, helps you create the following sample app for iOS.





3. Preparation

Before you start, the following requirements must be met:

1. An account of the Tuya Developer Platform is registered, an app is built on the platform, and the values of `AppKey` and `AppSecret` of the SmartLife App SDK service are obtained. For more information, see [Preparation](#) .
2. A `Powered by Thing` product, such as a smart light, is created. To get the product, visit [ThingGo](#) .
3. The SmartLife App SDK for iOS is integrated into your project with CocoaPods. For more information, see [Fast Integration](#) .

4. Step 1: Register a user account

In this section, only registration and login with a mobile phone number are described. The SDK also supports registration and login with email addresses, third-party accounts, and anonymous accounts. For more information, see [User Account Management \(iOS\)](#) .

To implement registration, you must:

- Set the `countryCode` parameter to specify the country code. This way, the data center closest to the users' location can be selected to serve workloads in the cloud. For example, `countryCode` for America is `1` and that for mainland China is `86` . For more information, see [Cloud Services](#)

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The data in different data centers is isolated from each other. Therefore, an account that is registered in **America (1)** cannot be used in **mainland China (86)**. Otherwise, an error message is returned to indicate that the account does not exist.

- Frequently call the `ThingSmartUser` object. This object is a singleton that stores all data of the current user, including login and registration methods. For more information, see [User Account Management \(iOS\)](#) .

4.1. Query areas for the verification code service

To strengthen data security, Tuya has optimized the verification code service and placed limits on accounts. The verification code service is available only in limited areas. We recommend that you query the areas in which the verification code service is enabled on the Tuya Developer Platform for your account.

```
1 [[ThingSmartUser sharedInstance]
  getWhiteListWhoCanSendMobileCodeSuccess:^(NSString *regions) {
2
3 } failure:^(NSError *error) {
4
5 }];
```


The return value of `regions` indicates one or more countries or areas that are separated with commas (,). For example, `86,01` can be returned. For more information, see [Global deployment](#).

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Currently, the verification code service is activated by default in mainland China. If you want to launch your application in other countries or areas, you must verify that the verification code service is available in a specific country or area and contact your account manager of Tuya or [submit a ticket](#) to activate the service.

4.2. Get a verification code to register with a mobile phone number

Registration with a mobile phone number is similar to other common registration methods. To proceed with the registration, users must get a verification code. You can use the same API method to send verification codes to an account that might be registered with a mobile phone number or an email address. The verification codes are required in multiple operations. For example, register an account, modify a password, log in to the app, or complete account information.

```
1  NSString * region = [[ThingSmartUser sharedInstance]
2  getDefaultRegionWithCountryCode:countryCode];
3
4  [[ThingSmartUser sharedInstance] sendVerifyCodeWithUserName:userName // The
5  phone number or email address.
6
7  region:region
8  countryCode:countryCode //
9  NSString, like `86` or `01`.
10
11                                     type:1 // The
12                                     type of verification code. Set the value to `1` to mean the registration
13                                     verification code.
14
15                                     success:^(
16                                     // The request is
17                                     successful.
18                                     } failure:^(NSError *error) {
19                                     // The request failed.
20                                     // The error message is
21                                     returned by `error.localizedDescription`.
22                                     }];
```



The `type` parameter must be set to `1` . Otherwise, the registration failed.

4.3. Register an account with a mobile phone number

To register an account with a mobile phone number, users must provide the country code, mobile phone number, password, and the returned verification code. For more information, see [Register with the mobile phone number and password](#) .

```

1  [[ThingSmartUser sharedInstance] registerByPhone:countryCode // The country
   code, like `86` or `1`.
2                                     phoneNumber:phone
3                                     password:password
4                                     code:code // The verification code.
5                                     success:^(
6
7                                     // The registration request is
   successful.
8
9                                     } failure:^(NSError *error) {
10
11                                     // The registration failed.
12                                     // The error message is returned by
   `error.localizedDescription`.
13                                     }
14
15 ];

```

4.4. Log in to the app with a mobile phone number

After users register an account with mobile phone numbers, they can log in to the app with their mobile phone numbers. For more information, see [Login with phone number and password](#) .

```

1  [[ThingSmartUser sharedInstance] loginByPhone:countryCode
2                                     phoneNumber:phone
3                                     password:password
4                                     success:^(
5
6                                     // The login request is successful.
7
8                                     } failure:^(NSError *error) {
9
10                                     // The login failed.
11

```



12

`}1;`

5. Step 2: Create and manage homes

The SmartLife App SDK helps you implement smart scenes for specific homes. This allows users to add, edit, and remove smart devices based on homes. You can also listen for device status changes in the homes. Users create an unlimited number of homes for each user account. One or more rooms or home members can be added and managed for a specific home.

In this section, the objects `ThingSmartHomeModel` and `ThingSmartHome` are frequently called.

Object	Description
<code>ThingSmartHomeModel</code>	Stores basic information of a home, such as the ID, name, and location.
<code>ThingSmartHome</code>	Stores data of all features that are supported by a home. For example, a single home and the home members and rooms of the home can be managed with this object. <code>ThingSmartHome</code> must be initialized with the correct value of <code>homeId</code> .



Make sure that `ThingSmartHome` in `ViewController` or other objects is declared as a global variable (`@property`). Otherwise, a temporary variable of `ThingSmartHome` might be released during initialization due to the scope limit, and thus `nil` is returned.

5.1. Create homes

Users can create one or more homes for each logged-in account. Then, rooms, members, and devices can be managed based on the homes. To create a home, call the API method [addHomeWithName](#) in `ThingSmartHomeManager`.

```
1 [self.homeManager addHomeWithName:name
2   geoName:city
```

```
rooms:@[@""] // we could add rooms after creating the home ,
3
so pass a null list firstly .
4         latitude:self.latitude
5         longitude:self.longitude
6         success:^(long long result) {
7
8                                     // Added successfully. The value
9         of `homeID` is returned.
10        } failure:^(NSError *error) {
11
12                                     // Failed to add a home.
13
14        }];
```

5.2. Query a list of homes

You can get a list of homes for a logged-in account. If no home is created for the account, an **empty array** is returned.

```
1 // Returns a list of homes and refreshes the TableView.
  [self.homeManager getHomeListWithSuccess:^(NSArray<ThingSmartHomeModel *> *homes)
2
  {
3     // The request is successful and the UI is refreshed.
4     // [self.tableView reloadData];
5 } failure:^(NSError *error) {
6
7     // The request failed.
8
9 }];
```

5.3. Best practices

After a home is created, subsequent operations are implemented based on the home. For example, rooms, members, and device pairing can be managed for the home. Therefore, we recommend that you store the home data as a global variable for the app. You can locally switch the current home as needed. The Tuya Developer Platform does not record this change. In the sample code for this tutorial, the first home in the list is specified as the current home by default.

```
1 + (ThingSmartHomeModel *)getCurrentHome {
2
3     NSUserDefaults *defaults = [NSUserDefaults standardUserDefaults];
4     if (![defaults valueForKey:@"CurrentHome"]) {
5         return nil;
6     }
7 }
```

```
8     long long homeId = [[defaults valueForKey:@"CurrentHome"] longLongValue];
9
10    if (![ThingSmartHome homeWithHomeId:homeId]) {
11        return nil;
12    }
13
14    return [ThingSmartHome homeWithHomeId:homeId].homeModel;
15 }
16
17 + (void)setCurrentHome:(ThingSmartHomeModel *)homeModel {
18     NSUserDefaults *defaults = [NSUserDefaults standardUserDefaults];
19     [defaults setValue:[NSString stringWithFormat:@"%lld", homeModel.homeId]
20 forKey:@"CurrentHome"];
21 }
22 }
```

The preceding code block allows you to simplify the following home operations:

- Query a list of homes:

```
1 self.home = [ThingSmartHome homeWithHomeId:[ThingHome getCurrentHome].homeId];
```

- Set a home ID:

```
1 [ThingHome setCurrentHome:xxx];
```

6. Step 3: Pair devices

After users pair a device with the app, the device is connected and registered to the cloud and can communicate with the cloud. The SmartLife App SDK empowers smart devices to be paired in multiple pairing modes. For example, they can be paired over Wi-Fi and Bluetooth. For more information, see [Device Pairing \(iOS\)](#) and [Bluetooth LE on iOS](#).

6.1. Pairing modes

In this section, the Wi-Fi pairing modes are used as an example to describe how to integrate the SDK and register a device to the cloud.

Wi-Fi pairing modes include: [Wi-Fi Easy Connect \(EZ\)](#), [Access Point \(AP\)](#), and QR code. In the later versions of the SmartLife App SDK for iOS, we recommend that you use the **AP** mode instead of the **Wi-Fi EZ** mode. The former trumps the latter when it comes to the following aspects:

- Compared with the Wi-Fi EZ mode, the AP mode results in a higher success rate, optimal reliability, and fewer compatibility requirements for mobile phones and routers.
- The app built with Xcode 12.5 cannot send the EZ pairing data packets from iPhone that runs iOS 14.5 or later. In this case, the permission **com.apple.developer.networking.multicast** must be enabled for the app. This permission must be approved by Apple before it can be enabled. As a temporary solution, you can use an earlier Xcode version, but the AP mode is still recommended.

6.2. Get the pairing token

Before the AP pairing process, the SDK must [get a pairing token](#) from the cloud in the networked state. The token is valid for 10 minutes and expires immediately after the device is paired. A new token must be generated if the device needs to be paired again. To get a token, the current value of `homeId` must be provided. Therefore, during this process, the account must be in the logged-in state and at least one home is created for the account.

```
1  [[ThingSmartActivator sharedInstance] getTokenWithHomeId:homeId
2                                     success:^(NSString *token) {
3                                     // NSLog(@"getToken success: %@",
4                                     token);
5                                     //
6                                     You can start ConfigWiFi now.
7                                     } failure:^(NSError *error) {
8                                     //NSLog(@"getToken failure: %@",
9                                     error.localizedDescription);
10                                    }
11 ];
```

6.3. Compatibility with iOS

iOS 14

Starting from iOS 14, when users implement device pairing or control over a local area network (LAN), the **local network privacy setting** dialog box is triggered.

- The app can send data to the LAN only after users tap **OK**.
- Otherwise, if users tap **Don't Allow**, the app cannot access the LAN.

Currently, Apple does not provide APIs to process this privacy setting. We recommend that you guide users to allow the app to access LAN data when features that require LAN connection cannot work. Specifically, go to **Settings**, choose **Privacy > Local Network**, and then allow the app to access the LAN.

iOS 13

Starting from iOS 13, if users do not allow the app to access location data, when the Wi-Fi feature is enabled, `[[ThingSmartActivator sharedInstance] currentWifiSSID]` cannot get a valid Wi-Fi service set identifier (SSID) or basic service set identifier (BSSID). In this case, iOS returns the following default values:

- SSID: WLAN or Wi-Fi . WLAN is returned for users in mainland China.
- BSSID: 00:00:00:00:00:00 .

6.4. Start pairing

Before the pairing process is started, the device must keep a state pending pairing. To set the device to this state, you can guide users to follow the device user manual.

To call the API method [startConfigWiFi](#) , you must provide the SSID of the router (the Wi-Fi name), password, and the token obtained from the cloud.

```
1 [ThingSmartActivator sharedInstance].delegate = self;
2 [[ThingSmartActivator sharedInstance] startConfigWiFi:ThingActivatorModeAP
3                                     ssid:ssid
4                                     password:password
5                                     token:token
6                                     timeout:100];
```

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The `timeout` parameter is set to `100` by default. Unit: seconds. You can specify any preferred value. However, a small value is not recommended. A proper value can ensure the optimal pairing performance.

In AP pairing mode, you must implement the protocol `ThingSmartActivatorDelegate` and listen for the callback of the pairing result.

```
1 @interface xxxViewController () <ThingSmartActivatorDelegate>

- (void)activator:(ThingSmartActivator *)activator didReceiveDevice:
  (ThingSmartDeviceModel *)deviceModel error:(NSError *)error {
2     if (deviceModel && error == nil) {
3         // The request is successful.
4         // NSLog(@"connected success: %@", deviceModel.name);
5     }
6
7     if (error) {
8         // The request failed.
9     }
10
11     // Stops the pairing process.
12 }
```

6.5. (Optional) Stop pairing

After the pairing process is started, the app continuously broadcasts the pairing data until a device is paired or the process times out. To allow users to cancel or complete pairing during the process, you must call the API method [stopConfigWiFi](#) .

```
1 [ThingSmartActivator sharedInstance].delegate = nil;
2 [[ThingSmartActivator sharedInstance] stopConfigWiFi];
```

7. Step 4: Control devices

In this section, the objects `ThingSmartDeviceModel` and `ThingSmartDevice` are used.

Object	Description	Reference
<code>ThingSmartDeviceModel</code>	<ul style="list-style-type: none"> Similar to <code>ThingSmartHomeModel</code> and <code>ThingSmartHome</code>, <code>ThingSmartDeviceModel</code> stores the basic information about a device, such as the ID, name, and icon. The <code>dps</code> property of <code>NSMutableDictionary</code> type for the class <code>ThingSmartDeviceModel</code> defines the current device status. The status is known as one or more data points (DPs). Each DP stores the features of a device. A DP can define a switch of Boolean type or the brightness of Value type. To enable device control, you can get and modify the DPs. 	Device DPs

Object	Description	Reference
ThingSmartDevice	ThingSmartDevice stores all data of device features, such as device control and firmware management. You must use the correct value of deviceId to initialize ThingSmartDevice .	Device Management (iOS)



Make sure that ThingSmartDevice in ViewController or other objects is declared as a global variable (@property). Otherwise, a temporary variable of ThingSmartDevice might be released during initialization due to the scope limit, and thus nil is returned.

7.1. Query a list of devices

After a device is paired, users can query a list of devices that are created for a specific home.

```
1 self.home = [ThingSmartHome homeWithHomeId:#your homeId];
2 self.deviceList = [self.home.deviceList copy];
```



You must call the API method [getHomeDetailInfo](#) first to enable the query. Otherwise, the query will fail even after the device is paired.

7.2. View device information

- DP data is stored in schemaArray of deviceModel .

```
1 ThingSmartDevice *device = self.device;
2 NSArray *schemas = device.deviceModel.schemaArray;
```

- All DP data is stored in `schemaArray` . Each DP is encapsulated as the `ThingSmartSchemaModel` object.

```

/// The device schema.
@interface ThingSmartSchemaModel : NSObject

/// The DP ID.
@property (nonatomic, strong) NSString *dpId;

/// The DP code.
@property (nonatomic, strong) NSString *code;

/// The name of the DP.
@property (nonatomic, strong) NSString *name;

/// Reads and writes attributes of the DP. rw: send and report | ro: only report | wr: only send.
@property (nonatomic, strong) NSString *mode;

/// The type of DP. obj: numeric, character, Boolean, enumeration, and fault | raw: the pass-through type.
@property (nonatomic, strong) NSString *type;

/// The icon name of the DP.
@property (nonatomic, strong) NSString *iconname;

/// The DP property.
@property (nonatomic, strong) ThingSmartSchemaPropertyModel *property;

```

- Certain complex DPs are further encapsulated in `property` of `ThingSmartSchemaModel` . Example:

```

1  NSString *type = [schema.type isEqualToString:@"obj"] ? schema.property.type :
2  schema.type;
3
4  if ([type isEqualToString:@"bool"]) {
5      SwitchTableViewCell *cell = [tableView
6      dequeueReusableCellWithIdentifier:@"switchCell"];
7      if (cell == nil){
8          cell = [[[NSBundle mainBundle] loadNibNamed:@"SwitchTableViewCell"
9          owner:self options:nil] lastObject];
10         cell.label.text = schema.name;
11         [cell.switchButton setOn:[dps[schema.dpId] boolValue]];
12     };
13 }
14 }
15 return cell;
16 }
17 }
18
19 else if ([type isEqualToString:@"value"]) {
20     SliderTableViewCell *cell = [tableView
21     dequeueReusableCellWithIdentifier:@"valueCell"];
22     if (cell == nil){
23         cell = [[[NSBundle mainBundle] loadNibNamed:@"SliderTableViewCell"
24         owner:self options:nil] lastObject];

```

```

25         cell.label.text = schema.name;
26         cell.detailLabel.text = [dps[schema.dpId] stringValue];
27         cell.slider.minimumValue = schema.property.min;
28         cell.slider.maximumValue = schema.property.max;
29         cell.slider.value = [dps[schema.dpId] floatValue];
30
31     };
32 };
33 return cell;
34
35 }
36
37 else if ([type isEqualToString:@"enum"]) {
38     //...
39 }
40
41 //...

```

In the preceding code block, the DPs of a smart light are displayed in `TableView` .

The following settings are applied:

- The switch data is displayed in `cell` for which `type` is set to **bool**.
- The brightness data is displayed in `cell` for which `type` is set to **value**.

7.3. Control a device

To enable device control, you must call the [device control API method](#) and send DPs in the `NSDictionary` format to change device status or features.



The parameter `dps` can define one or more DPs. Thus, multiple states of a device can be changed in the same call.

In the following code block, a smart light is used as an example to change its switch status and brightness value.

```

1  if ([type isEqualToString:@"bool"]) {
2
3      SwitchTableViewCell *cell = [tableView
4      dequeueReusableCellWithIdentifier:@"switchCell"];
5      if (cell == nil){
6          cell = [[[NSBundle mainBundle] loadNibNamed:@"SwitchTableViewCell"
7          owner:self options:nil] lastObject];
8
9          cell.label.text = schema.name;
10         [cell.switchButton setOn:[dps[schema.dpId] boolValue]];
11         cell.isReadOnly = isReadOnly;

```

```

10         // The light is switched on or off after a tapping event of
11         `UISwitch`.
12         cell.switchAction = ^(UISwitch *switchButton) {
13             [weakSelf publishMessage:@{schema.dpId: [NSNumber
14                 numberWithBool:switchButton.isOn]}}];
15         };
16     }
17     return cell;
18 }
19
20 else if ([type isEqualToString:@"value"]) {
21     SliderTableViewCell *cell = [tableView
22     dequeueReusableCellWithIdentifier:@"valueCell"];
23     if (cell == nil){
24         cell = [[[NSBundle mainBundle] loadNibNamed:@"SliderTableViewCell"
25             owner:self options:nil] lastObject];
26
27         cell.label.text = schema.name;
28         cell.detailLabel.text = [dps[schema.dpId] stringValue];
29         cell.slider.minimumValue = schema.property.min;
30         cell.slider.maximumValue = schema.property.max;
31         [cell.slider setContinuous:NO];
32         cell.slider.value = [dps[schema.dpId] floatValue];
33
34         // The value is changed after a tapping event of
35         `UISlider`.
36         cell.sliderAction = ^(UISlider * _Nonnull slider) {
37             float step = schema.property.step;
38             float roundedValue = round(slider.value / step) * step;
39             [weakSelf publishMessage:@{schema.dpId : [NSNumber
40                 numberWithInt:(int)roundedValue]}}];
41         };
42     }
43     return cell;
44 }

```

```

1 - (void)publishMessage:(NSDictionary *) dps {
2     [self.device publishDps:dps success:^(
3         // The value is changed successfully.
4     )
5     failure:^(NSError *error) {
6         // Failed to change the value.
7     }];
8 }

```

To listen for changes in device status, such as getting online, removal notifications, and DP data changes, you must implement the protocol `ThingSmartDeviceDelegate` .

```

1 self.device = [ThingSmartDevice deviceWithDeviceId:## your deviceId];

```

```
2 self.device.delegate = self;
```

```
1 #pragma mark - ThingSmartDeviceDelegate
2
3 /// Device information updates, such as the name and online status.
4 /// @param device The device instance.
5 - (void)deviceInfoUpdate:(ThingSmartDevice *)device;
6
7 /// Device online status updates
8 /// @param device The device instance.
9 - (void)deviceOnlineUpdate:(ThingSmartDevice *)device;
10
11 /// Indicates whether the device is removed.
12 /// @param device The device instance.
13 - (void)deviceRemoved:(ThingSmartDevice *)device;
14
15 /// The DP data updates.
16 /// @param device The device instance.
17 /// @param dps The command dictionary.
18 - (void)device:(ThingSmartDevice *)device dpsUpdate:(NSDictionary *)dps;
19
20 /// The DP data updates.
21 /// @param device The device instance.
22 /// @param dpCodes The DP codes.
23 - (void)device:(ThingSmartDevice *)device dpCommandsUpdate:(NSDictionary
24 *)dpCodes;
25
26 /// The group OTA task progress.
27 /// @param device The gateway instance.
28 /// @param groupId group OTA task id.
29 /// @param type The firmware type.
30 /// @param progress The update progress.
31 - (void)device:(ThingSmartDevice *)device groupOTAId:(long)groupId firmwareType:
32 (NSInteger)type progress:(double)progress;
33
34 /// The group OTA task status.
35 /// @param device The gateway device instance.
36 /// @param upgradeStatusModel The model of the update status.
37 - (void)device:(ThingSmartDevice *)device
38 groupOTAStatusModel:(ThingSmartFirmwareUpgradeStatusModel
39 *)upgradeStatusModel;
40
41 /// The callback of Wi-Fi signal strength.
42 /// @param device The device instance.
43 /// @param signal The signal strength.
44 - (void)device:(ThingSmartDevice *)device signal:(NSString *)signal;
45
46 /// Receives MQTT custom messages.
47 /// @param device The device instance.
48 /// @param message The custom message.
49 - (void)device:(ThingSmartDevice *)device didReceiveCustomMessage:
50 (ThingSmartMQTTMessageModel *)message;
51
52 /// Receives LAN custom messages.
53 - (void)device:(ThingSmartDevice *)device didReceiveLanMessage:
54 (ThingSmartLanMessageModel *)message;
55
56 /// The delegate of warning information updates.
```

```

52  /// @param device The device instance.
53  /// @param warningInfo The warning information.
54  - (void)device:(ThingSmartDevice *)device warningInfoUpdate:(NSDictionary
55  *)warningInfo;
56
57  /// The delegate of changes in device normal firmware/pid version update's
58  status/progress
59  /// Notice: sometimes the progress may <0, when it occurred please ignore the
60  progress.
61  /// @param device The device instance.
62  /// @param statusModel status/progress model.
63  - (void)device:(ThingSmartDevice *)device otaUpdateStatusChanged:
64  (ThingSmartFirmwareUpgradeStatusModel *)statusModel;
65
66  /// The tuya message data update.
67  /// Example:
68  ///     type == property:
69  ///     payload = {
70  ///         "code_name1": {
71  ///             "value": "code_value1",
72  ///             "time": 1234567890
73  ///         },
74  ///         "code_name2": {
75  ///             "value": 50,
76  ///             "time": 1234567890
77  ///         }
78  ///     }
79  ///     type == action:
80  ///     payload = {
81  ///         "actionCode": "testAction",
82  ///         "outputParams": {
83  ///             "outputParam1": "outputValue1",
84  ///             "outputParam2": 50
85  ///         }
86  ///     }
87  ///     type == event:
88  ///     payload = {
89  ///         "eventCode": "testEvent",
90  ///         "outputParams": {
91  ///             "outputParam1": ["outputValue1", "outputValue2"],
92  ///             "outputParam2": false
93  ///         }
94  ///     }
95  /// @param device The device instance.
96  /// @param thingMessageType The message type.
97  /// @param payload The message payload.
98  - (void)device:(ThingSmartDevice *)device didReceiveThingMessageWithType:
99  (ThingSmartThingMessageType)thingMessageType payload:(NSDictionary *)payload;

```

7.4. (Optional) Remove a device

You can call the API method [removeDevice](#) to remove a device from a specific home.


```
1 [self.device remove:^(
2     NSLog(@"remove success");
3     } failure:^(NSError *error) {
4         NSLog(@"remove failure: %@", error);
5     }];
```

8. Practice result

Now, your smart app can be built through the preceding steps. The app supports multiple features. For example, register a user account, create and query homes, and pair and control devices.

9. Next step

To ensure development efficiency, Tuya has abstracted features and encapsulated UI BizBundles from the SDK. You can integrate any of the comprehensive [UI BizBundles](#) to meet different business requirements.