OTP Auto Read Plugin - Integration Guide

Overview

The `otp_auto_read` Flutter plugin allows you to automatically read OTP codes from SMS on Android using native Kotlin `BroadcastReceiver`, and enables iOS OTP autofill via the keyboard suggestion bar.

It is designed to be easy enough for a beginner Flutter developer (1+ month experience) to use.

Installation & Setup

1. Add the plugin locally in your Flutter project:

   Add to your `pubspec.yaml`:

```
dependencies:
  flutter:
    sdk: flutter
  otp_auto_read:
    path: ../otp_auto_read
```

2. Update `android/app/build.gradle`:
   - `minSdkVersion` must be at least 21
   - `targetSdkVersion` can be 33 or higher

3. Add this permission to `AndroidManifest.xml`:

```
<uses-permission android:name="android.permission.RECEIVE_SMS"/>
```

Android Version Requirements

- Minimum Android SDK Version: 21 (Android 5.0 Lollipop)
- Target SDK Version: 33 or above (Android 13+)

The plugin uses Kotlin and requires runtime permission handling. Ensure you are using:
- Kotlin version 1.6.10 or newer

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- Android Gradle Plugin 7.0.0 or higher

iOS Configuration

On iOS, OTP cannot be auto-read due to system restrictions. However, if you use:

`autofillHints: [AutofillHints.oneTimeCode]`

inside a TextField, iOS will suggest OTPs received via iMessage or SMS.

Example Usage

1. Import the plugin:

```
import 'package:otp_auto_read/otp_auto_read.dart';
```

2. Start and stop listener:

```
OtpAutoRead.start();

OtpAutoRead.stop();
```

3. Set up OTP listener:

```
OtpAutoRead.setListener((otp) {

  print('Received OTP: \$otp');

});
```

SMS Format

Your SMS must contain a 6-digit OTP. Example:

"Hi, Your Code 123456 don't share this OTP with anyone, it's valid till 5 minutes."

The plugin will extract the first 6-digit number using a regex.

Testing Tips

- Use two real Android devices to send/receive SMS.

- Ensure RECEIVE_SMS permission is granted on the target phone.

- Use correct message format containing a 6-digit OTP.

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Summary

This plugin simplifies OTP integration in Flutter apps for both Android and iOS. A junior Flutter developer can easily follow this guide and integrate OTP auto-read securely and quickly.