# Maintenance Guide

### **Maintenance Guide for Voice2Textify**

#### **Overview**

This guide outlines the steps required to maintain and troubleshoot the Voice2Textify application. It covers:

* Environment setup
* Updating dependencies
* Managing Firebase services
* Common troubleshooting steps
* Adding new features
* Ensuring app stability

#### **Environment Setup**

**Development Tools**:

* + Flutter SDK (minimum version: 3.13.0 )
  + Dart (minimum version: 3.5.4 )
  + Android Studio or Visual Studio Code

**Clone the Repository**:

**Run in terminal**:

git clone <repository-url>

cd Voice2Textify

**Install Dependencies**:

**Run in terminal**:

flutter pub get

**Set Up Firebase**:

* + Download the google-services.json file for Android and place it in android/app/.
  + Download the GoogleService-Info.plist file for iOS and place it in ios/Runner/.

#### **Add API Keys:**

To enable the **translation feature**, you need to provide your Google Translate API key:

1. Open the translation\_api\_key.dart file located in the project.
2. Replace the placeholder text (INSERT\_YOUR\_API\_KEY) with your actual Google Translate API key.
3. Ensure that your API key has the required permissions enabled in the Google Cloud Console.

**Note:**

* The API key is not included in the project for security reasons. You must use your own key to enable translation functionality.
* To avoid exposing your API key, do not hard-code it into the app for production. Use environment variables or secure storage solutions like Firebase Remote Config if applicable.

**Environment Variables**:

* + Add API keys and secrets in the appropriate files (e.g., .env or Flutter's dotenv package).

#### **Firebase Management**

**Firestore Database**:

* Ensure Firestore rules allow secure read/write operations:

rules\_version = '2';

service cloud.firestore {

match /databases/{database}/documents {

match /sessions/{sessionId} {

allow read, write: if request.auth != null;

}

}

}

**Authentication**:

* Enable email/password and guest sign-in methods in Firebase Console.

**Troubleshooting Firebase**:

If Firebase services fail, check:

* Internet connectivity
* API key validity
* Database quotas (Firebase plan)

#### **Updating Dependencies**

**Flutter/Dart Packages**:

To check outdated packages, run:

flutter pub outdated

Update packages with:

flutter pub upgrade

**Firebase SDK**:

* Update Firebase dependencies in pubspec.yaml.

**Testing Updates**:

* After updates, run:

flutter clean

flutter pub get

flutter run

#### **Contact and Support**

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