Test Plan Document

Test Plan ID	TP001
Project/Application	Google Translate (https://translate.google.com/)
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Version	1.0

1. Introduction

1.1   Overview :   This test plan outlines the strategy, objectives, resources, schedule, deliverables and scope of the Google Translate web application.

1.2   Objectives :
- Validate that translations across languages
- Validate the input/ output modes
- Confirm UI responsiveness and accessibility
- Ensure the application is stable, usable and ready to release

1.3   Acronyms & Abbreviations :

Acronym / Abbreviation	Meaning
QA	Quality Assurance
API	Application Programming Interface
UI	User Interface

2. Testing Scope

2.1   In Scope:
- Functional testing of
  - Text Translation
  - Speech Translation
  - Image/ File Translation
  - Image/ File Translation
  - Website Translation
  - Handwriting
  - Language Auto-Detection
  - Text-to-Speech

- o   Authentication
- o   Translation Saving
- o   Translation History
- o   Feedback Sharing
- Basic usability checks

2.2   Out-of-Scope
- Google account creation
- Translation for languages except Sinhala / Tamil / English
- Browser extension-based translation
- Non-functional UI aesthetics
- Stress Testing and performance testing
- API-only translation

3. Features to be Tested

Functionality	Expected Outcome
Text Translation	Users should be able to enter or paste text into the source field and receive a translated output in the target language.
Speech Translation	Users should be able to enter a voice input and receive a translated output in the target language.
Image/ File Translation	Users should be able to upload supported files and receive a translated output in the target language.
Website Translation	Users should be able to enter a URL and receive the translated output of the entire web page.
Handwriting	Users should be able to enter the input as a handwriting and receive the translation output in the target language.
Language Auto-Detection	When the source language is unknown, the application should be able to detect it automatically.
Text-to-Speech	Application should offer pronunciation audio for both source and translated text.

Authentication	A user with a google account should be able to log in and log out as needed.
Save Translations	Logged-in users should be able to save their translations when needed.
Translation History	Application should offer translation history for the logged- in users.

4. Test Approach

4.1 Test Types :

- **Functional Testing –** Verify behavior of each feature
- **Exploratory Testing - E**xploratory testing will be conducted to identify defects that may not be captured through predefined test cases.

4.2 Test Deliverables

- Test Plan
- Test Cases
- Bug Report
- Test Summary Report

5. Assumptions and Constraints

5.1 Assumptions :

- Testing will be done only on Google Chrome (latest version).
- Stable test environment will be available.

5.2 Constraints :

- Cross-browser testing (Firefox, Safari, Edge) will be considered as out of scope due to time constraints and limited resources.
- Only the desktop web application in Chrome browser will be tested since Chrome represents the primary user base.
- Testing of mobile web application will be limited to testing of translation functionalities.

5. Roles and Responsibilities

Role	Responsibility
QA Engineer	Test Planning, Test case development, Execute tests, log defects, retest fixed defects

6. Schedule

Activity	Start Date	End Date	Responsible
Test Planning	2025.09.08	2025.09.09	QA Engineer
Test Case Development	2025.09.09	2025.09.10	QA Engineer
Test Execution	2025.09.09	2025.09.10	QA Engineer