

Google Translate Test Plan

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Introduction

Google Translate is a multilingual translation service developed by Google, designed to facilitate communication and understanding across different languages. It has become one of the most widely used translation tools globally. It offers various functionalities, including:

1. **Text Translation:** Translates text input from one language to another. It supports over 100 languages and offers translations in real-time.
2. **Voice Translation:** Allows users to speak into their device to translate spoken language. This is particularly useful for conversations in different languages.
3. **Image Translation:** Uses the device's camera to translate text found in images, such as signs, menus, and documents. The feature supports instant camera translation and import of images for translation.
4. **Handwriting Translation:** Enables users to draw text characters directly on their screen, which is then translated into the selected language. This is beneficial for languages with unique scripts.
5. **Document Translation:** Allows the translation of entire documents, supporting various file formats such as PDF, Word, and more.
6. **Website Translation:** Offers a tool to translate entire web pages by simply entering the URL, making it easier to browse foreign language websites.
7. **Offline Translation:** Provides downloadable language packs for offline use, ensuring translation services are available without an internet connection.
8. **Phrasebook:** Allows users to save commonly used translations and phrases for quick access.

These functions collectively make Google Translate a versatile and accessible tool for overcoming language barriers in various scenarios, from travel and education to business and personal communication.

Objective

The objective of this test plan is to verify the accuracy, reliability of Google Translate when translating between Sinhala, Tamil, and English languages.

Scope

The scope of this test plan includes the following areas:

- Translation accuracy
- Consistency of translations
- Handling of context and idiomatic expressions
- User interface and usability

Test Items

Google Translate web interface

Test Environments

The following test environments will be used:

- Web browser (Chrome)
- Operating system-Windows 10
- Browser version - Google Chrome .Version 126.0.6478.127 (Official Build) (64-bit)
- Network connectivity -Wi-Fi

Defect Reporting Procedure

The criteria for identifying a defect, such as deviation from the requirements, user experience issues, or technical errors.

steps for reporting a defect- Identified defects will be reported through the excel template, providing detailed reproduction steps, and attaching screenshots

process for triaging and prioritizing defects- assigning severity and priority levels, and assigning them to the appropriate team members for investigation and resolution.

tools and systems -Microsoft excel

Test Strategy

Objectives	Verify the accuracy, reliability of Google Translate when translating between Sinhala, Tamil, and English.
Test Levels	System testing
Test Types	Functional testing non-functional testing
Test Techniques	White-box testing Manual testing
Test Deliverables	Test plan Test case document Bug report Test summary report.
Test Environment	Web browser (Chrome) Operating system-Windows 10

Browser version - Google Chrome .Version 126.0.6478.127 (Official Build) (64-bit)

Network connectivity -Wi-Fi

Test Schedule

Task	Duration
Test plan creation	5 hours
Test case design	5 hours
Test Execution-	5 hours
Test Closure	3 hours

Resource Allocation

Task	Assignee
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	Test plan creation	Udari
	Test case design	Udari
	Test Execution-	Udari
	Test Closure	Udari
Risk Management	<p>Risk: Non-Availability of a Resource</p> <p>Mitigation: Backup Resource Planning</p> <p>Risk: Less time for Testing</p> <p>Mitigation: Ramp up the resources based on the Client needs dynamically</p>	
Test Exit Criteria	<p>Percentage of test cases executed-100%</p> <p>Test coverage -100%</p> <p>Maximum number of unresolved defects-</p>	

Test Schedule

Following is the test schedule planned for the project –
Task Time Duration- 3 Days to Test the Application

Task	Dates
▪ Creating Test Plan	2024/07/04
▪ Test Case Creation	2024/07/04
▪ Test Case Execution	2024/07/05
▪ Summary Reports Submission Date	2024/07/06

Features To Be Tested

Check accuracy of translation sample texts from Sinhala / Tamil / English only

Features Not To Be Tested

Checking accuracy of translation of other languages except from Sinhala / Tamil / English not included

Test Deliverables.

1. Test Plan
2. Test case document
3. Bug report
4. Test Summary report

The followings are to be delivered to the client:

Deliverables	Description	Target Completion Date
Test plan	Details on the scope of the project, test strategy, test schedule, resource requirements, test deliverables and schedule	2024/07/04
Test cases	Test cases created for the scope defined	2024/07/04
Bug report	Detailed description of the defects identified along with screenshots and steps to reproduce	2024/07/05
Test summary report	Bugs by Priority	2024/07/06

Entry and Exit Criteria

Entry Criteria:

- Google Translate is accessible and functional.
- Test data is prepared and validated.

Exit Criteria:

- All test cases are executed.
- All critical bugs are fixed or reported.

Tools

The following are the list of Tools we will be using in this Project:

- Word and Excel documents

Risks and Mitigations

The following are the list of risks possible and the ways to mitigate them:

Risk: Non-Availability of a Resource

Mitigation: Backup Resource Planning

Risk: Build URL is not working

Mitigation: Resources will work on other tasks

Risk: Less time for Testing

Mitigation: Ramp up the resources based on the Client needs dynamically

Approvals

- Test Plan
- Test Scenarios
- Test Cases
- Reports