**Test Plan Document**Project: Google Translator

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| **Document Version** | **Prepared By** | **Date** | **Comments** |
| 1.0 | Thilani Mahaarachchi | 28/04/2024 |  |

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# **1. Overview**

Google Translator developed by Google is an online language translation service that provides immediate translations between multiple languages. This test plan defines the testing strategy and approach that is followed to meet the quality requirements of Google Translator. This testing is carried out to ensure the functionality, accuracy, and reliability of Google Translator when translating a particular language to a different language. This will serve as a guide for the testing team and stakeholders to ensure comprehensive and effective testing of the Google Translator.

# **2. Objectives**

Testing is carried out to achieve following outcomes.

* To verify the correctness of translations provided by Google Translator.
* To validate the performance of Google Translator under different network conditions.
* To verify the compatibility of Google Translator with various browsers and devices.

# **3. Test Scope**

Following aspects will be covered by the testing.

* Accuracy of translations for commonly used languages.
* Special characters and diacritics handling.
* Support for different language combinations.
* Performance testing under various network conditions.
* Compatibility testing on different browsers and devices.

# **4. Test Approach**

The primary focus of testing will be given to manual testing techniques. Manual testing will be performed to evaluate the accuracy of translations and user experience. Compatibility tests will ensure how Google Translator works flawlessly across different devices and browsers. In addition to that, basic performance will be carried out to make a more satisfied customer.

# **5. Test Environment**

Hardware: Laptop, Desktop, iPhone 11, Android smart phone with an internet connection

Software: Latest version of Google Chrome, Mozilla Firefox, Safari, and Edge and Lambda test web application for simulator testing

Test Data: A set of sample texts in Sinhala, Tamil, and English languages covering the test scope

Network: Various network conditions (3G, 4G, Wi-Fi)

# **6. Test Case Designing**

Test cases will be designed against the functionality, user experience, performance and compatibility requirements and an Excel spread sheet will be used as the test case management tool. Each test case will be described with test case ID, description, steps, expected results, actual results, and pass/fail status, and related bug.

# **7. Test Execution and Reporting**

Each test case will be executed according to the test plan, and the results will be updated in the test case document. The bugs will be mapped against the related test cases. The defects or issues found during test execution will be reported, tracked, and prioritized for bug fixing. Defects will be tracked in an excel sheet and priorities and severities will be assigned to the defects based on impact. Retesting the defects will be carried out after fixes are implemented. Test case document will be updated on bug fixes and regular updates on testing progress will be provided.

# **8. Test Deliverables**

* Test Plan Document
* Test Cases Document
* Defect Report
* Test summary report

# **9. Testing Time Line**

Test Planning: 26/4/2024 - 26/4/2024

Test Execution: 27/4/2024 - 27/4/2024

Reporting and Closure: 27/4/2024 - 28/4/2024

# **10. Testing Team**

|  |  |  |
| --- | --- | --- |
| **Resource** | **Name** | **Responsibility/Role** |
| Tester 1 | Thilani Mahaarachchi | Manual Testing - Test Planning, Executing and Reporting |

# **11. Risks and Mitigation**

|  |  |
| --- | --- |
| **Risk** | **Mitigation** |
| The accuracy of translations for less widely used languages may differ. | Focus testing on widely used languages and obtain validation through crowdsourcing |
| Performance deterioration when there is a heavy load condition. | As the second phase of testing, carry out comprehensive performance testing and maximize resource utilization using SLAs supplied by the client. |

# **12. Test Approval**

Approved By: [Name]

Date: [Date]