

Artificial Intelligence for Business Decisions and Transformation

Development Phase Document

Team Members:

Angel Antony

Arya Krishnan

Prasant Pradeep

Introduction

This sprint focuses on activities, strategies, and metrics essential for advancing the Real-Time Sign Language Recognition System. The primary objective is to enhance the system by adding support for five additional languages: Spanish, French, German, Japanese, and Chinese. This change aims to increase inclusivity, accessibility, and global usability of the system.

1. Build the Change Solution

- Develop and test the system to include support for the five new languages.
- **Steps:**
 - Collected diverse datasets for each language to train the recognition model.
 - Enhanced the user interface for easy language selection and relevant feedback display.

2. Pilot Testing

- Conduct small-scale testing to validate the feasibility and accuracy of the solution.
- **Steps:**
 - Identified native signers for each language and involved them in testing.
 - Tested the recognition models in diverse real-world scenarios to assess accuracy and performance.
 - Verified usability improvements in the updated interface.

3. Feedback and Iteration

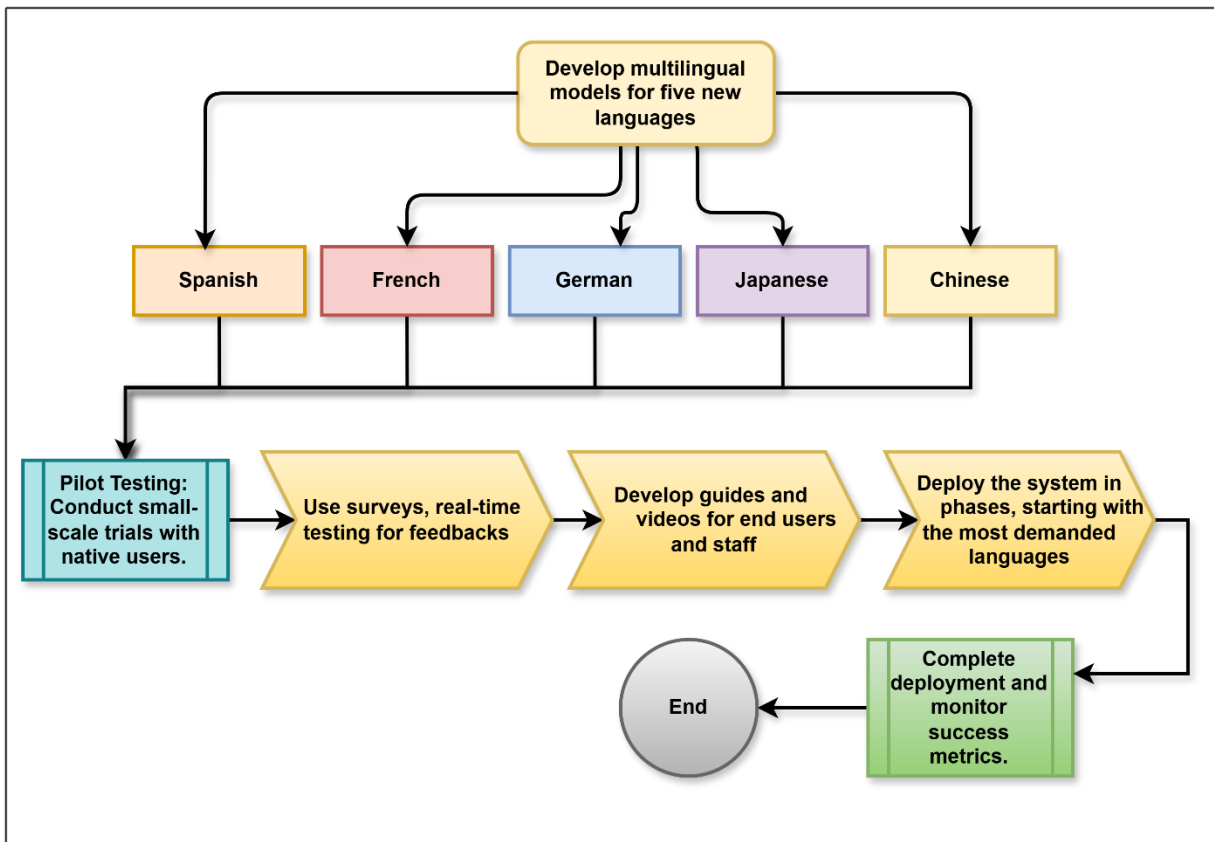
- Refine the system based on feedback from key stakeholders.
- **Steps:**
 - Collected feedback through surveys, direct interviews, and usability tests.
 - Prioritized issues based on severity and frequency during pilot testing.

4. Develop Training Materials

- Prepare resources for users and support teams.
- **Steps:**
 - Developed user guides in multiple languages for sign recognition.
 - Created training videos and interactive tutorials for easy onboarding.
 - Trained technical support teams to assist users with language-specific issues.

5. Plan for Full Implementation

- Outline a comprehensive rollout plan.
- **Steps:**
 - Rolled out the system in phases, starting with high-demand languages (French and German).
 - Set up post-launch monitoring tools to track performance and adoption metrics.
 - Communicate changes through webinars, documentation, and social media.



Success metrics include:

- **Accuracy:** Achieve 85% recognition accuracy for each new language.
- **User Adoption:** Increase adoption among non-English-speaking users by 30%
- **User Satisfaction:** Improve satisfaction scores by 25% among non-English-speaking users.