AUTOMATIC PRONOUNCIATION MISTAKE DETECTOR

INTRODUCTION

- THIS PROJECT AIMS TO HELP LANGUAGE LEARNERS AND NON-NATIVE SPEAKERS IMPROVE THEIR PRONUNCIATION SKILLS. BY DEVELOPING AN AUTOMATIC PRONUNCIATION MISTAKE DETECTOR, WE CAN PROVIDE USERS WITH INSTANT FEEDBACK AND CORRECTION, ENHANCING THEIR LEARNING EXPERIENCE. THE TOOL CAN ALSO ASSIST TEACHERS IN IDENTIFYING AREAS WHERE STUDENTS NEED IMPROVEMENT, MAKING LANGUAGE LEARNING MORE EFFECTIVE AND EFFICIENT. ULTIMATELY, THE GOAL IS TO EMPOWER USERS TO COMMUNICATE CONFIDENTLY AND ACCURATELY IN THEIR TARGET LANGUAGE.

OBJECTIVE

THE AIM OF THIS PROJECT IS TO BUILD A SYSTEM THAT LISTENS TO HOW PEOPLE SPEAK, CHECKS THEIR PRONUNCIATION, AND FINDS ANY MISTAKES. IT GIVES SIMPLE FEEDBACK TO HELP USERS SAY WORDS CORRECTLY. THIS TOOL WILL HELP STUDENTS AND LANGUAGE LEARNERS IMPROVE THEIR SPEAKING SKILLS AND BUILD CONFIDENCE.

FEATURES

1. IMPROVE PRONUNCIATION SKILLS: TO HELP LANGUAGE LEARNERS AND NON-NATIVE SPEAKERS IMPROVE THEIR PRONUNCIATION SKILLS BY PROVIDING INSTANT FEEDBACK AND CORRECTION.

2. ENHANCE LANGUAGE LEARNING: TO ENHANCE THE LANGUAGE LEARNING EXPERIENCE BY IDENTIFYING AND ADDRESSING PRONUNCIATION ERRORS, MAKING LANGUAGE ACQUISITION MORE EFFECTIVE AND EFFICIENT.

3. INCREASE CONFIDENCE: TO EMPOWER USERS TO COMMUNICATE CONFIDENTLY AND ACCURATELY IN THEIR TARGET LANGUAGE, REDUCING ANXIETY AND SELF-CONSCIOUSNESS RELATED TO PRONUNCIATION.

4. SUPPORT LANGUAGE TEACHERS: TO ASSIST LANGUAGE TEACHERS IN IDENTIFYING AREAS WHERE STUDENTS NEED IMPROVEMENT, MAKING CLASSROOM INSTRUCTION MORE TARGETED AND EFFECTIVE.

5. DEVELOP ADVANCED TECHNOLOGY: TO DEVELOP AND APPLY ADVANCED SPEECH RECOGNITION AND MACHINE LEARNING ALGORITHMS TO IMPROVE PRONUNCIATION ANALYSIS AND FEEDBACK.

CONCLUSION

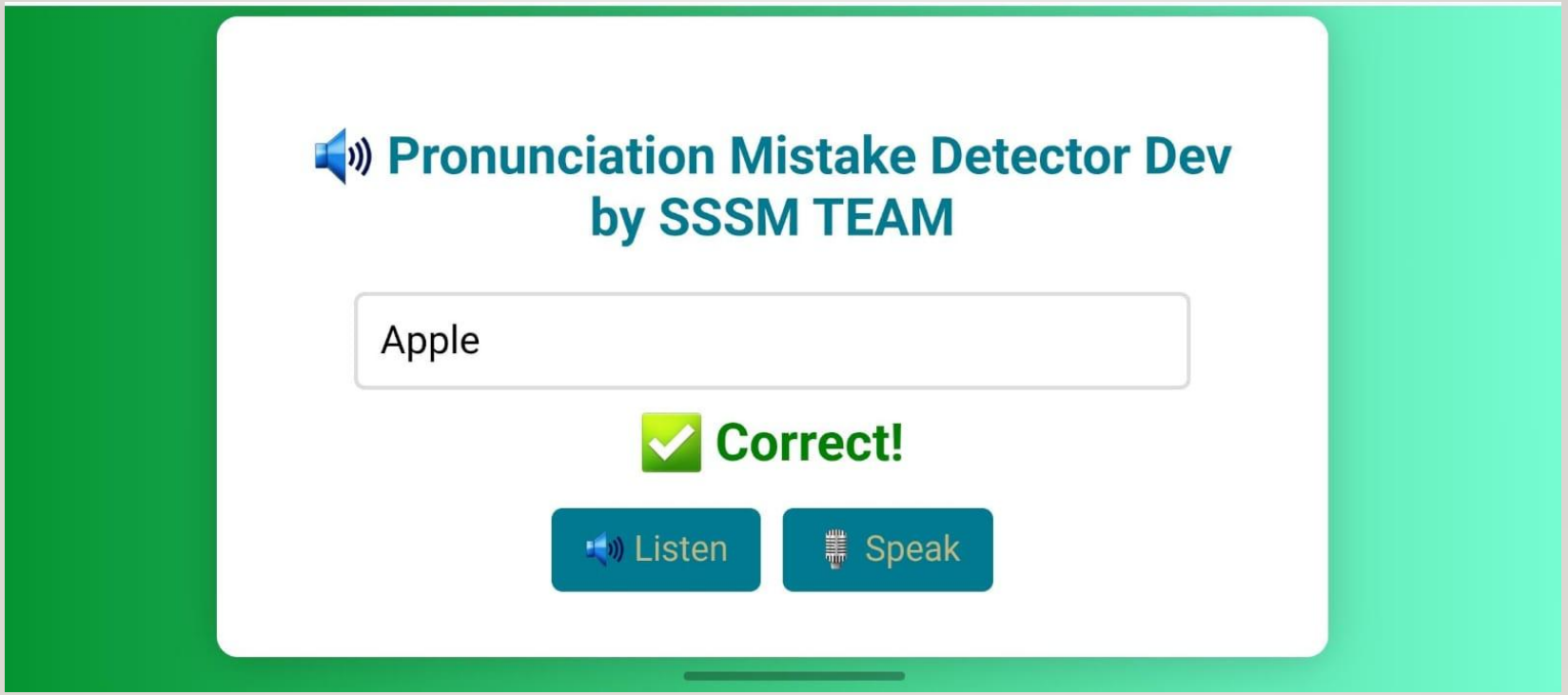
FUTURE WORKS:

1. Expanding Language Support: Adding support for more languages and dialects.
2. Integrating with Learning Platforms: Integrating the system with popular language learning platforms.
3. Developing Personalized Feedback: Providing personalized feedback and recommendations for improvement.
5. Enhancing User Experience: Improving the user interface and experience.
6. Exploring New Technologies: Investigating the use of new technologies, such as deep learning models, to improve the system's performance.
7. Conducting User Studies: Conducting user studies to evaluate the system's effectiveness and gather feedback.
8. Developing Real-time Feedback: Providing realtime feedback to users during pronunciation practice.

FUTURE WORK

◦**Mobile App Integration**
Develop mobile or web-based applications to make the tool accessible for broader usage, including offline functionality.
•**Integration with Language Learning Platforms**
Collaborate or integrate with platforms like Duolingo, Babbel, or language MOOCs for enhanced user experience.
•**Gamification for Engagement**
Introduce game-like elements (badges, levels, leaderboards) to increase user motivation and practice frequency.
•**Support for Multiple Languages**
Extend the system to support pronunciation error detection in multiple languages beyond the current scope.
•**Real-Time Feedback System**
Implement a real-time feedback mechanism to help users correct mistakes immediately as they speak.

PROJECT INTERFACE



THANK YOU