REQUIREMENT ANALYSIS

Lokesh Agnihotri

# Version Table

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| Version | Date | Author | Changes |
| 1.0 | 06/05/2023 | Lokesh Agnihotri | Initial Draft |
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# Abstract

The stakeholder wants to make an application that can help user to improve their pronunciation skills. The goal of this project is to develop a pronunciation improvement tool using speech recognition and analysis techniques. The tool will allow users to speak words, and the system will provide feedback and suggestions to help improve their pronunciation. This project will be helpful for the users to practice their pronunciation of language.

The following document discusses the requirements to make such a solution.

Requirements

The proposed solution shall fulfill the following requirements:

1. Should be able to capture input from microphone and convert it to text.

2. Analyze the pronunciation of capture word.

3. Provide feedback on the pronunciation

4. Suggest improvements to the user.

4. A simple UI so that user can

* Input words,
* receive feedback,
* view suggested improvements.

5. Test the tool and check its accuracy.

# Question for Stakeholder:

1. What kind of look and feel he wants from the application
2. How does he want the application to look like?
3. Does he have any preference over the look and technology used?
4. Does he want to practice words or whole sentences?
5. How does he want to receive feedback?
6. Does he have a preference of language?
7. Presentation date final?
8. Meeting frequency?
9. Are there any preferred coding practices or conventions or complexities that are desired?
10. Where will the code and document have uploaded for review and feedback?

Meeting with Stakeholder:

The app is for the MBO kids.

They are Dutch.

Want to learn English.

He wants to do sentences not words.

Design needs to be simple like Google page.

He will get back to me on if he needs a database of sentences or user can make his own sentences.

Remove the get feedback button it should be auto.

Highlight the bad pronunciation in different colors.

Instead of random words, it should be when you launch the app, there should be a word to practice there, and then change the color and text of random word button to “Next”.

Rehearse option needs to be there for bad pronounced sentence.

7th July is the presentation.

Once or twice a week he is available for talks and discussion.

Show no code to him.

Need 6 people for user tests.

80% accuracy is good.

A screenshot of a computer

Description automatically generated with medium confidence