

## Nutq

## Detection Application for Mispronunciation of Arabic words

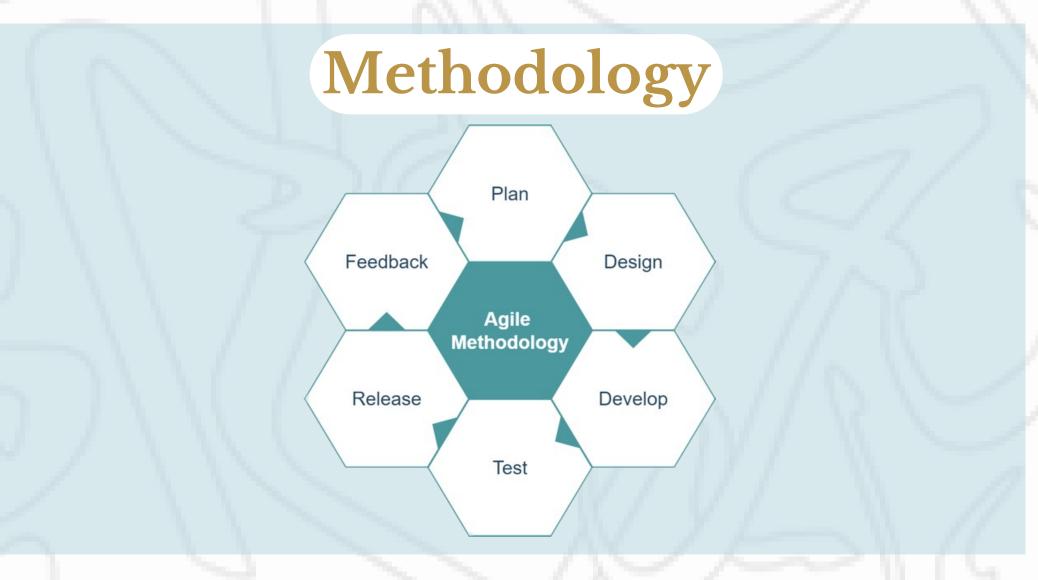


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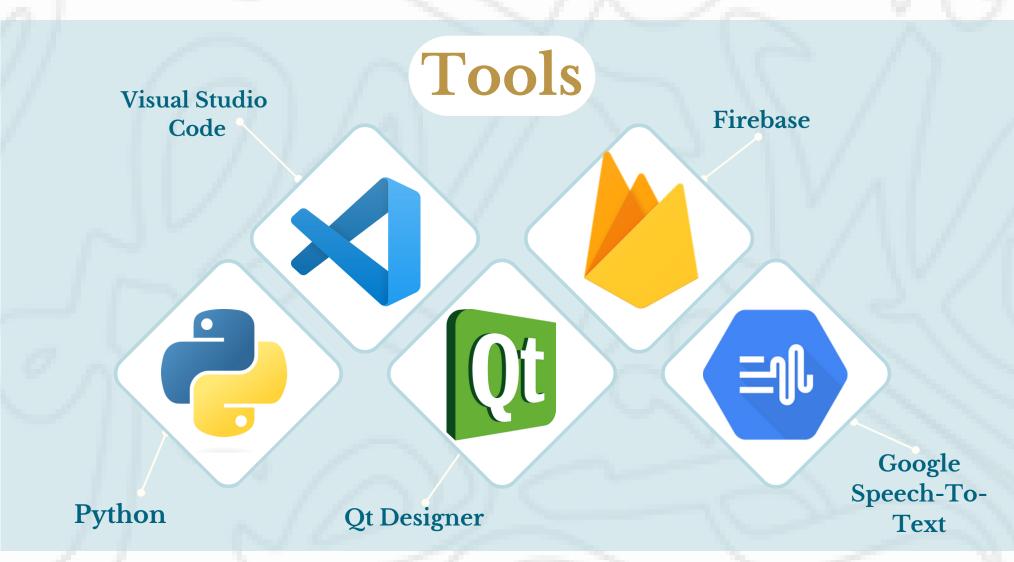
College of Computers, Department of Computer science and artificial intelligence Project ID:CS-451-P2-F36

### Abstract

The Arabic language is known for its complexity due to its linguistic and grammatical rules. Our project (Nutq) aims to help Arabic language learners face pronunciation challenges. We offer voice recognition for users to practice and receive feedback on their pronunciation. Additionally, users can review paragraphs and specific words to improve learning and enhance their Arabic pronunciation skills.

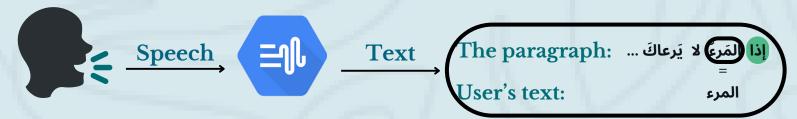


## Enhancing language learning resources for Arabic pronunciation Objectives Enhancing confidence in communication O1 O3



## How it works?





As the user clicks on the (Read) button, the API will start detecting the user's speech, convert it to text, and then compare this text with the current word in the paragraph, if it's a match the word will turn green, if not, it will turn red and the user cannot proceed to the next word until they pronounce it correctly.

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Prototype

## Conclusion

The NUTQ system would benefit Arabic learner's experience. Having a system that helps them improve their pronunciation, as pronunciation is crucial for language proficiency. This project would enhance communication and enrich teaching resources, especially for non-Arabic speaking learners.

References

صَديقٌ صَدوقٌ صادِقُ الوَعدِ مُنصِفا



وَيُطْهِرُ سِرًا كَانَ بِالأَمْسِ قَد خَفَا سَلامٌ عَلَى الدُنيا إِذَا لَم يَكُن بِها صَديقٌ صَدوقٌ صادِقٌ الوَعدِ مُنصِفا