

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.

Methodology



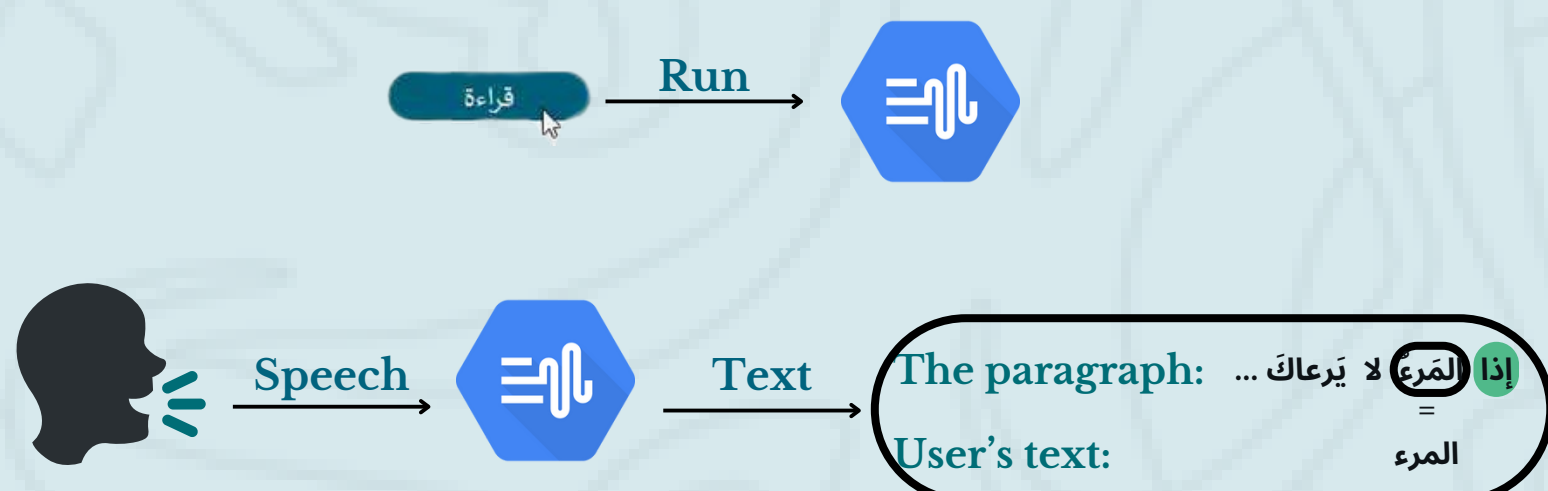
Objectives

- 01 Enhancing language learning resources for Arabic
- 02 Improving Arabic pronunciation
- 03 Enhancing confidence in communication

Tools

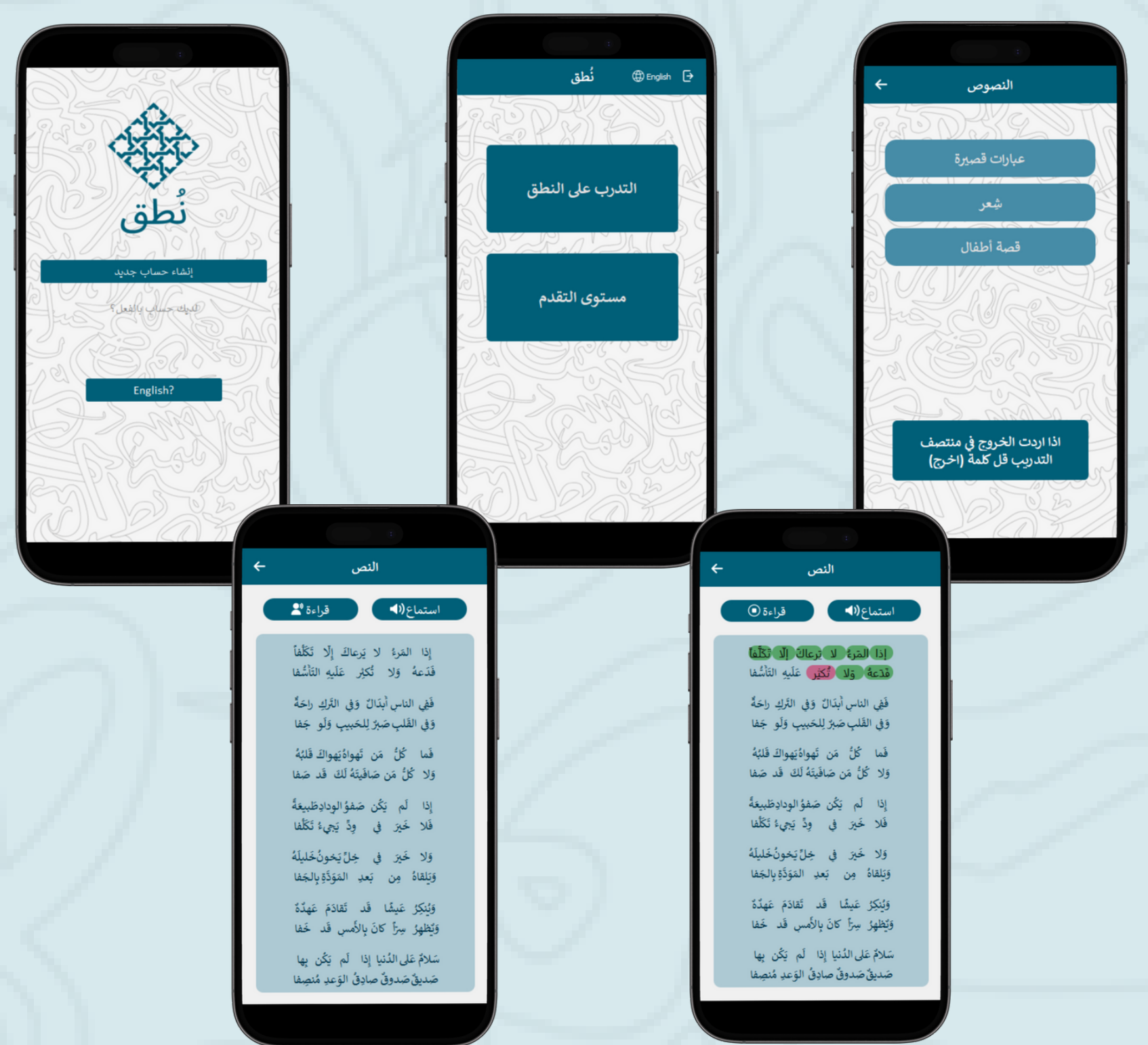


How it works?



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.

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

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