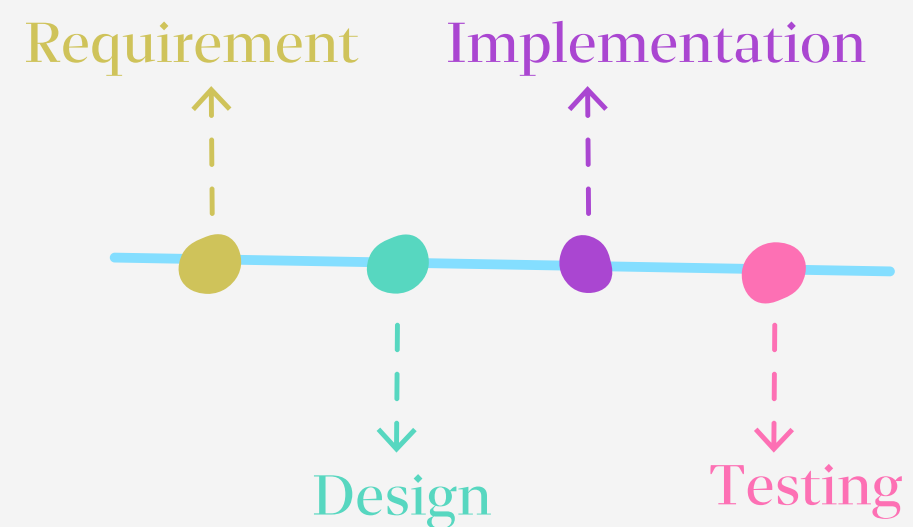


1 Abstract

The **ABAN** app is a comprehensive stuttering therapy tool designed to **support Arabic speakers**. The app uses **machine learning to diagnose stuttering severity** and provide **personalized therapy exercises** for stutterers. The study aims to validate the app's effectiveness over a designated period, focusing on Arabic-speaking individuals aged twelve and older.

The app's potential impact is significant, as it could provide a scalable, low-cost approach to stuttering therapy for the vast number of Arabic speakers worldwide.

2 Methodology



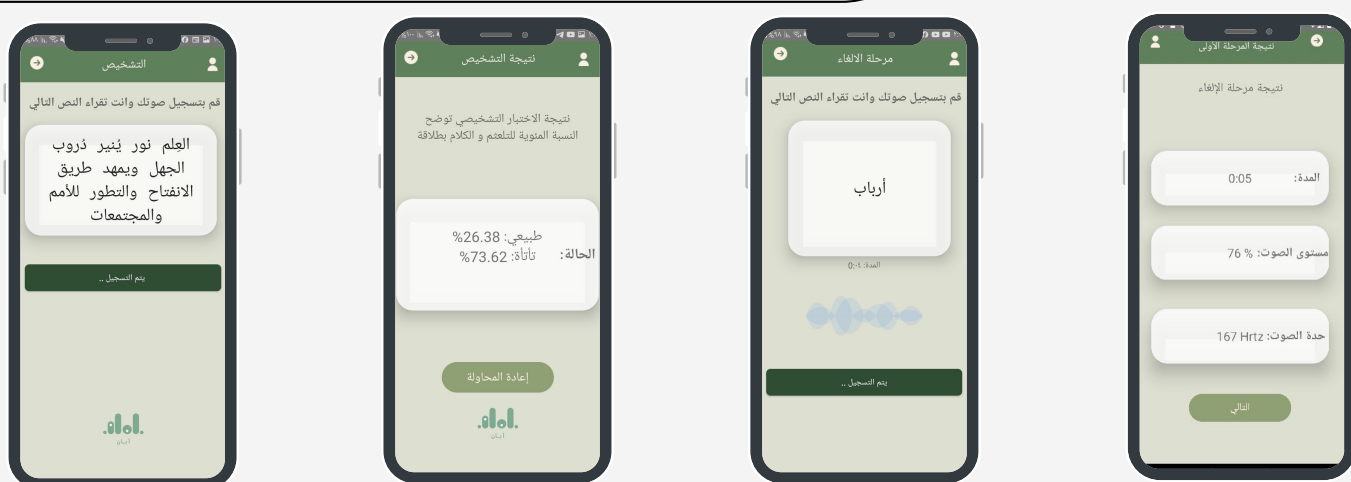
3 Objectives

- ✦ Helping people **who stutter control stuttering** through **speech therapy**.
- ✦ Use the **AI to diagnose** the rate of stuttering and save results for tracking the improvement of the user.
- ✦ Develop ABAN application in **Arabic language**.

4 How it is work



5 Interface



7 Tools



8 Conclusion

In conclusion, the Aban application contains many features that help people who stutter to control stuttering by providing a diagnosis that uses AI and speech therapy. The application aims to make treatment available and help people speak fluently. With continued development and evaluation, the Aban app may become a valuable new resource both for people who stutter and for the speech pathology clinicians dedicated to helping them.

6 Future Work

- ✦ Determine the type of stuttering.
- ✦ Users can choose specific words and practice them.
- ✦ Creating specialized exercises tailored to each individual's specific condition.
- ✦ Using AI to generate stories and poetry according to the user's preference.