

Introduction

Reading is a fundamental skill that plays a key role in academic success and in participation in society. Consequently, reading difficulties can affect individuals and society as a whole. Dyslexia is a learning disorder characterized by difficulties in reading, primarily caused by challenges in identifying speech sounds and understanding their correspondence with letters and words.

Abstract

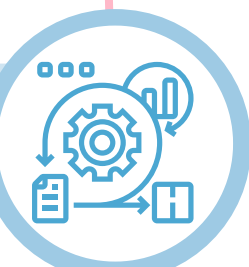


Yusr is an app for diagnosing dyslexia in children at an early stage to prevent academic delays and minimize negative impacts. To ensure a high level of accuracy in diagnosis, the diagnostic test is divided into three sections: symptoms detection, developmental skills test, and academic skills test. With the guidance of Taalom, a character within the app who assists the child throughout the test, the app provides a game-based and interactive testing experience that is more child-friendly.

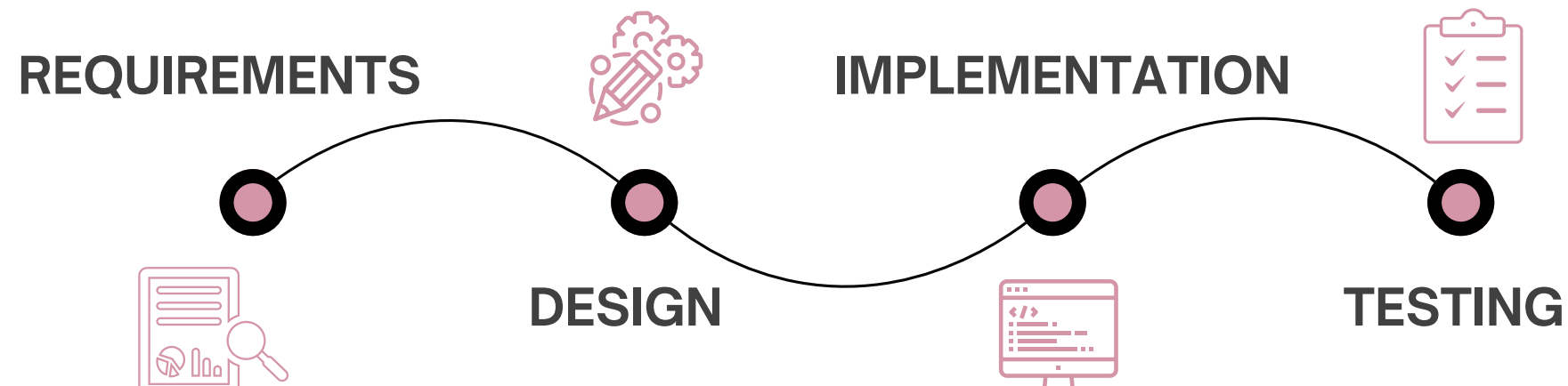
Objectives

- Develop an application to diagnose dyslexic children in Arabic.
- Facilitating the diagnosis process for dyslexia specialists.
- Measuring the Child's developmental and academic skills.

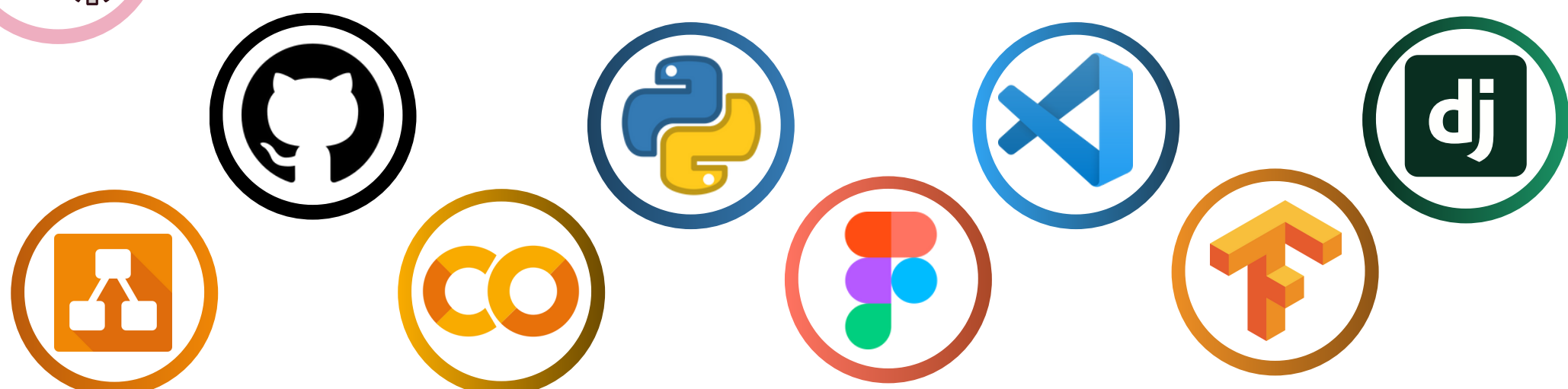
Methodology



Waterfall Methodology:



Tools



User Interfaces



Future Work



- All letters will be included for testing.
- A reading fluency test will be added.
- A reading comprehension test will be added.
- A section for chatting with a dyslexia specialist will be added.
- The user will be able to monitor the child's progression by doing more than one test and view previous results.

Conclusion

Yusr app addresses existing problems in the field of diagnosing developmental dyslexia and proposes a novel solution using deep learning techniques. By leveraging the power of artificial intelligence, the app can infer a percentage indicating a child's likelihood of having dyslexia, thereby assisting affected children in receiving early interventions.



Contact



References



Demo