# BVRIT HYDERABAD
# College of Engineering for Women
(UGC Autonomous)
## Department of Information Technology

**8**  ## READEASE : EMPOWERING DYSLEXIA

## ABSTRACT
ReadEase : Empowering Dyslexia is a dyslexia-friendly platform with specialized fonts, image-to-text-to-speech conversion, and tailored exercises for dyslexic users. It prioritizes user-friendliness, performance tracking, and satisfaction to enhance literacy skills and foster inclusivity. The platform's ultimate goal is to create a more supportive and inclusive environment for dyslexics, promoting their empowerment and success.

## UNIQUENESS

- Innovative Integration
- Customized Learning Experience
- Dyslexia-Support Platform
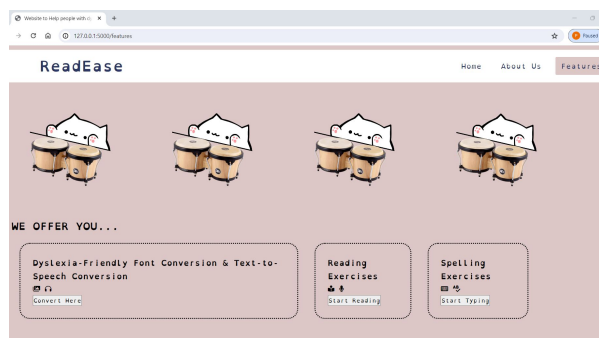- Interactive Learning

## METHODOLOGY
The methodology employs a user-centered design approach, starting with in-depth research into dyslexic learners' needs and iterative development guided by user feedback. Accessibility is prioritized through dyslexia-friendly fonts and alternative content formats, ensuring the platform meets specific requirements and enhances usability for dyslexic users.

## SOCIETAL USE
The project, in line with SDG 4 Quality Education and SDG 5 Gender Equality, improves literacy and inclusivity for dyslexic individuals through accessible tools and personalized learning experiences. It empowers learners to overcome challenges, enhancing educational outcomes. Additionally, by raising awareness of dyslexia, it fosters a more inclusive society for individuals with diverse learning needs.

### ReadEase Platform



### Results & Analysis

| User Number | Final Score Before Practicing | Final Score After Practicing |
|---|---|---|
| 1 | 5 | 8 |
| 2 | 3 | 5 |
| 3 | 2 | 9 |
| 4 | 3 | 6 |
| 5 | 4 | 7 |

## REFERENCES
[1] D. S. R. K. L. T. R. G. M. M. GOKUL YENDURI, RAJESH KALURI and D. J. BROWN, "From assistive technologies to metaverse—technologies in inclusive higher education for students with specific learning difficulties," IEEE Access, vol. 11, 2023.

[2] M. D.-J. M. Attracta Brennan, Tara McDonagh, "Cosmic sounds: A game to support phonological awareness skills for children with dyslexia," IEEE Transactions on Learning Technologies, vol. 15, no. 3, pp. 301-310, vol. 15, 2022

## GITHUB LINK
https://github.com/VARSHITHAPURAM/ReadEase-Empowering-Dyslexia

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