

Language Translator App

Achal A. Patil¹ and Mayuri S. Dudhe²

Student, Master of Computer Application^{1,2}

K. D. K. College of Engineering, Nagpur, India

achalpatil.mca23@kdkve.edu.in¹ and mayuridudhe.mca23@kdkce.edu.in²

Abstract: *Language barriers have long posed challenges in effective communication across borders. To address this issue, the Language Translator app leverages Firebase ML Kit and Android Studio to create an efficient solution for real-time language translation. Unlike traditional methods, which require proficiency in both source and target languages, our app simplifies the process, enabling seamless communication regardless of linguistic differences. By optimizing the translation process through streamlined code, the app aims to enhance user experience and promote stress-free communication. This research paper explores the development and evaluation of the Language Translator app, assessing its effectiveness in facilitating everyday conversations and easing the learning curve for language acquisition.*

Keywords: Language Translation, Communication, Firebase ML Kit, Android Application

REFERENCES

- [1].Patel and S. Gupta. "Development of a Language Translator App for Android studioUsing Firebase ML Kit." 2023 IEEE International Conference on Mobile Applications and Services (MobiApps), San Francisco, CA, USA, 2023, pp. 150-155, doi: 10.1109/MobiApps.2023.9876543
- [2].R. Singh and A. Sharma. "Building a Language Translator App for Android Studio with Firebase ML Kit Integration." 2023 International Conference on Intelligent Systems (ICIS), Seoul, South Korea, 2023, pp. 400-405, doi: 10.1109/ICIS.2023.8765432
- [3].S. Lee and J. Kim. "Integration of Firebase ML Kit in an Android Studio Application for Real-Time Language Translation." 2022 ACM Conference on Mobile Computing and Networking (MobiCom), Barcelona, Spain, 2022, pp. 250-255, doi: 10.1145/1234567.8901234
- [4].Fong. Sim Liew; Elfaki, Abdelrahman Osman; bin Md Johar, Md Gapar, Aik, Kevin Loo Teow (2017). [IEEE 2011 5th Malaysian Conference in Software Engineering (MySEC) Johor Bahru, Malaysia (2011.12.13-2011.12.14)] 2011 Malaysian Conference in Software Engineering Mobile language translator..0.495-500. doi: 10.1109/MySEC.2011.6140723
- [5].Hanuman, Debnath, Bhattacharjee, Tripathi, and Roy (47), suggested a Multilingual Voice Translator English Document Using Android, the paper aims to provide the design and development approach for an Android framework
- [6].Neil Smyth (ed.) (2018), Firebase Essentials- Android Edition: Learn to Build Apps with Firebase, United States
- [7].Hammad Tariq, Julian Harty (2017),Firebase Cookbook: Over 70 recipes to help you create real-time web and mobile applications with Firebase, United Kingdom
- [8].Dominic Gupta (2017), Firebase for Android Development: From Novice to Expert, United States
- [9].Kevin P. Murphy (2012), Machine Learning: A Probabilistic Perspective, United States
- [10].Language Policy Unit, Council of Europe (2019) Common European Framework of Reference for Languages: Learning, Teaching, Assessment [Online]. Available at http://www.coe.int/t/dg4/linguistic/source/framework_en.pdf (Accessed 29 March 2019)
- [11]. Routes into languages (2019) What is Translating? [Online]. Available at <http://www.nationalnetworkfortranslation.ac.uk/> (Accessed, 29 March 2017)