

# From Tools to Teachers: Enhancing Writing Skills Through Homophone Correction in ASEAN and Beyond

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## Background

- Authors often struggle with spelling errors, especially **Homophones**
- Existing tools mainly target grammatical and spelling errors enhancing writing quality but **NOT** necessarily **IMPROVING** writers' skills.
- Writers' confidence hasn't significantly increased when working without AI or current spell-check tools.



# Target: Those who use text communication



Students and  
academic

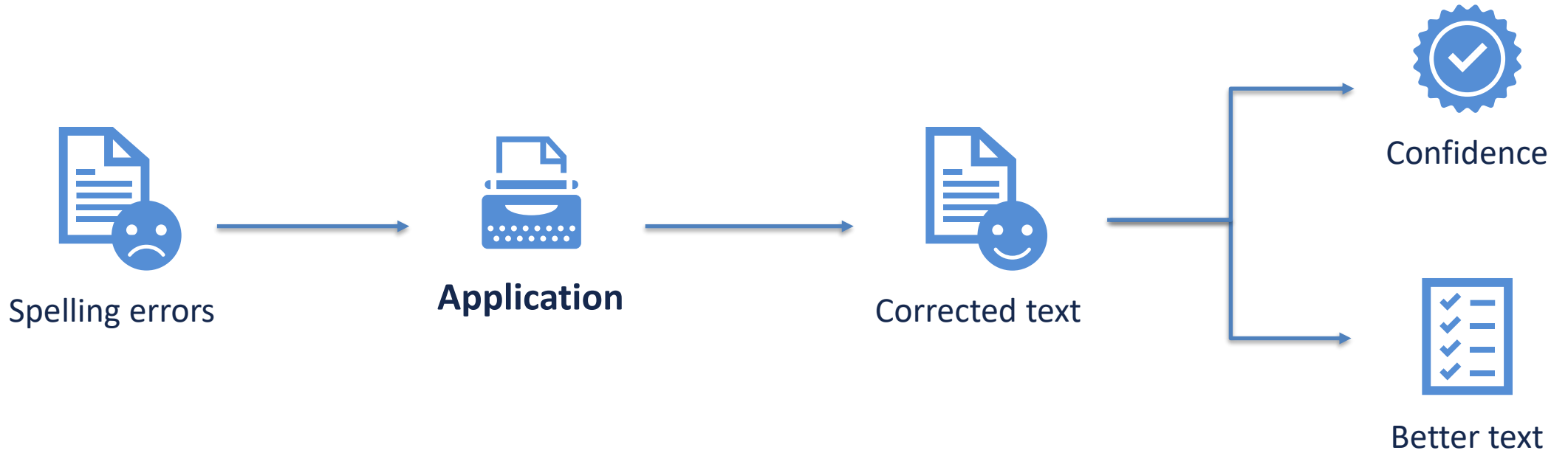


Professional writers  
and editors



General users

# Proposed Methods



# Proposed Methods



Natural Language  
Processing



Learning Analytics

# Impacts – What impacts?



Enhance writing  
quality and  
professionalism



Improve  
language and  
comprehension



Proficiency in  
proofreading and  
editing



Reduce  
confidence in  
writing



Promotion of  
digital literacy

# Impacts – Whom?



Instructors and  
Learners



Students and  
educators



General public



Business and  
organization



Professional  
writers

## Expected Outcomes



A homophone spelling correction model that enhance authors' writing ability



Dataset of target language (Khmer, Thai, Laos, Myanmar) for future application development



Microsoft word add-on and Chrome extension for homophone spelling correction



## Conclusion



Our model aims to solve homophone errors of users as well as enhance their writing skill for authors



By combining NLP technique and LA approach, we will get homophone spelling correction model to assist in our writing work



It is not only benefit for students, but for everyone those who use text in their communication and work.

# Thank you for your attention!

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