

# Development of a chatbot for oracy skill development in schools

Proposer(s) / Proposatzailea(k): Nora Aranberri, Arantxa Otegi

Contact / Kontaktua: nora.aranberri@ehu.eus

## Description / Deskribapena

It has long been claimed that oracy skills are linked to successful reasoning and learning. This notion of oracy skills and development strategies are slowly entering our education system. Often, however, class-size compromises the efficient implementation of dialogical approaches to teaching/learning. It looks like chatbot technology could alleviate this bottleneck. This project sets to focus on a number of concrete features this chatbot should have to enrich an existing baseline dialogic bot for discussion activities in Secondary Education.

## Goals / Helburuak

To select a relevant feature for a chatbot that aims to guide a topic discussion in Secondary Education and implement it to enrich the baseline chatbot.

## Requirements / Betebeharrak

Education/Linguistic/Computer science background, programming skills

## Framework / Esparrua

NLP applications for education –chatbots for oracy skill development

## Tasks and plan / Atazak eta plana

- Analyse the weaknesses of the current baseline bot designed to guide topic discussions in Secondary Education
- Consider the features it should have according to the oracy skills development principles and the dialogic teaching approach (a feature list is already available from a previous work)
- Assess their feasibility and select a feature
- Implement the feature and evaluate it
- Write up the report

## References

- Major, L., Warwick, P., Rasmussen, I., Ludvigsen, S., & Cook, V. (2018). Classroom dialogue and digital technologies: A scoping review. *Education and Information Technologies*, 23(5), 1995-2028.
- Mercer, N. Wegerif, R., and Major, L. (eds.) (2019). *The Routledge International Handbook of Research on Dialogic Education* (Routledge International Handbooks of Education).
- Mercer, N., Warwick, P., & Ahmed, A. (2017). An oracy assessment toolkit: Linking research and development in the assessment of students' spoken language skills at age 11-12. *Learning and Instruction*, 48, 51-60.
- Wegerif, R. (2007). *Dialogic education and technology: Expanding the space of learning*(Vol. 7). Springer Science & Business Media.