



# iAmTeacher

Open Source AI Voice Tutor

Proof-of-Concept

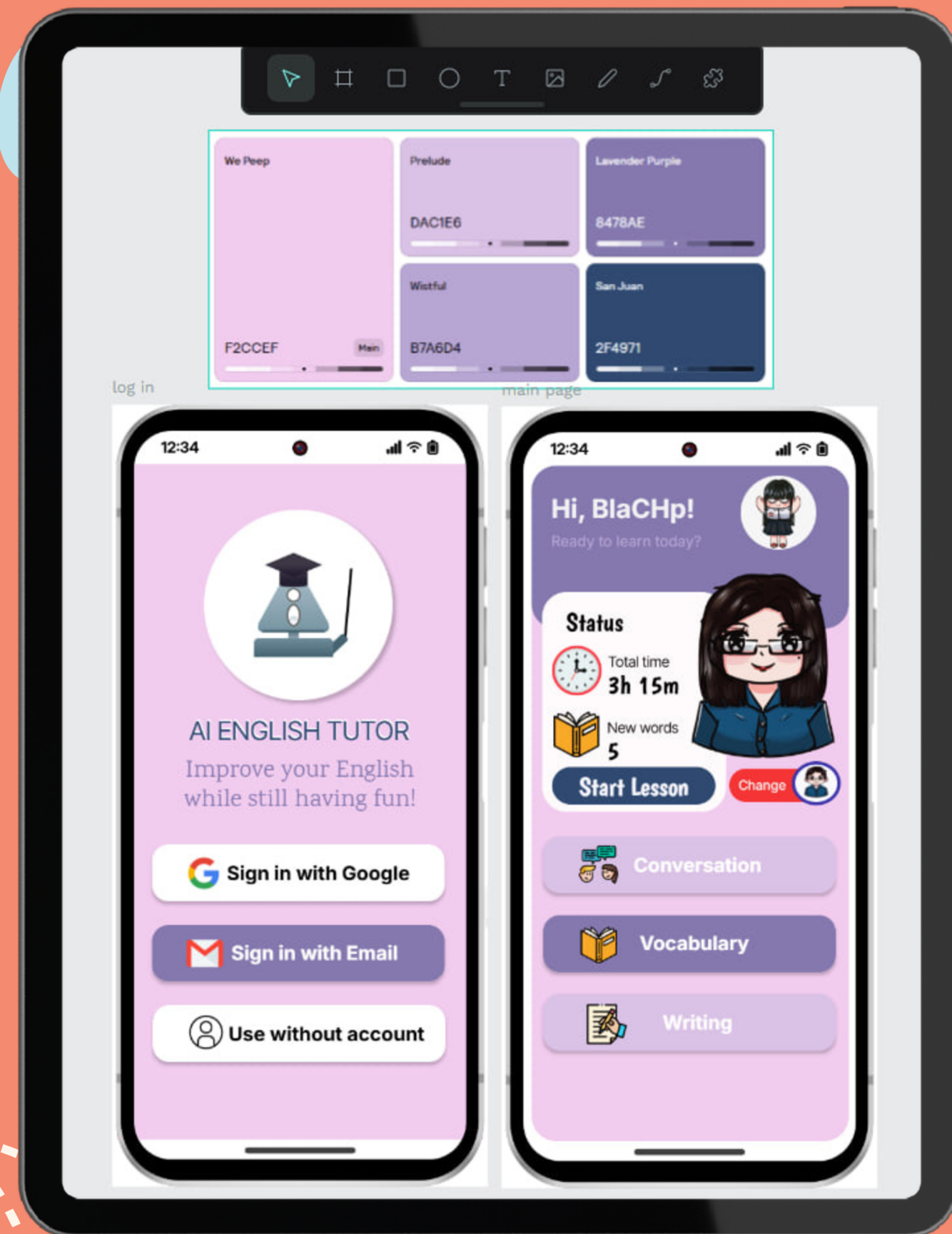
Presentation by Pongpeera Wongprasitthiporn

- *Founder at TechTransThai*
- *IT Specialist at Double P Enterprise Co. Ltd.*



MADE POSSIBLE BY





How can we bring better English education to rural students who don't have access to capable teachers? iAmTeacher is an open source, voice-based AI tutor that helps students practice speaking English in a fun, interactive way. The project demonstrates how AI and FOSS can help bridge education gaps.

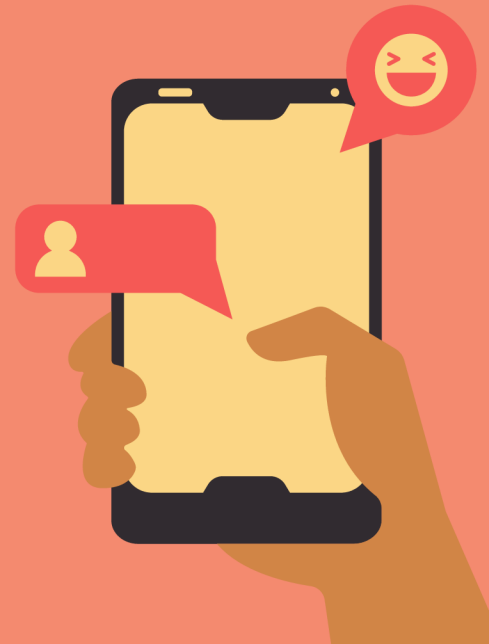
\*Not a representation of the final design

# INTENDED TARGET

*“Primary school children in rural areas”*



Facing shortage of  
qualified teachers



Limited access to quality  
education resources







# Key Highlights

**Fully open source  
project  
(AGPLv3 + Zymple)**

**Voice generation  
using OpenAI,  
but allows using  
alternatives in the  
future**

**Lowers  
educational  
costs**

**Audio files  
reusable for  
further  
development**

**Accessible to all  
children,  
regardless of  
location or income**





Listening



Speaking



Reading



Writing



**iAmTeacher**

# CORE FEATURES

- Lightweight design that doesn't drain device resources
- Comprehensive learning covering
- Assessment and progress tracking



# HOW IT WORKS



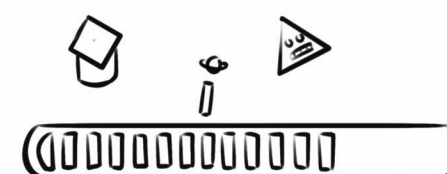
Students say something



ตัวเตอร์: Oh,  
interesting choice!  
So, did Herobrine go  
on an adventure?

เริ่มการโทร

OpenAI Realtime API  
transcribes it



AI processes  
the query

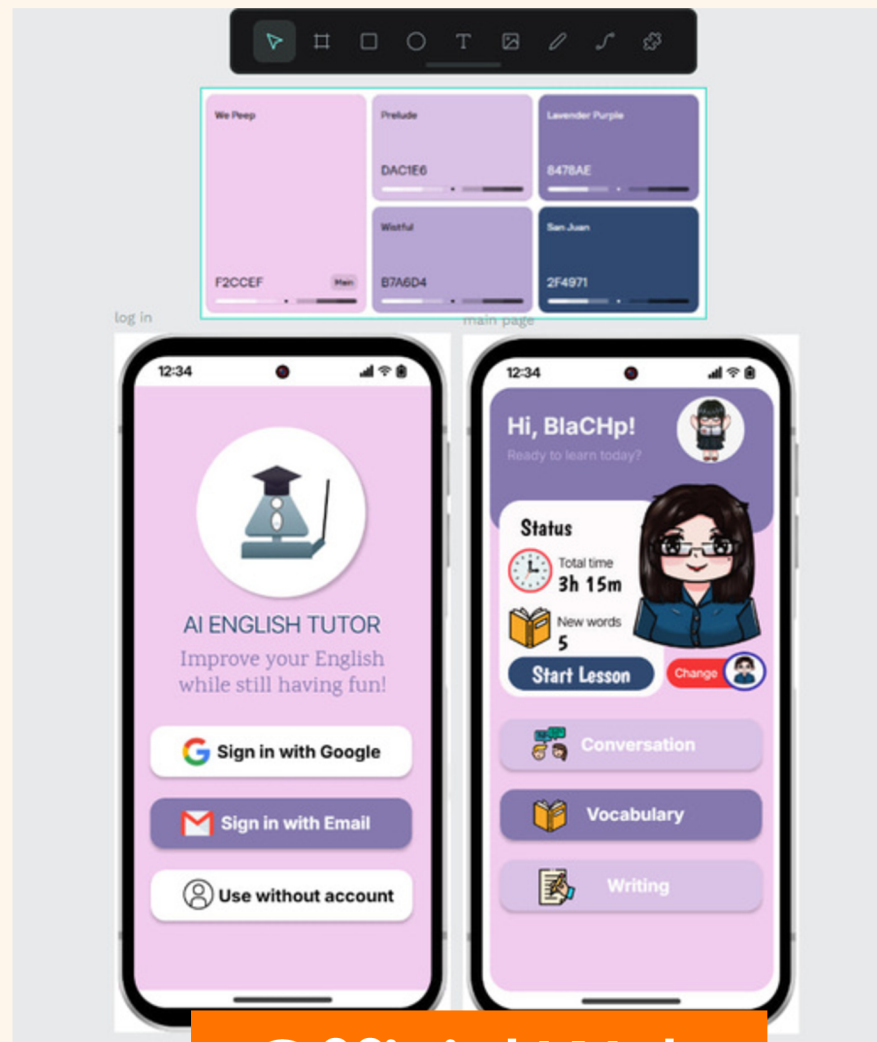


OpenAI Realtime API  
gives spoken answer





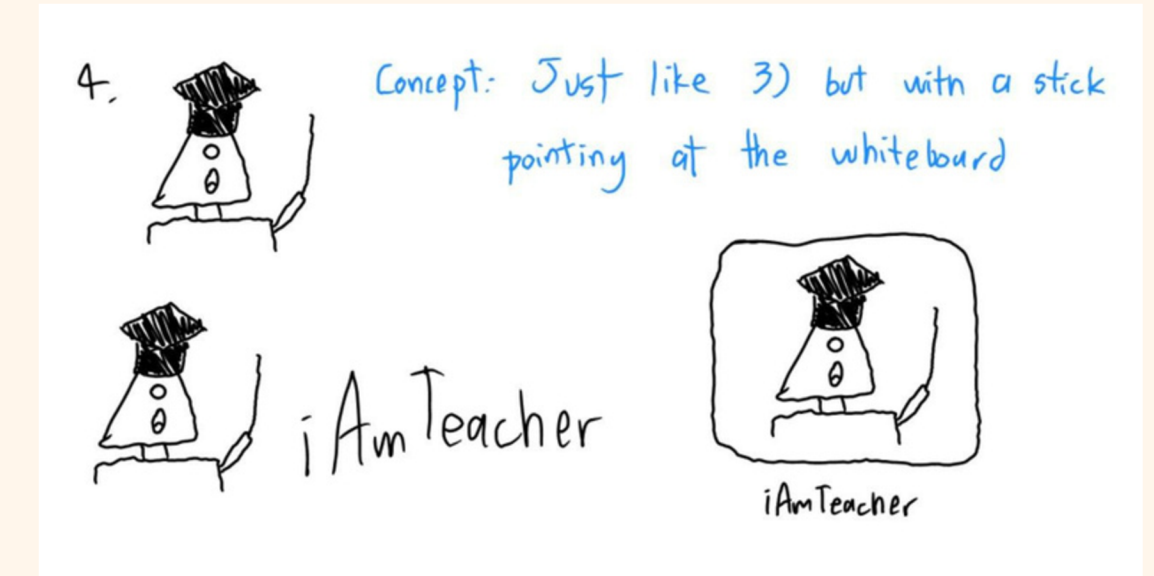
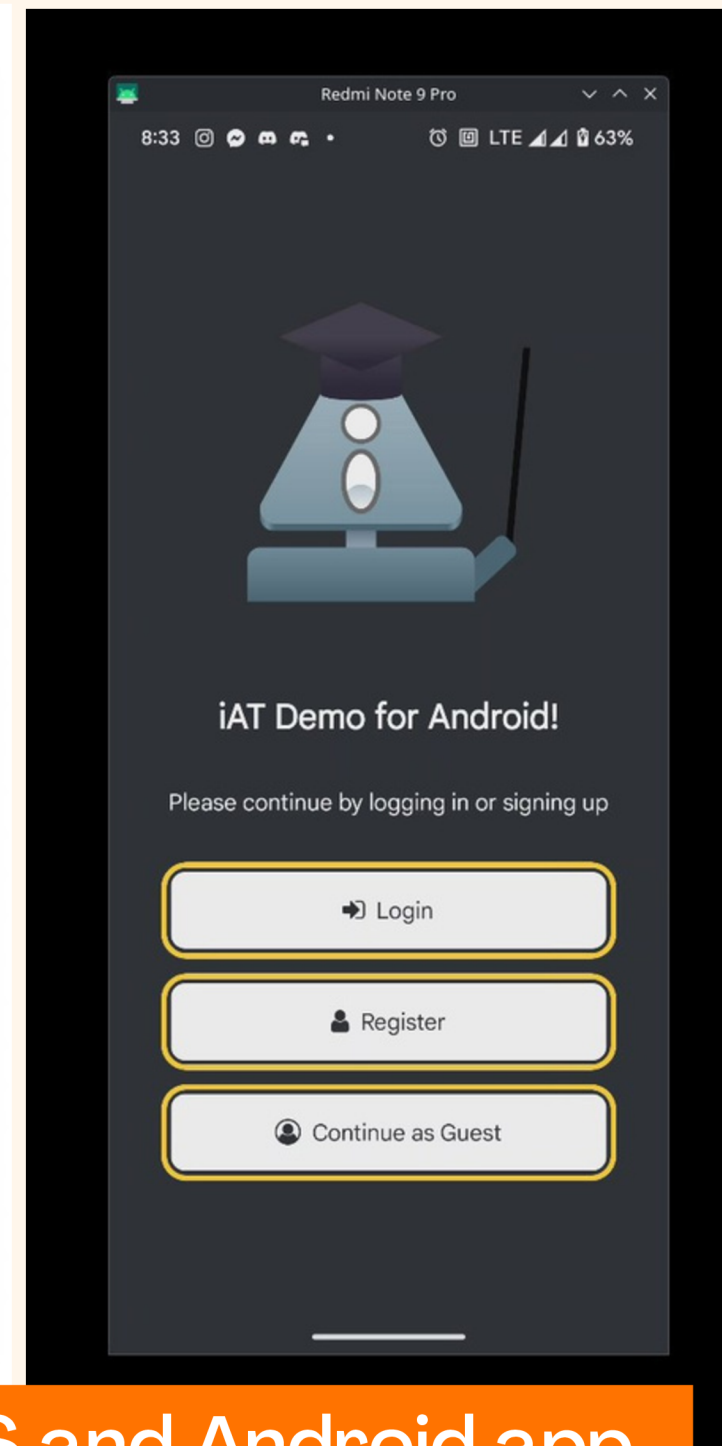
# Development and Design



Official Web  
version



Community iOS and Android app



Logo concept:  
triangle-faced robot resembling A,  
has 1 eye and mouth open resembling i,  
graduation cap resembling T,  
with a stick pointing at the whiteboard

Name concept:  
“I, Robot” combined with common  
grammar mistake in Thailand that is  
“I am teacher” and not “I am a teacher”  
also lowerCamelCase



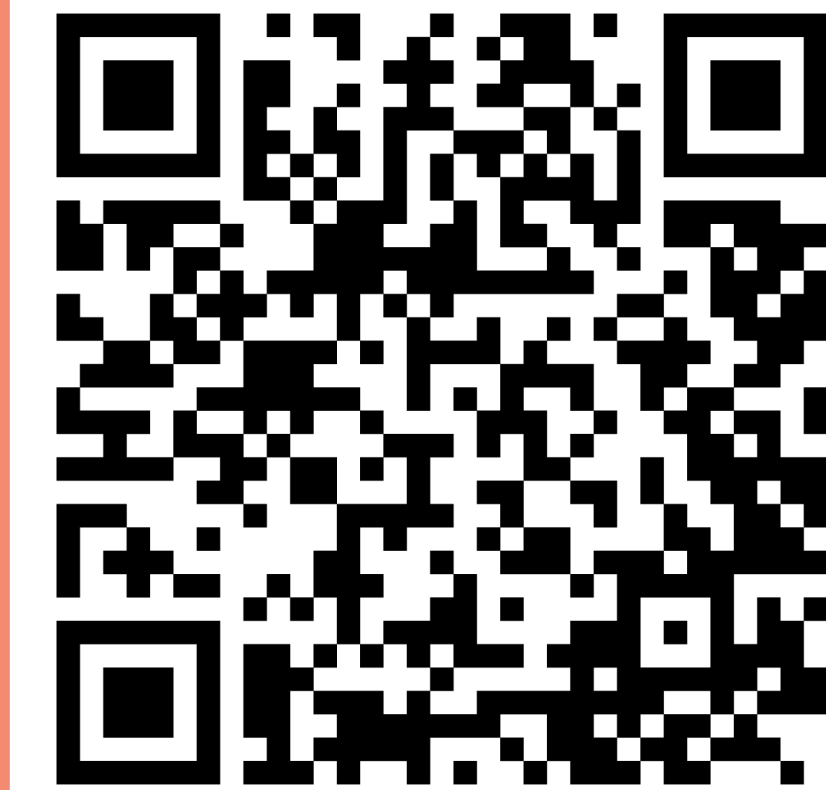
# TECH STACK

- Backend: Express
- Frontend: React (Vite SSR)
- Voice Recognition: GPT-4o Transcribe, connected via WebRTC
- Text-to-Speech: *Whatever OpenAI Realtime API provides*
- Language Model: GPT-4o



# Demo

Let's see iAmTeacher in action!



<https://iamteacher-fossasia-demo.techtransthai.org/>

\*this demo instance will be TERMINATED  
after the event ends



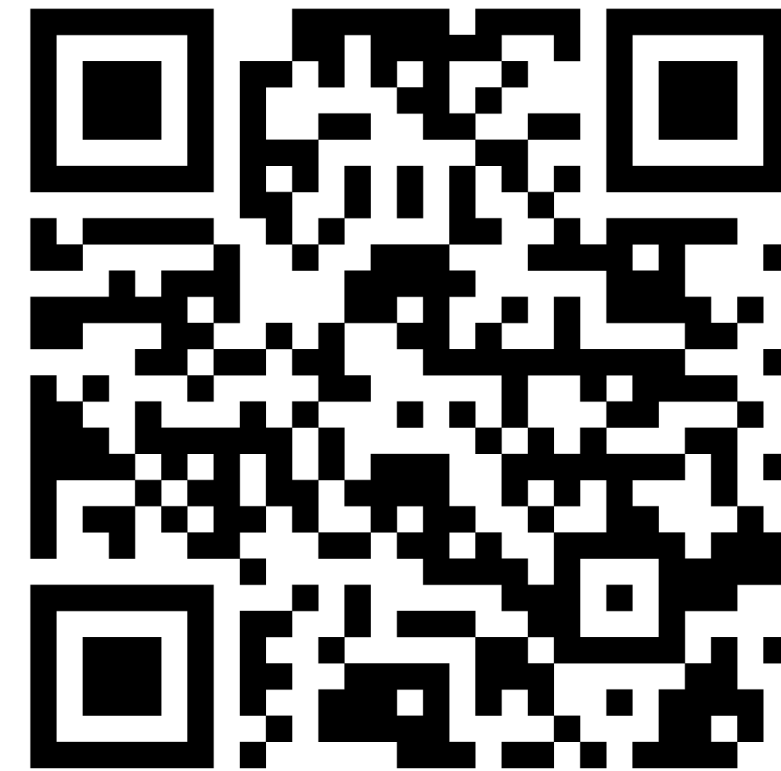
# CONTRIBUTING



GitHub



Telegram Group



# WHY OPEN SOURCE?

- Customizable for local languages
- Encourages community contributions
- Enables faster innovation









**THANK YOU, FOSSASIA AND THE  
OPEN SOURCE COMMUNITY!**

**“LET’S MAKE VOICE-BASED LEARNING  
ACCESSIBLE FOR ALL”**



Check out my website for ways to contact!  
<https://pongpeeraw.techtransthai.org/>  
*Self hosted!*

