

# The Efficacy of Mobile Learning and Trends in App Development



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Founder, Eduling  
Chief Learning Officer, Pangea Chat  
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# How are you feeling?



As energetic as fireworks

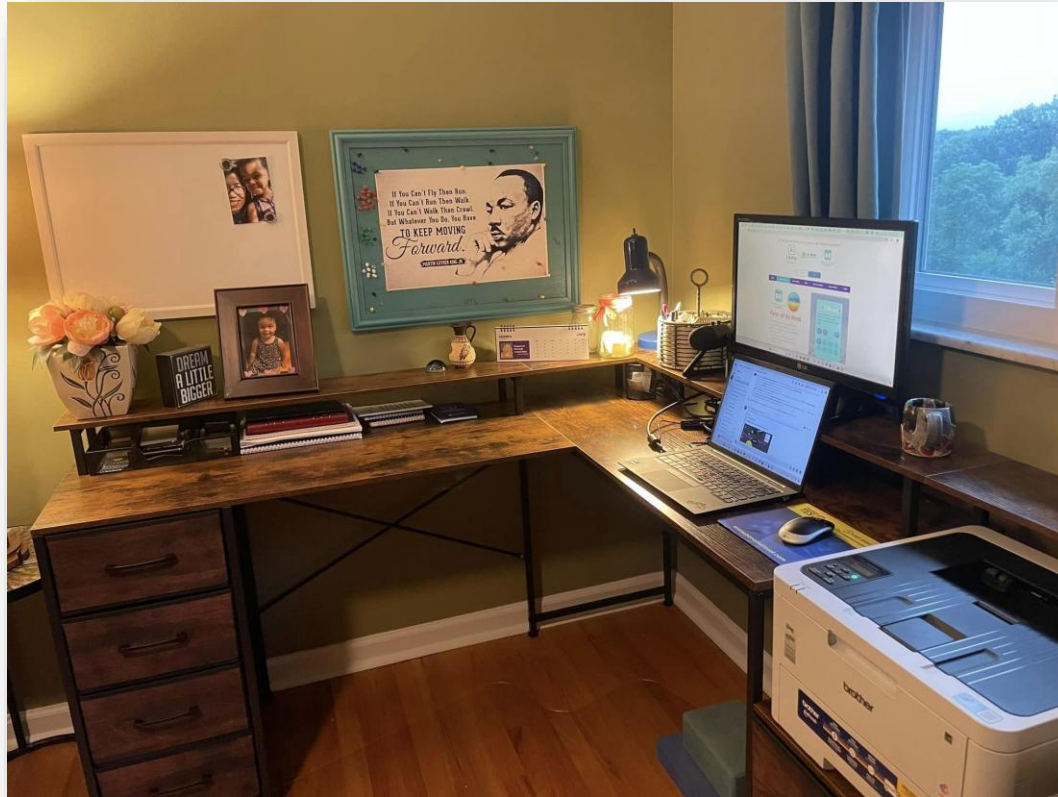


Relaxed like flowers in the morning sun



Feeling blue and a little under the weather

# Questions



- What challenges in the classroom are you facing?
- What would you like your students to do more of?
- How much time do you/your students spend on their mobile devices?
- Have you integrated mobile learning into your teaching?

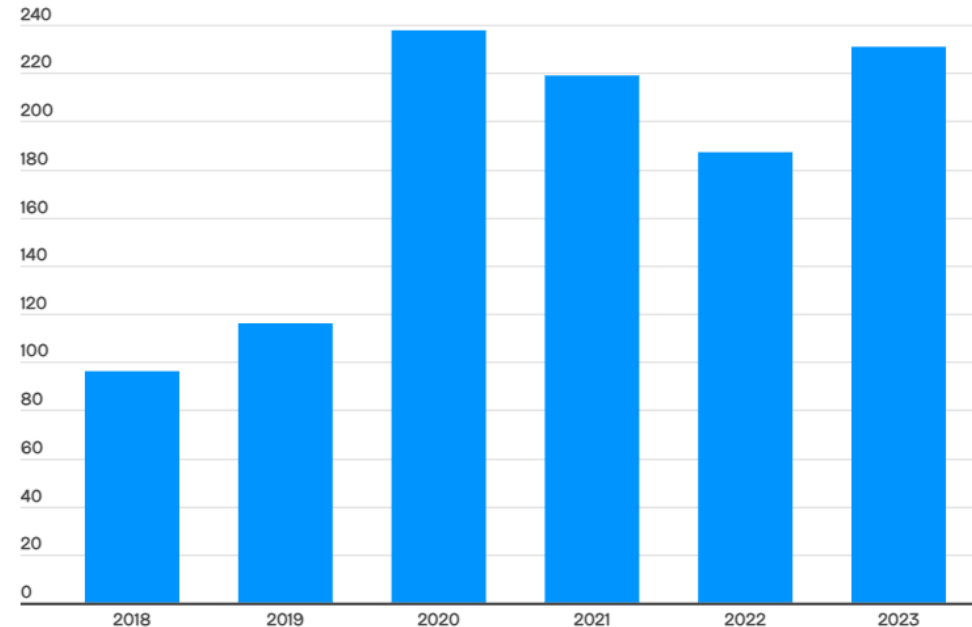
# The rise of language learning apps

- More learners have turned to apps to learn a language.
- Language learning apps were downloaded **231 million times** in 2023.

## Language Learning App Downloads

Language learning apps were downloaded 231 million times in 2023, an improvement on 2022 but still below 2020 levels.

### Language learning app downloads 2018 to 2023 (mm)



Sources: [Appfigures](#), [AppMagic](#)

[Download Chart](#)



# What is Mobile Learning or MALL?

- Learning a second or foreign language through the use of one or more of various mobile devices (Stockwell, 2022)



# Potential of MALL (Reinders & Pegrum, 2022)



a linking of the  
local and the  
global



a linking of the  
episodic and the  
extended



a linking of the  
personal and  
the social



mobility of the  
devices,  
learners, and  
learning  
experience

# Other benefits

- flexible, customized, self-paced
- improving students' engagement through gamification and other design elements
- promoting learner autonomy through self-regulated learning strategies



# Is mobile learning effective?

- Burston & Giannakou's (2022) meta-analysis
  - **3,500** MALL-related studies, overviews, and meta-analyses since the early 1990s
  - **Positive impacts** when comparing mobile vs. non-mobile learners and improvements between pre- and post-tests
  - But most studies focuses on vocabulary (34%), reading (20%), and grammar (12%)





# What the research shows

- 3-months of study on Babbel with an average of **11.61 hours → 0.7 of an ACTFL level in speaking** (Loewen et al., 2020)
- 26.8 hours on Duolingo in three months → **one ACTFL sublevel in oral proficiency** from Novice High to Intermediate Low (Smith et al., 2024)
- The **number of sessions** predicted better learning outcomes (Smith et al., 2024)
- At the lower level, app-based learning seems to be as effective as classroom-learning and requires less time. It can be because it relies on **short episodes that occur more regularly**

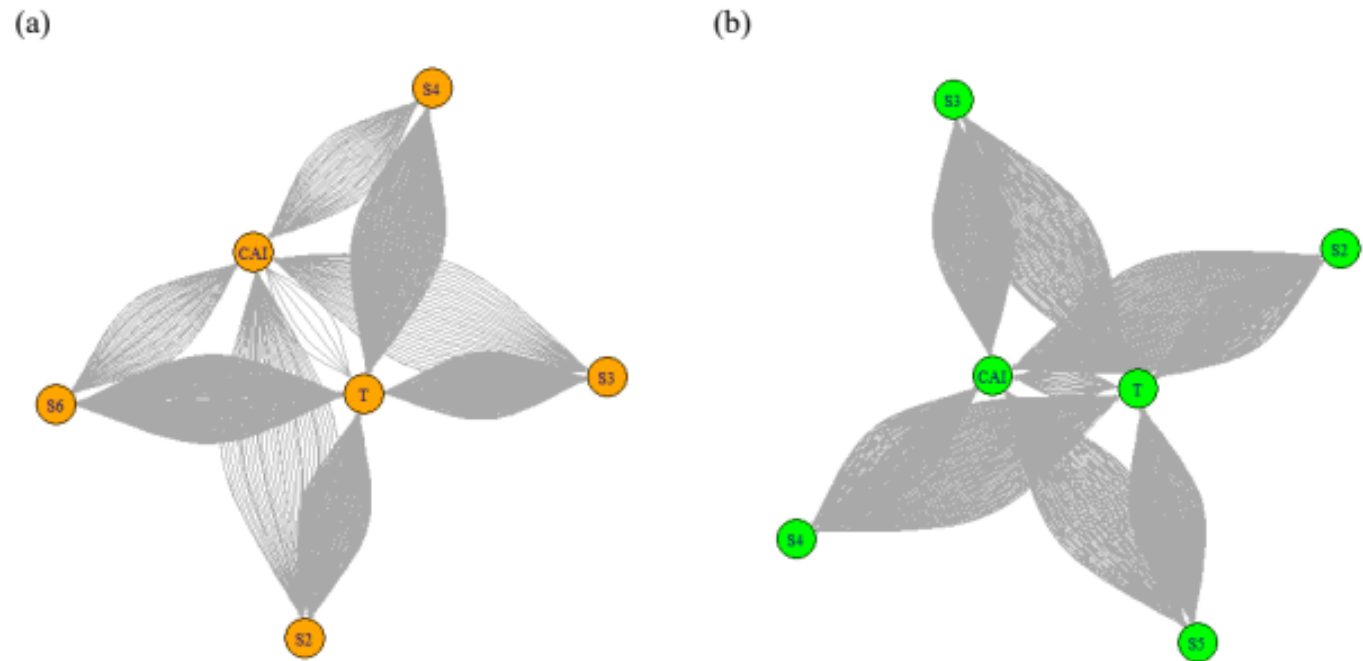


# AI in the Room























- Teacher-Student-AI interactions
- Teacher and CAI are still the center
- Students became more comfortable interacting with AI

**Figure 1**

*Sociogram of (a) First Class and (b) Second Class*



# Incorporation of AI

	Eduling Speak	LingoStar.AI	Pangea Chat	ELSA
Translation, STT, TTS				
Feedback to learner				
Content: Text and images				
Chatbot				
Enhancing social interaction				
Assessing learners' level				
Other AI features				

# Other Trends and Perspectives



**Richard Medina**  
Project Lead  
LaunchPad



**Anthony Spadafino**  
Founder and CEO  
LingoStar.AI



**Linh Phung**  
Founder & CEO  
Eduling Speak



**Vu Van**  
Co-Founder & CEO  
ELSA



**William Jordan-Cooley**  
Founder and CEO  
Pangea Chat

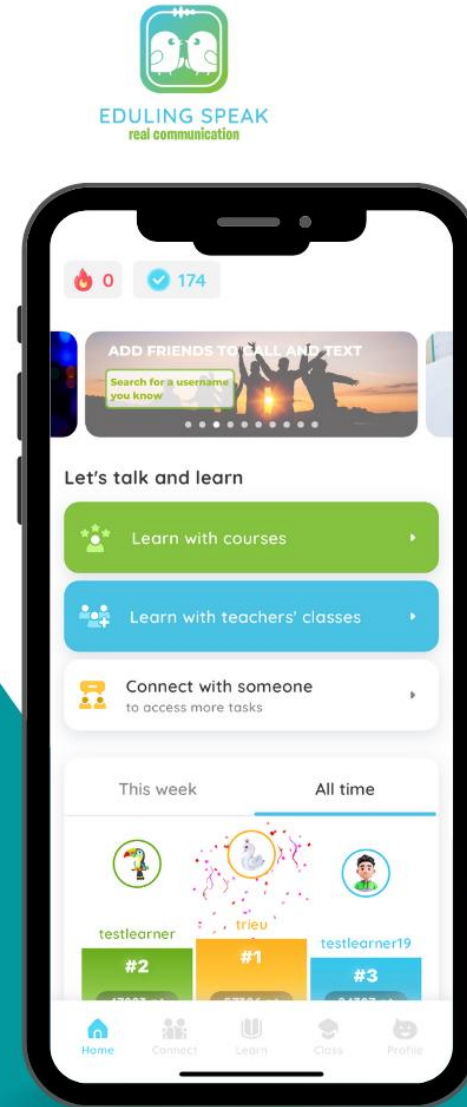


# Addressing unique needs

Eduling Speak	LingoStar.AI	Pangea Chat	ELSA	Emerging Products
Develops real communication through tasks  Promotes peer-to-peer and AI interaction	Makes conversational immersion accessible to language learners  English, Spanish, French, German	Helps learners to learn a language through multimodal and multilingual texting  Message-based AI-powered tools  49 target languages  Advanced analytics and content generation	Helps with speaking confidence  One-on-attention and feedback: grammar, vocabulary, pronunciation  AI tutor	Give learners access to content: videos, films, music  Have an AI component  Game-based learning approaches

# Eduling Speak

- Offers specialized courses in the mobile format
- 45+ courses in IELTS, TOEFL, Aptis, Pronunciation, Research Writing, U.S. Culture and Idioms, and more
- Completing solo tasks, with AI, or in pairs
- Linked to an Educator Dashboard so teachers can assign tasks, see submission, and give feedback



[eduling.org/speak](https://eduling.org/speak)

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## Welcome to the NEW Eduling Speak app

New look, easier navigation,  
more social, organization of  
tasks into courses, and more!

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App Store


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Google Play






# Examples in the Eduling Speak app


In progress Available Completed




**30 Tasks for Kids**  
Interactive tasks for kids to accompany the boo...  
Level **A1** **A2**  
22%



**IELTS Speaking Part 2: Places**  
Practice IELTS Speaking Part 2 with the focus o...  
Level **B1** **B2** **C1**  
4%




**Basic Communication Course 2**  
Learn vocabulary about everyday topics; Practi...





**Celebrating the Earth**  
Interactive tasks for kids to celebrate Earth Day ...  
Level **A1** **A2**


Home Connect Learn Class Profile


< 30 Tasks for Kids





**Children's Stories S...** 29 plays  
The Ocean Dream  
Level  25





**Picture Differences...** 13 plays  
Santas  
Level  71





**Picture Differences ...** 11 plays  
Girl on Jack o' Lantern  
Level 




**Picture Differences ...** 1 plays  
Alien on a Planet  
Level 



**Picture Differences ...** 1 plays  
The Sun in Space  
Level 



**Picture Differences ...** 2 plays  
Tools and Equipment  
Level  63

< Point: 70

View the answer key and tap on the difference to review the language

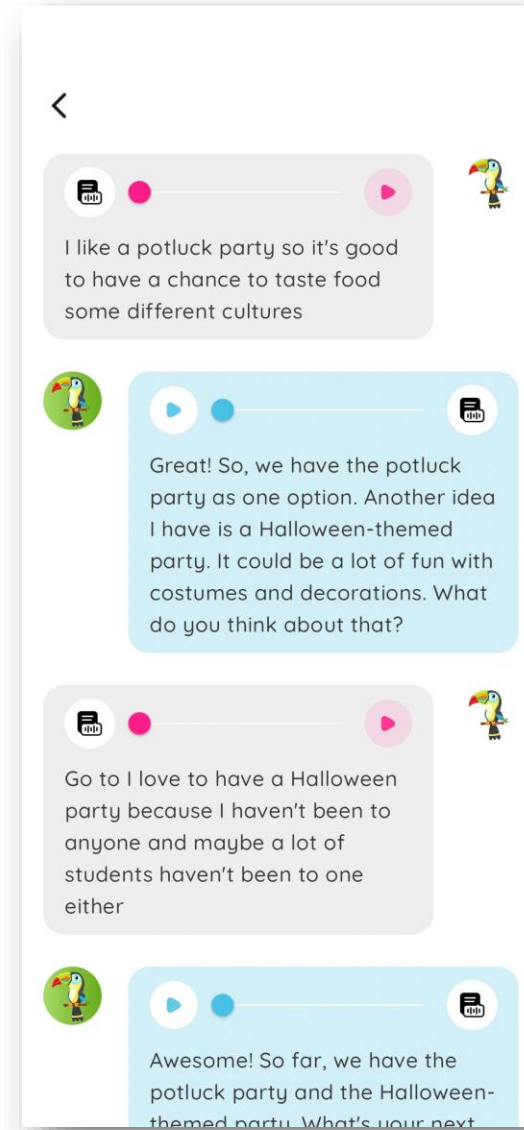
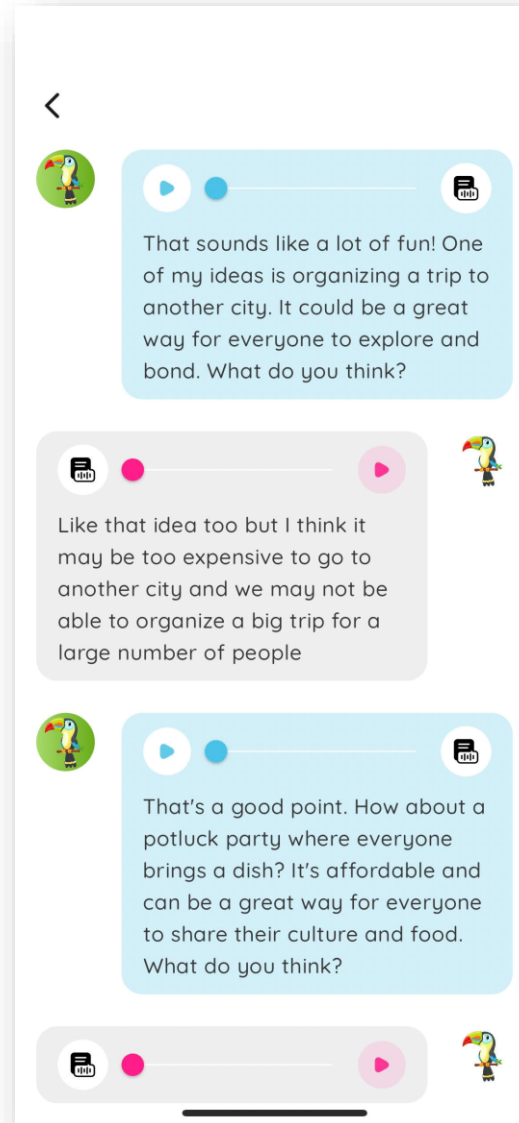
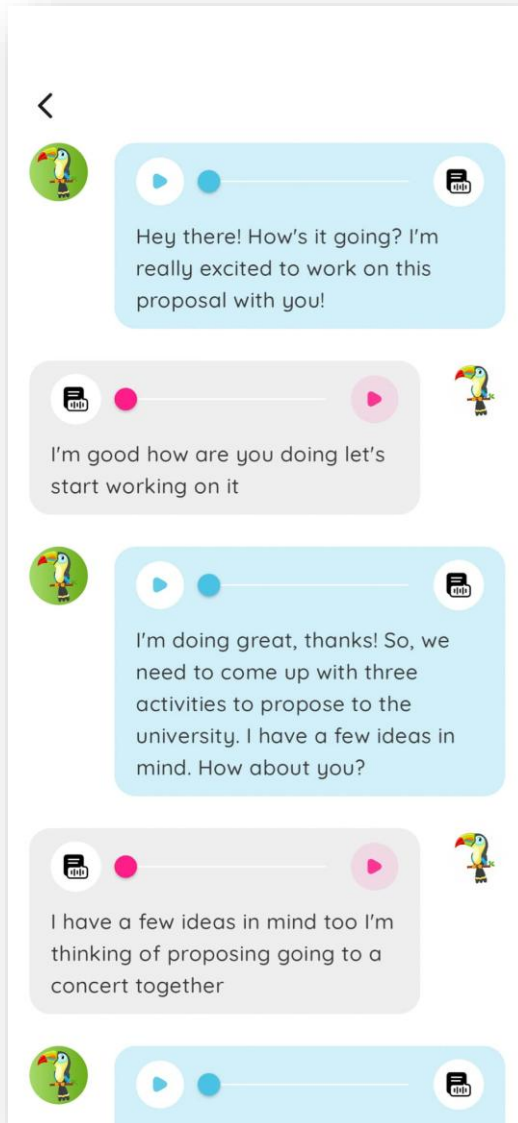


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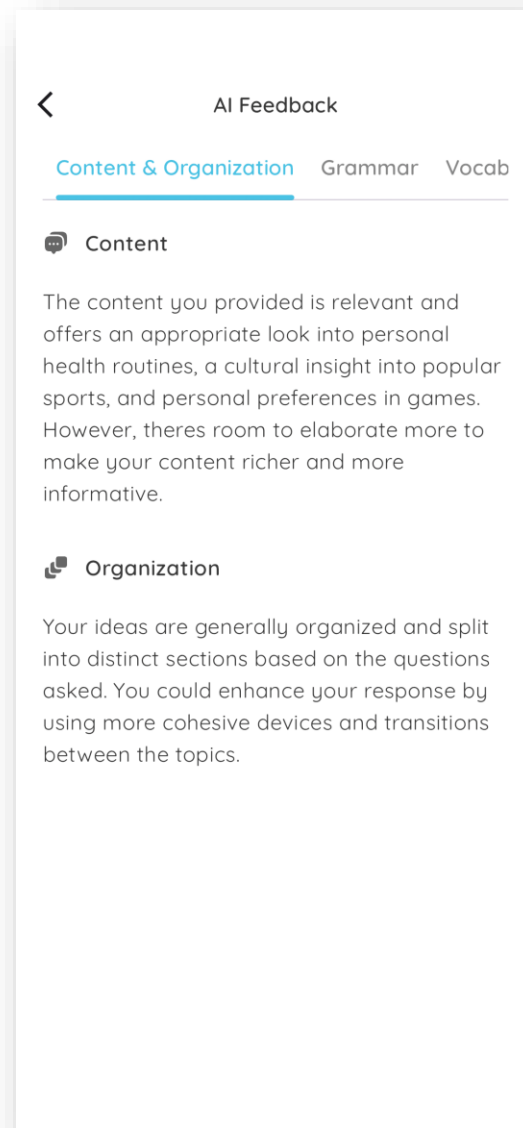
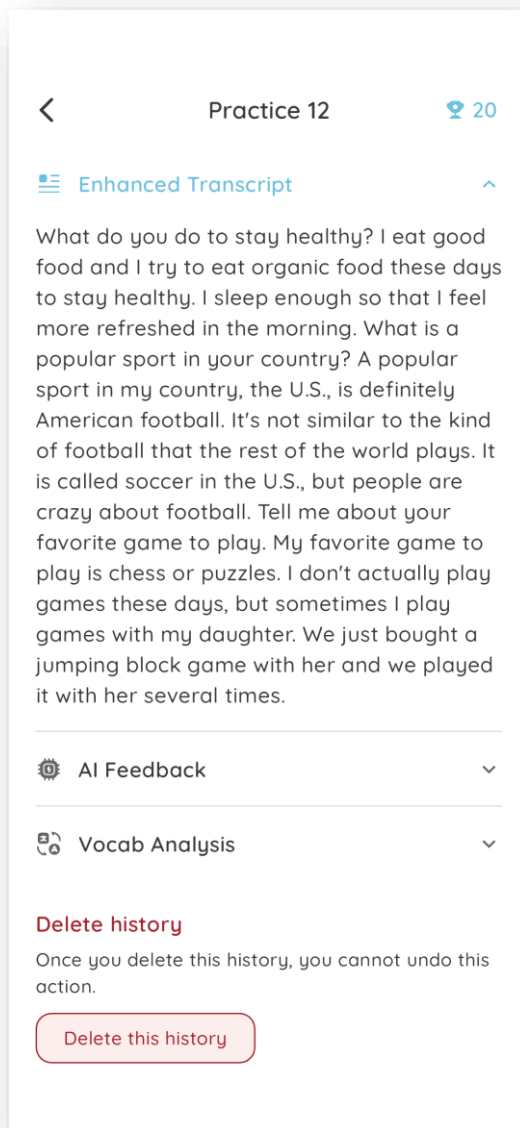
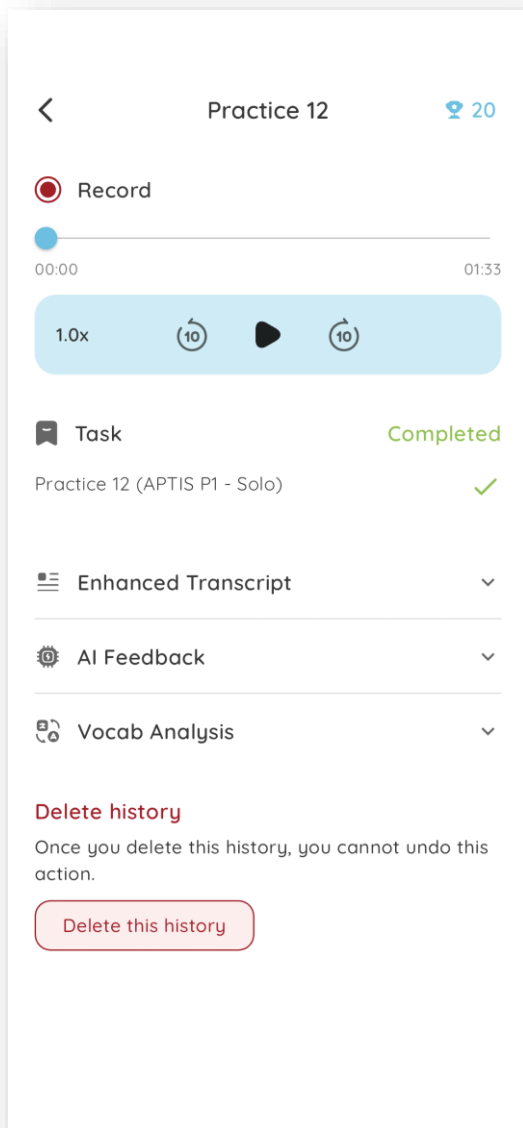
Next



# Decision making with AI



# Automated feedback on Eduling Speak



# Automated feedback on Eduling Speak

<

AI Feedback

Vocabulary

Corrections

Suggestions

✎

Corrections

I eat good food → I eat healthy food

I sleep enough so that I feel more refreshed  
→ I make sure to get enough sleep to feel refreshed

football that the rest of the world plays → football as it is known in the rest of the world

we played it with her → we have played it several times

<

AI Feedback

Corrections

Suggestions

Revised Transcript

💡

Synonyms

crazy about → enthusiastic about

healthy → nutritious

play games → engage in games

popular → widely enjoyed

🔑

Paraphrases

I try to eat organic food these days to stay healthy → Lately, I've been opting for organic food to maintain my health

My favorite game to play is chess or puzzles → I particularly enjoy playing chess and solving puzzles

people are crazy about football → people are extremely passionate about football

<

Practice 12

🏆 20


🔍

Vocab Analysis

You use these words from the Academic Word List

definitely                      similar

Here's the breakdown of your vocabulary use



81%	Common words
14%	Less common words
5%	Uncommon words

What do you do to stay healthy? I eat good food and I try to eat organic food these days to stay healthy. I sleep enough so that I feel more refreshed in the morning. What is a popular sport in your country? A popular sport in my country, the U.S., is definitely American football. It's not similar to the kind of football that the rest of the world plays. It is called soccer in the U.S. but people are

<

AI Feedback

Corrections

Suggestions

Revised Transcript




📄

Revised Transcript

What do you do to stay healthy? I eat good food, and I try to eat organic food these days to stay healthy. I sleep enough so that I feel refreshed in the morning. What is a popular sport in your country? In my country, the U.S., a popular sport is definitely American football. It's not similar to the kind of football that the rest of the world plays. It is called soccer in the U.S., but people are crazy about American football. Tell me about your favorite game to play. My favorite games to play are chess and puzzles. I don't actually play games much these days, but sometimes I play games with my daughter. We just bought a jumping block game, and we have played it with her several times.



# Eduling Educator Dashboard: Audio and transcript

▶ 0:00 / 2:00   

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## Transcript

DRAFT

I remembered a masterpiece that left a huge impression on me which I saw a couple of months ago. So the art is called the Fighting Temppore by an artist called Turner. It is an oil painting of a large old-fashioned battleship being towed back to harbor at sunset. To be honest, I can't really remember when I first saw this painting because it's one of the most famous painting in Britain so I probably saw a copy because I know the original painting is hang in the National Gallery in London. And I wished I knew more about this painting really. It was painted in the 19th century of the Laval. As far as I know, this picture shows a ship being taken on its large journey after it had been wrecked during the battle. One of the thing I impressed about this painting is the way the artist used impressions and and the art cloud from the volcanoes that spread all around the world would have made the sunset and the sky much more colorful. So, it's like seeing a period of time pass from the ancient history to these eyes of the artist.

# Teacher view: Corrections

General Comment

Content & Organization

Grammar

Vocabulary

Corrections

Suggestions

Revised Transcript

1. 19th century of the Laval -> 19th century at sea level
2. I wished I knew -> I wish I knew
3. It is an -> It depicts an
4. One of the thing I impressed about -> One thing that impresses me about
5. is hang -> is hanging
6. most famous painting -> most famous paintings
7. pass from -> transition from
8. the art cloud -> the clouds of ash
9. the art is called -> the artwork is called
10. the artist used impressions and and -> the artist's use of light and
11. these eyes -> the eyes
12. this picture shows -> the painting depicts



# Teacher view: Suggestions

General Comment

Content & Organization

Grammar

Vocabulary

Corrections

Suggestions

Revised Transcript

## ■ Synonyms

1. ancient history -> [bygone days](#)
2. art cloud -> [volcanic haze](#)
3. colorful -> [vibrant](#)
4. famous -> [celebrated](#)
5. harbor -> [port](#)
6. huge impression -> [profound effect](#)
7. masterpiece -> [work of art](#)
8. oil painting -> [oil on canvas](#)
9. old-fashioned -> [vintage](#)
10. original painting -> [authentic piece](#)
11. period of time -> [era](#)
12. towed -> [guided](#)
13. wrecked -> [damaged](#)

## ■ Paraphrases

1. I can't really remember -> [I'm unable to recall precisely](#)
2. left a huge impression on me -> [made a significant impact on me](#)
3. the way the artist used impressions and and the art cloud -> [how the artist captured the interplay of light and the volcanic ash](#)

# Teacher view: Revised transcript

## AI Feedback

[General Comment](#)[Content & Organization](#)[Grammar](#)[Vocabulary](#)[Corrections](#)[Suggestions](#)[Revised Transcript](#)

I remember a masterpiece that left a huge impression on me which I saw a couple of months ago. So the art is called the "Fighting Temeraire" by an artist known as Turner. It is an oil painting of a large old-fashioned battleship being towed back to harbor at sunset. To be honest, I can't really remember when I first saw this painting because it's one of the most famous paintings in Britain, so I probably saw a copy given that I know the original is hanging in the National Gallery in London. I wish I knew more about this painting, really. It was painted in the 19th century off the Laval. As far as I know, this picture shows a ship being taken on its last journey after it had been wrecked during battle. One of the things that impresses me about this painting is the way the artist used light, and how the ash clouds from volcanoes that spread all around the world would have made the sunset and the sky much more colorful. So, it's like seeing a period of time passing from ancient history to the eyes of the artist.



# Further teacher feedback



Eduling 23 Feb 20:19

▶ 0:00 / 0:00 ———— 🔊 ⋮



Eduling 23 Feb 20:18

In terms of pronunciation, please make sure to pronounce all of the sounds in a word.



Eduling 23 Feb 20:17

In terms of grammar, you can look at the AI feedback to see if you notice your errors.



Eduling 23 Feb 20:17

In terms of organization, it is difficult to follow your ideas at the end of the speech.



Eduling 23 Feb 20:17

Hi Phương. Thanks for submitting the speech. You did a pretty good job of describing the painting with enough details and good vocabulary. What you need to improve the most is organization, grammar, and pronunciation.



Type your comment



# How teachers have used it

- 4-week IELTS course with additional feedback
- 4-week IELTS course with additional feedback and live lessons
- TOEFL speaking practice as part of a class
- Pair work among students in class



# How teachers have used it

- Take my research writing course
- Collaborate to create courses in the app
- Take the Developing Communicative Tasks course



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- 5 modules with 18 videos
- Videos by Dr. Rod Ellis, Dr. Linh Phung, and Dr. Hoa Nguyen
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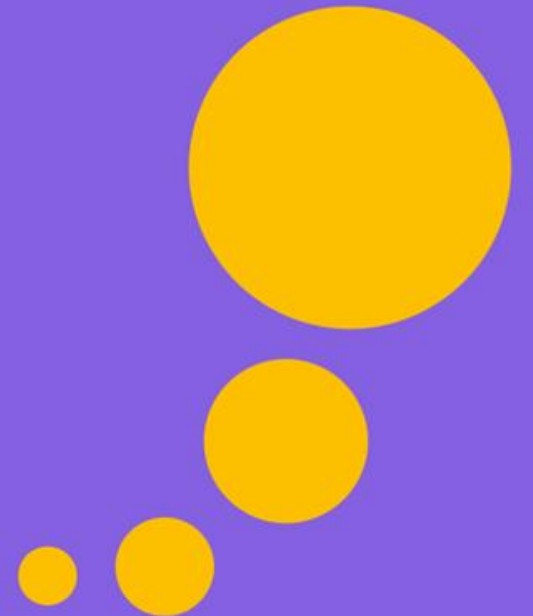
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# Pangea Chat

Learn a language

while texting your friends





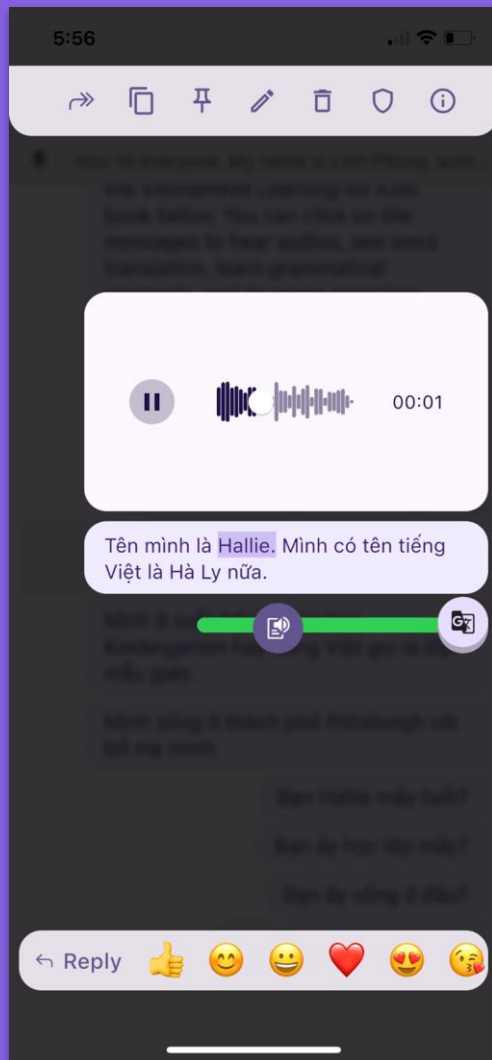


Web version: [app.pangea.chat](https://app.pangea.chat)



Let's see  
how it  
works!

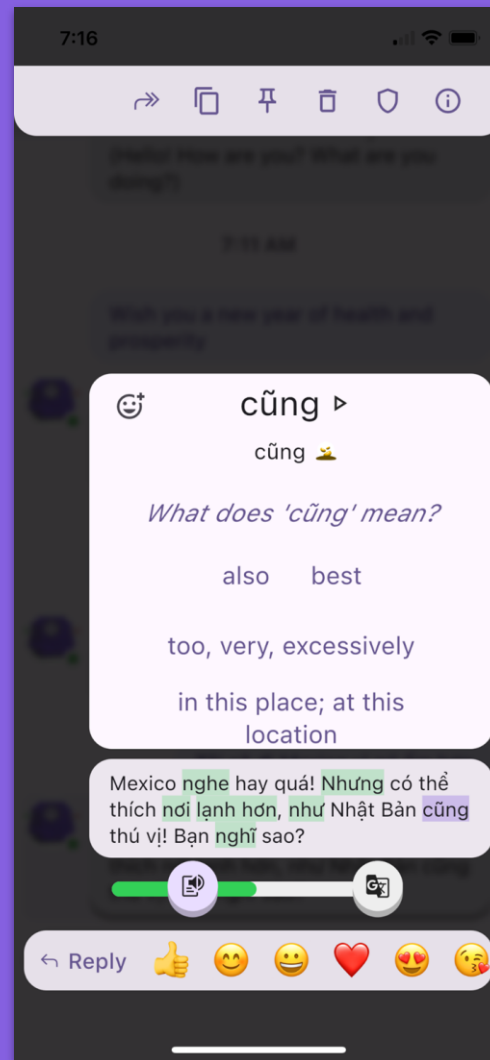
# Message-based tools



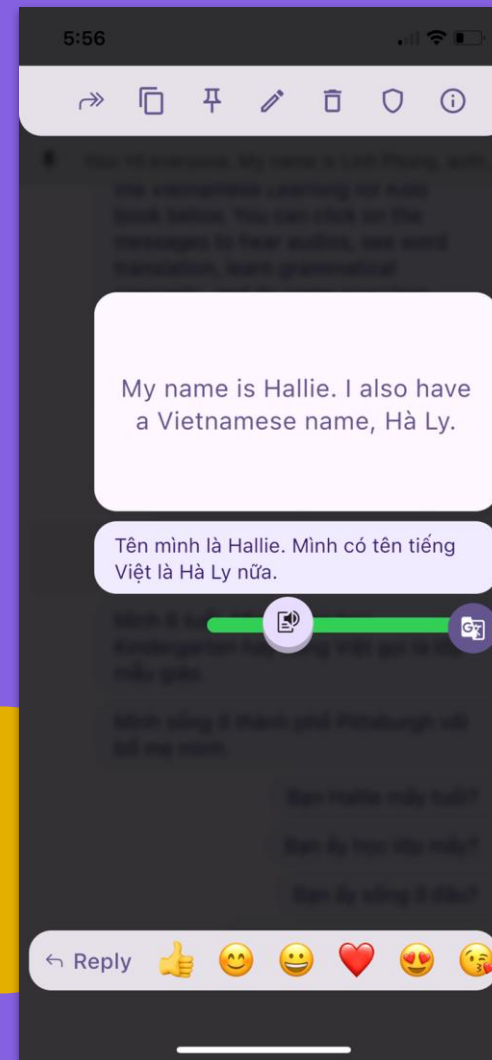
Listen to the message



Check word meaning, pronunciation, and grammar



Complete meaning activities to unlock the translation




Check the full translation


# Detailed view of your vocabulary and grammar use

7:45

× Vocabulary


 >100 XP


actividad, ayudo, año, beber, bien (noun), café, comprensible, con, de, dificultad, disfraz, disfrazar, divertido, día, el, en, español (adjective), especial, esperar, establecer él, estar (verb), experiencia, formar, genial, gustar, hablar, hacer, libre, lindo, mi, mucho (adverb), más, nuevo, oportunidad, otoño, para, plan, poner, que, sentimental, ser, sí (adverb), tanto, tener, traer, uno, y, yo, él

 >30 XP

a, ahora, alegrar, alguno (pronoun), amigo, aprender, aquí, así, ayudar, bailar bonito (distinction)


7:48

<  el >

 Determiner

**Meaning:** the

**Forms used in chats:** la, el, los, las,

 732 XP

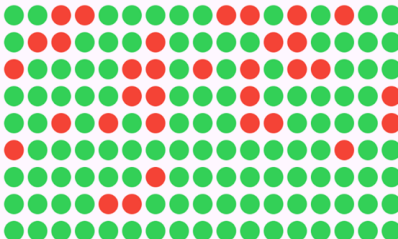
Se utilizan flores de durazno y faroles rojos para decorar **la** casa.

Lo como durante **el** Año Nuevo Lunar



Nos hablamos sobre **el** trabajo, la familia, los amigos...


Viste una iglesia, una pagoda y **las** montañas





Se tarda mucho tiempo en aprender **la** gramática de algún idioma









× Grammar




 



 **Part of Speech**


 Noun  Verb  Adjective  Pronoun



 Determiner  Adposition  Adverb


 Coordinating Conjunction  Auxiliary  Interjection





 Subordinating Conjunction  Particle  Proper Noun

 Number  Affix

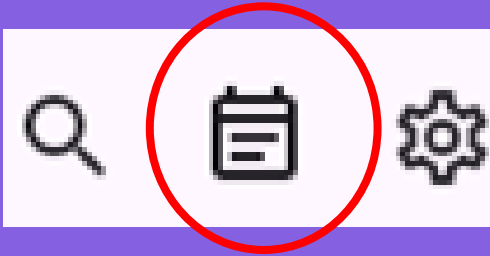
 **Adverb Type**

 Time  Adverbial

 **Aspect**

 Perfect  Imp  Progressive  Habitual

# Use the Activity Planner to generate group activities



Click the Activity Planner icon in the top right corner of a chat.

**Activity Planner**

Choose a topic, mode, learning objective and generate an activity for the chat!

Topic: Animales

Learning Objective: Contar una Historia

Mode: Narración

Media learners should share: Image

CEFR Level: Beginner (A1)

Language of activity instructions: English

Target language: Spanish

Number of learners: 4

Generate Activities

Specify variables/information

**La Aventura Animal**

You will work together to create a simple story about animals going on an adventure. Use short sentences to describe the animals and compare and contrast their actions.

Choose one animal each (e.g., a tiger, a rabbit, a turtle). Set the scene: Decide where the animals are (e.g., in a jungle, on a farm, in the sea). Take turns adding to the story: Learner 1: Start the story by introducing your animal. Learner 2: Add another animal and what it does. Learner 3: Describe what happens next. Use comparisons and contrasts as the story continues: Talk about what the animals do and how they are different. End the story together by solving a problem or completing the journey.

selva granja mar tigre

conejo tortuga comparar

contraste diferente resolver

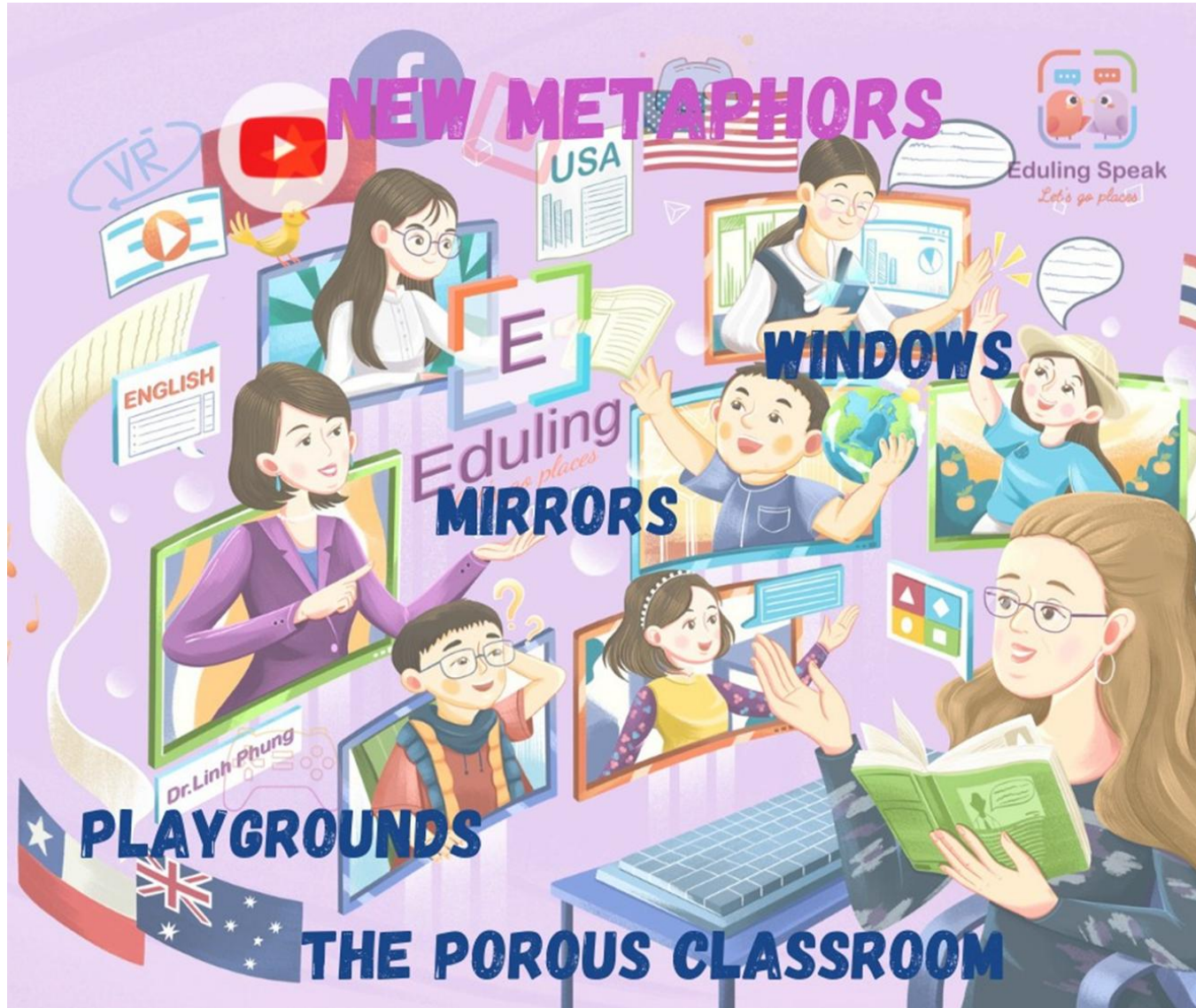
viaje

Launch Activity

Edit and launch



# Conclusions



- Mobile learning is effective because of its convenience and regular practice
- It's suitable for a blended model of learning:
  - Learners use mobile devices in the classroom
  - Learners practice with their devices before or after class
  - Learners choose to learn on their own
- Teachers can incorporate mobile learning to facilitate language development.

# A course in the Eduling Speak app



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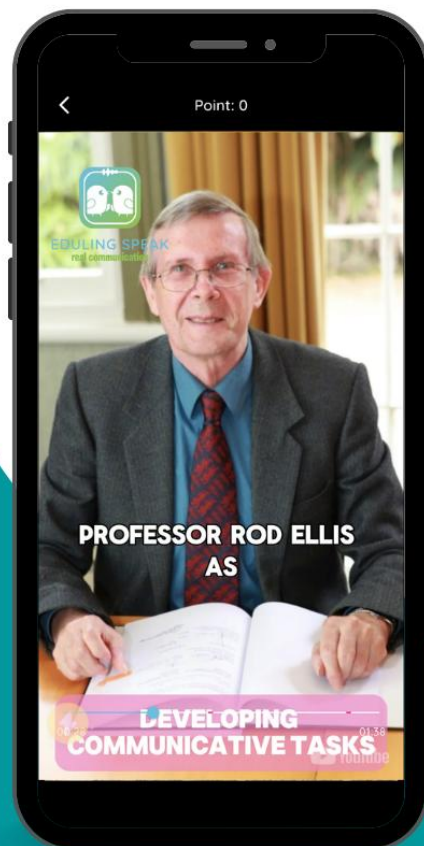
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