Cool English Platform Applies AI Technology to Create Diverse English Learning Resources

(Image/Original Text: Chen Han-Chang, Division of Junior High and Elementary Education)

To promote digital English learning, the K-12 Education Administration of the Ministry of Education and the Department of English at National Taiwan Normal University worked together to create the Cool English website (https://www.coolenglish.edu.tw/), which applies AI technology to develop English speaking, listening, and writing learning resources to improve students' learning motivation and effectiveness. As of October 2023, the number of registered users reached 1.66 million, and the number of users in 2023 reached 2.7 million.

In terms of English-speaking, the K-12 Education Administration stated that CoolE Bot utilizes the language model of Open AI with speech recognition and synthesis technology to guide users through different contexts during English conversations, and the Speech Recognition Assisted Teaching System offers evaluation and suggestions based on users' speaking performance. For English listening, the Text-to-Speech synthesis tool converts text into speech and provides different choices of accents, voices, and speeds of speech. For English writing, the TOEIC

Writing Evaluation Tool and AI Writing Detector provide content evaluation and overall suggestions to help users refine their word choices, sentence patterns, and structures of their essays.

For example, Kaohsiung Municipal Shanlin Junior High School teacher Chung Fang-Ling uses AI tools on the Cool English Platform to improve her students' English expression. During teaching, she utilizes the Text to Speech tool to convert text into speech, allowing students to listen to the audio and practice reading out loud with it to improve their skills in reading English aloud. During students' group presentations, they also use the AI Writing Detector to check the accuracy of their reports and practice intonation and pronunciation with the Text-to-Speech synthesis tool to improve their speaking fluency in English.

Hsinchu Shin Shing Elementary School teacher Chan Mei-Chen is dedicated to creating an interactive English classroom, incorporating AI speaking tools on the Cool English platform to increase students' interest in learning and using English. She also adopts the Speech Recognition Assisted Teaching System to help students practice English, which provides real-time feedback on English pronunciation, accuracy, fluency, and completeness. In addition, she utilizes the CoolE Bot together with her contextual dialogue learning sheets to encourage students to talk in English with the robot, creating an immersive English learning environment and enhancing students' confidence and performance.

According to the K-12 Education Administration, the Cool English platform combines AI technology to create diverse English learning resources and cultivate students' self-learning ability through digital learning platforms, making English learning more cheerful and exciting.