

CHAPTER V

CLOSSURE

This chapter presents the conclusions and suggestions based on the findings and discussion of the study. The conclusions summarize the main findings in relation to the two research questions concerning the effects of integrating QR Codes into English learning books on students classroom interaction and the teaching strategies designed by teachers to integrate QR Codes into English language learning within the Independent Curriculum. Meanwhile , the suggestions are addressed to English teachers, schools, and future researchers to support the effective implementation of QR Code-based learning and to provide recommendations for further research in this field.

A. Conclusion

This study aimed to investigate the integration of QR Codes into English learning books in the Independent Curriculum and its effects on students' classroom interaction, as well as to identify the teaching strategies designed by teachers to integrate QR Codes into English language learning. Using an explanatory sequential mixed-methods design, the study combined quantitative data obtained from questionnaires completed by 62 students with qualitative data collected through interviews with an English teacher. Based on the findings and discussion, several conclusions can be drawn.

First, the integration of QR Codes into English learning books has a positive effect on students' classroom interaction. The questionnaire results showed that most students had positive perceptions of QR Code

implementation in all five measured aspects, namely learning interest, student engagement, ease of use, time efficiency, and flexibility in accessing information. Students reported that QR Codes made English learning more interesting and enjoyable, increased their motivation to learn, encouraged active participation in classroom discussions, facilitated collaboration with classmates, simplified access to learning materials, saved learning time, and promoted independent learning. Furthermore, students perceived that the use of QR Codes contributed to improving their English language skills, particularly listening, reading, and speaking. These findings indicate that integrating QR Codes into English learning books supports the implementation of student-centered learning promoted by the Independent Curriculum.

Second, the interview findings revealed that the successful implementation of QR Codes depends greatly on teachers' instructional strategies. The teacher integrated QR Codes through collaborative learning, problem-based learning activities, flexible and engaging classroom activities, continuous reflection and feedback, and independent professional development. Rather than functioning merely as digital tools, QR Codes became meaningful learning media because they were integrated into learning activities that encouraged discussion, collaboration, inquiry, critical thinking, and independent learning. Although several challenges were identified, including limited internet connectivity, school regulations regarding smartphone use, and the absence of formal training, the teacher successfully

adapted instructional strategies to classroom conditions through continuous reflection and self-directed learning.

Finally, the integration of quantitative and qualitative findings demonstrates that the effectiveness of QR Codes in English language learning is influenced by the combination of appropriate technology and effective pedagogical strategies. The questionnaire findings showed that students responded positively to QR Code integration, while the interview findings explained how these positive outcomes were achieved through carefully designed teaching strategies. Therefore, the two research questions have been answered comprehensively. The study concludes that QR Code integration is an effective approach to supporting English language learning in the Independent Curriculum because it promotes active participation, collaboration, learner autonomy, and meaningful interaction between teachers, students, and digital learning resources.

B. Suggestion

Based on the findings and conclusions of this study, several suggestions are proposed for teachers, schools, and future researchers.

1. For English Teachers

English teachers are encouraged to integrate QR Codes into English learning activities because they can increase students motivation, engagement, collaboration, and independent learning. However, teachers should not focus solely on the technology itself. Instead, QR Codes should be combined with appropriate teaching strategies, such as collaborative learning, problem-based learning, classroom discussions, and interactive activities, to maximize students participation and learning outcomes. Teachers are also encouraged to continuously improve their digital competencies by participating in professional development programs, webinars, and teacher learning communities.

2. For Students

Students are encouraged to make the best use of QR Codes provided in English learning books by accessing the digital resources independently, both inside and outside the classroom. They should actively participate in classroom discussions, collaborative activities, and problem-solving tasks to maximize the benefits of QR Code-based learning.

3. For Schools

Schools are expected to provide greater support for the integration of digital technology into classroom learning. This support may include improving internet connectivity, providing adequate technological facilities, and developing clear policies regarding the educational use of smartphones during learning activities. In addition, schools should organize workshops or training programs that help teachers effectively integrate QR Codes and other digital learning media into classroom instruction in accordance with the principles of the Independent Curriculum.

4. For Future Researchers

Future researchers are recommended to conduct similar studies involving larger samples, different educational levels, or different subject areas to obtain broader findings regarding the effectiveness of QR Code integration. Further studies may also investigate the long-term impact of QR Codes on students' English language achievement, digital literacy, or higher-order thinking skills. In addition, future researchers may employ experimental or longitudinal research designs to compare learning outcomes between QR Code-based instruction and conventional teaching methods, thereby providing more comprehensive evidence regarding the effectiveness of QR Code integration in education.