

Development of Android-Based E-Modules Using Sigil Software in Fiqh Learning of the Book of Fathul Qorib in Islamic Boarding Schools

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Abstract

Fiqh learning in Islamic boarding schools is generally still dominated by lecture methods and the use of yellow books without harakat, especially on the material of buying and selling, usury, and khiyar in the Book of Fathul Qorib. This condition causes students to experience difficulties in understanding the material independently and has an impact on low independence and learning comprehension. Therefore, this study aims to develop an Android-based Fiqh learning e-module using Sigil Software and test its level of validity, practicality, and effectiveness. This research is a development research (Research and Development) using the ADDIE model which includes the stages of analysis, design, development, implementation, and evaluation. The research subjects consisted of eighth grade students of Miftahul Istiqomah Islamic Boarding School. Data collection techniques used expert validation questionnaires, practicality questionnaires, and pretest and posttest tests. Data were analyzed descriptively quantitatively. The results of the study showed that the developed e-module had a very valid level of validity based on the assessment of material experts (92.5%), media experts (86.54%), and language experts (92.5%). The practicality of the e-module is categorized as very practical based on practitioner assessments (95%) and student responses in small group trials (96.67%). The effectiveness of the e-module shows an increase in student learning outcomes with an N-Gain value of 0.808, which is in the high category. Thus, the developed Android-based Fiqh learning e-module is declared valid, practical, and effective as a supporting teaching material for Fiqh learning in Islamic boarding schools.

Keywords

E-Module, Fiqh, Fathul Qorib Book, Android, Islamic Boarding School



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1. INTRODUCTION

Islamic boarding schools (pesantren) are the oldest Islamic educational institutions in Indonesia, playing a strategic role in the development of Islamic knowledge (tafaqquh fi al-dīn) and the formation of the noble character of their students. Pesantren serve not only as centers for the transmission of religious knowledge but also as institutions that instill moral, spiritual, and social values as the foundation of Muslim life (Nasution, 2020). The urgency of deepening religious

knowledge aligns with Islamic teachings, which place the pursuit of knowledge as an obligation worthy of worship. In Surah At-Taubah, verse 122 of the Qur'an, the importance of Muslims deepening their religious knowledge is emphasized in order to provide guidance and admonition to the community. Ibn Kathir's interpretation explains that this verse encourages Muslims to focus on deepening their religious knowledge as an effort to maintain the continuity of understanding and practice of Islamic law in social life (Ibn Kathir, 2023).

Fiqh (Islamic jurisprudence) is one of the main disciplines in Islamic boarding schools, playing a crucial role in guiding students in understanding Islamic laws related to worship and social interactions. Understanding Fiqh is not merely theoretical but also serves as a practical guideline in daily life (Zuhaili, 2011). Therefore, learning Fiqh requires a systematic and in-depth process so that students are able to accurately understand the legal content and implement it effectively (Anwar, 2018). However, in practice, learning yellow books, particularly the Fathul Qorib book, still faces various obstacles. The main difficulty for students lies in their ability to read and understand Arabic texts without vowels due to limited mastery of the rules of grammar and grammar. This condition causes students to tend to be passive and highly dependent on the explanations of the teacher, so that independent learning and the effectiveness of Fiqh learning are not optimal.

The limited availability of systematic supporting teaching materials, such as books with harakat and word-by-word translations, further exacerbates this problem. The diverse educational backgrounds and Arabic language skills of Islamic boarding school students demand teaching materials that can help them learn independently without eliminating the characteristics of classical Islamic boarding school learning. Several studies have shown that Android-based digital teaching materials can improve students' understanding and learning independence, but studies specifically integrating yellow Islamic books in e-module format are still limited. Based on these conditions, innovative teaching materials are needed that are relevant to the needs of Islamic boarding school students. The development of an Android-based Fiqh learning e-module that presents the text of the Fathul Qorib book with additional harakat and word-by-word translations is a potential alternative. This study aims to develop an e-module using Sigil Software as an effort to increase the effectiveness and independence of Islamic boarding school students' learning, while also providing an academic contribution to the development of classical Islamic boarding school-based Fiqh learning in Islamic boarding schools.

2. METHOD

This study employed a Research and Development (R&D) method aimed at developing and testing the feasibility of an Android-based Fiqh learning e-module for the Fathul Qorib book. The

ADDIE (Analysis, Design, Development, Implementation, and Evaluation) model was used, as it is systematic, flexible, and suitable for developing digital teaching materials.

3. FINDINGS AND DISCUSSION

The discussion in this study refers to the four problem formulations that have been stated at the beginning of the chapter, including the process of developing an Android-based Fiqh learning e-module, the level of validity of the developed e-module, the level of practicality of the e-module, and the effectiveness of the e-module in improving students' understanding of Fiqh regarding the Book of Fathul Qorib. The discussion description is presented according to each of the problem formulations.

The Process of Developing an Android-Based Fiqh Learning E-Module

This research is a research and development (R&D) that aims to produce an Android-based Fiqh learning e-module on the material of buying and selling, usury, and khiyar in the Book of Fathul Qorib and to test its validity, practicality, and effectiveness. The development model used is ADDIE, which consists of five stages, namely Analysis, Design, Development, Implementation, and Evaluation. The selection of the ADDIE model is based on the consideration that this model has systematic stages and allows for evaluation at each stage of development. This is in line with Sugiyono's opinion that states that the ADDIE model is suitable for use in developing teaching materials because it emphasizes a continuous improvement process to produce products that are suitable for use in learning.

In the analysis stage, the researcher conducted a learning needs analysis through classroom observations, interviews with the ustadz (teacher), and interviews with students in class VIII Wushta. The results of the analysis showed that Fiqh learning was still dominated by lecture methods and reading of yellow books without harakat, and was not supported by technology-based teaching materials. This condition caused students to experience difficulties in independent learning and understanding the material in depth. The next stage was the design stage, namely the design of the e-module concept which included determining the structure of the material, compiling the e-module display, and designing supporting features such as text with harakat, word-by-word translations, images, videos, and evaluation quizzes. The design of the e-module was adapted to the characteristics of the Islamic boarding school students and the needs of Fiqh learning.

In the development stage, the e-module was compiled using the Sigil Software application in EPUB format so that it could be accessed via Android devices. The developed product was then validated by material experts, media experts, and language experts to assess the e-module's feasibility before being tested on students. The implementation stage was carried out through small group trials and field trials to obtain data on the e-module's practicality and effectiveness. Furthermore, the

evaluation stage was conducted to assess the final quality of the product based on the validation results, practicality, and effectiveness of the e-module. Thus, the process of developing the Android-based Fiqh learning e-module in this study was carried out systematically in accordance with the stages of the ADDIE model.

Validity Level of Android-Based Fiqh Learning E-Module

The validity of the Android-based Fiqh learning e-module was assessed through expert validation activities, involving material experts, media experts, and language experts. Validation was carried out to assess the suitability of the material content with the Fathul Qorib Book, the feasibility of the e-module's display and technical aspects, and the appropriateness of the language used. The validation results showed that the developed e-module was categorized as valid and suitable for use with several minor improvements as suggested by the validator. The revisions included refining the material presentation, improving the display layout, and simplifying the language to make it easier for students to understand. These results are in line with Sugiyono's opinion that a development product is declared valid if it has gone through an assessment process by experts and meets the eligibility criteria for use in learning. Thus, the developed Android-based Fiqh learning e-module has met the validity criteria as a supporting teaching material for Fiqh learning in Islamic boarding schools.

Practicality Level of Android-Based Fiqh Learning E-Modules

The practicality of the e-module was reviewed through a small group trial and assessment by practitioners (ustadz). The small group trial involved six eighth-grade students who were purposively selected based on different ability levels: high, medium, and low. The purpose of this trial was to obtain an initial overview of the e-module's ease of use before it was implemented in the field trial. The results of the practicality questionnaire indicated that the e-module was categorized as very practical. Students stated that the e-module was easy to use, the material was presented clearly, the text with vowels and word-by-word translations facilitated understanding, and the e-module's appearance was attractive and not boring.

Furthermore, the results of a questionnaire completed by practitioners of Fiqh (Islamic jurisprudence) also indicated that the e-module was considered highly practical and could be used as a supporting teaching material. There were no significant obstacles in using the e-module during the learning process. This finding aligns with Nieveen's opinion that a learning tool is considered practical if users report it is easy to use and applicable to learning activities. Therefore, it can be concluded that the Android-based Fiqh learning e-module meets the criteria for practicality.

Effectiveness Level of Android-Based Fiqh Learning E-Modules

The effectiveness of the Android-based Fiqh learning e-module was measured through a field

trial involving 25 eighth-grade students. Effectiveness was measured by comparing the students' pretest and posttest results before and after using the e-module. The analysis results showed an increase in the average score of students' learning outcomes after using the e-module. The N-Gain calculation produced a value of 0.808, categorized as high, indicating that the e-module provided a significant increase in understanding of the material on buying and selling, usury, and khiyar in the Book of Fathul Qorib.

These results align with Mubarak's opinion that teaching materials are effective if they improve student learning outcomes and achieve established learning objectives. Therefore, the Android-based Fiqh learning e-module developed has proven effective for use in Fiqh instruction in Islamic boarding schools.

4. CONCLUSION

The development process of the Android-based Fiqh learning e-module has been carried out systematically using the ADDIE development model, which includes the stages of analysis, design, development, implementation, and evaluation. Each stage is carried out sequentially and interrelated, starting from the analysis of learning needs to the evaluation of the final quality of the product based on the results of the validity, practicality, and effectiveness of the e-module. The level of validity of the Android-based Fiqh learning e-module based on the results of expert validation shows that the e-module is in the category of very valid and suitable for use. The validation of material experts obtained a percentage of 92.5%, validation of media experts was 86.54%, and validation of language experts was 92.5%. Revisions made based on the suggestions of the validators were minor and did not change the substance of the material, so that the e-module meets the eligibility criteria as a supporting teaching material for Fiqh learning in Islamic boarding schools. The level of practicality of the Android-based Fiqh learning e-module shows very practical results. Practicality based on the assessment of practitioners (teaching ustadz) obtained a percentage of 96%, while practicality based on small group trials with students obtained a percentage of 96.67%. The results indicate that the e-module is easy to use, clear in presenting the material, and in accordance with the characteristics of Islamic boarding school students. The level of effectiveness of the Android-based Fiqh learning e-module based on the results of the field trial shows a significant increase in students' understanding. The N-Gain calculation result of 0.808 is in the high category, which indicates that the use of the e-module is effective in improving students' understanding of the material on buying and selling, usury, and khiyar in the Book of Fathul Qorib. Based on the overall results, it can be concluded that the Android-based Fiqh learning e-module using Sigil Software that was developed has met the criteria of being valid, practical, and effective, so it is suitable for use as a supporting teaching material for Fiqh

learning at the Miftahul Istiqomah Islamic Boarding School.

REFERENCES

- Mubarok, H. (2020). Development of teaching materials using the ADDIE model. *Journal of Educational Research*, 9(1), 55–66.
- Nasution, NA (2020). The role of Islamic boarding schools in the development of Islamic education. *Journal of Islamic Studies*, 5(2), 123–134.
- Nieveen, N. (1999). Prototyping to achieve product quality. Dordrecht: Kluwer Academic Publishers.
- Prastowo, A. (2019). Development of thematic teaching materials. Jakarta: Kencana.
- Rahmawati, S. (2019). The use of Android-based e-modules in Islamic Religious Education learning. *Journal of Islamic Religious Education*, 4(2), 89–98.
- Rahma, N. (2020). E-module development with Sigil software. *Journal of Digital Learning Technology*, 3(1), 60–72.
- Rusdi, M. (2019). Research on educational design and development. Jakarta: Rajawali Pers.
- Sanjaya, W. (2013). Learning strategies and modern didactic concepts. Jakarta: Kencana.
- Sugiyono. (2015). Research and Development Methods. Bandung: Alfabeta.
- Sugiyono. (2019). Educational research methods. Bandung: Alfabeta.
- Wahbah az-Zuhaili. (1985). *Al-fiqh al-Islami wa adillatuhu*. Damascus: Dar al-Fikr.
- Yusup, U. (2018). Innovation in digitalization of learning with Android e-modules. *Journal of Islamic Educational Technology*, 2(2), 75–88.