ABSTRACT

The zakat and inheritance calculator application based on expert systems has become an essential need to facilitate Muslims in calculating zakat obligations and inheritance distribution according to Sharia. Despite technological advancements, many people still struggle with the complex calculations of zakat and inheritance. The main problem is the difficulty in determining the correct amount of zakat to be paid and the appropriate distribution of inheritance in accordance with Islamic law.

To solve this issue, the proposed solution is the development of a mobile application based on a rule-based expert system. This application is designed to provide accurate and practical guidance in calculating zakat and inheritance based on user input data. The system uses rules validated by zakat and inheritance experts, ensuring compliance with Sharia law.

This research shows that the application has a 100% accuracy rate in calculating zakat and inheritance distribution according to Islamic rules. Additionally, quantitative data shows that 85% of users reported an increased understanding of zakat and inheritance calculations after using this application, while 90% of users expressed high satisfaction with the accuracy and ease of use of the application. In conclusion, this zakat and inheritance calculator application is very effective, with 100% accuracy and a 90% user satisfaction rate, in helping users fulfill their religious obligations more easily and correctly.

Keywords: Mobile Application, Zakat Calculator, Inheritance, Expert System, Rule-Based.

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