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Decision tree method applied in *Zakat* board for *Zakat* distribution

Widya H

Department of Electrical Engineering, Institut Teknologi Medan (ITM), Medan, Indonesia

Abstract
Nowadays, it is very important to obtain the information data fast and it is needed a technology to achieve it. It is applied in all area, such as in education, healthy and also management area. For solving the data to be valid, one of way is computer system that can be applied in the *zakat* board to distribute the *zakat*. In the national level, the *zakat* board has a lot of *zakat* data that should be distributed in the national area. The system use manual distribution and it does not use computer system and it is not suitable to be applied the modern time. The *zakat* data that should be solve are starting the number calculation, transaction data, distribution data and report. The *zakat* board is always difficult to manage the data, it is due to the method used is still classic and manual. There are mistakes in calculation and writing, it takes a lot of papers to write the report and also the works are still slow. This paper present decision tree method applied in *zakat* board to distribute the *zakat*. The *zakat* data is collected based on the observation, interview. By using the method, the *zakat* report to be easy, transaction process is fast and easy.

Keywords: Data management, *zakat* board, *zakat* distribution

1. Introduction
Zakat in Arabic language is زكاة; translation is *Zakah*. It is number of perporty that should be given to the required people following Islamic law. *Zakat* is the third islamic pilar. In the practical, *zakat* is devision activity that it compulsary in Islamic law. It is different to bonus. Bonus is devision activity that it is not allowed by goverment or goverment requirement. Zakat is one part of Islamic pilar and it becomes one component to build Islamic *syariah*. For this reason, *zakat* is compulsary for every Muslim who has fulfil the special requirement. *Zakat* is categorized in *ibadah*, like ritual player, fasting and hajj that have been arranged in Koran and *sunnah*. *Zakat* is also social activity that can be raised in anywhere. The *zakat* board hopes that the activity can help and the result can be distributed to all required people.
This paper presents an algorithm method of decision tree. This method can help the *zakat* board to *zakat* distribution without data collection. This method cal also understand who can obtain the *zakat* distribution. It uses program language of Pre Hypertext Protocol (PHP).

2. Methodology
This research is done to look for the information about design process and *zakat* distribution using Pre Hypertext Protocol (PHP) in the *zakat* board. The method used is decision tree. It is one of popular method because it is easy to be interpreted by human. The decision tree is prediction method using tree structure. The concept is to change the data to be decision tree and decision laws. The advantage of this method is that it is be able to break down in the decision and it can interpret the data to be a solution. The decision tree method used in the research is shown in Fig. 1.

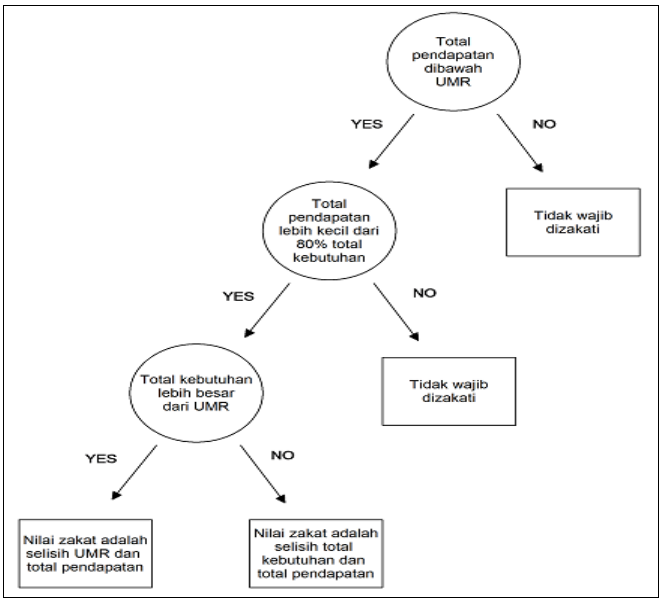

Fig 1: Decision tree in *zakat* process

3. Result and Discussion
3.1 Main Menu Form
Before entering the log in window, the system will appear a definition window of *zakat*, *zakat* law and type of *zakat* as shown in Fig. 2.

Fig 2: The firs window of *zakat* system

3.2 Automatic Calculation Form

Fig. 3 shows a form of automatic calculation. It shows the *zakat* calculation that will be distributed. They consist of professional *zakat*, agricultural *zakat*, animal husbandry *zakat* and *fitrah zakat*.

Fig 3: Calculation form

3.3 Log in Form

The log in form is shown in Fig. 4. The user should enter the username and password correctly to be able to excess the system. If the log in is successful, the window will show the form of client, transaction and report.

Fig 4: Log in form

3.4 In Put Data Form

In this form as shown in Fig. 5, the user should enter the *muzakki* data who registered as *zakat* distributor.

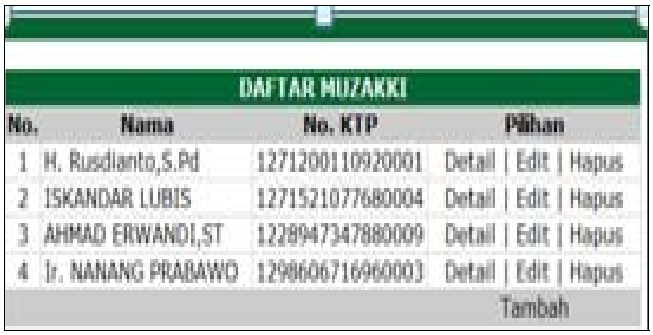

Fig 5: *Muzakki* data

3.5 Distribution Form

This form explains the distribution data to *mustahik* as shown in Fig. 6. The last form is report of distribution as shown in Fig. 7.

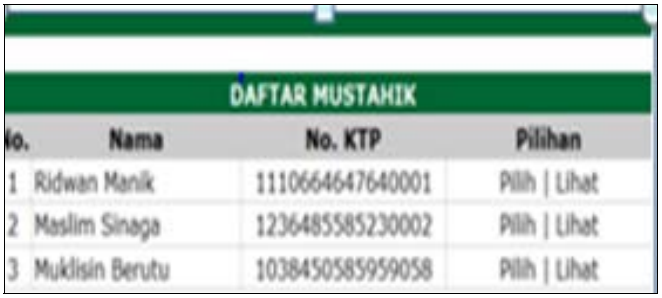

Fig 6: Mustahik data

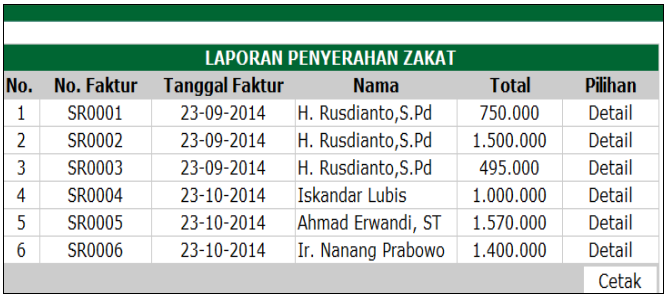

Fig 7: Report of distribution

4. Conclusion

Based on the method and result that have been explained, thus it can be concluded that the application of decision tree based on the Pre Hypertext Protocol (PHP) can be applied in the *zakat* board to distribute the *zakat* for the required people. The application program is implemented based on the language of Pre Hypertext Protocol (PHP) and also based on the web in a computer system.

5. References

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