Design of Information System Vehicle Rental Based Web

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Abstract. The purpose of this study is to facilitate vehicle rental transactions between vehicle owners and tenants to make it easier for tenants to choose a vehicle that matches their needs such as engine capacity, number of seats, and so on. That way the tenant does not need to be bothered to come to the rental vehicle to minimize time. The method of this study used descriptive method where the writer conducts interviews directly with the owner who also rents the vehicle at SINAR XBZ to be used in case studies in this research. The results of this study are expected to create a vehicle rental website that can increase the attractiveness of consumers to rent vehicles quickly and reliably. Besides, it is expected that this website can make it easier for both vehicle rental owners and tenants so that the income from the vehicle rental can increase.

1. Introduction

The growth of technology resulting a tight comepetition among companies to attract more customers [1]. In making a decision, technology helps the owner of the vehicle rent to focus on the use of IT in order to have a competitive advantage. [2]. A problem often faced by vehicle rental companies is the inefficiency when doing a transaction. To find out the availability of the car, the tenant must call the rental company one by one [3]. Limitations of communication and information tools is the distance, however with a website, we can find a variety of information in various parts of the world [4]. Transaction is conducted by the seller and buyer online through the Internet is called online transactions [5].

The rapid change of information technology led to the development of Web-based Information Systems. There have been several studies on general models for the analysis and design of web-based information systems [6]. The development of Information Technology is very rapid at this time, it requires speed and accuracy in obtaining information and making it easier to make decisions [7]. Transportation makes it easier for people to pick up the passenger to save their time [8]. Companies must have a strategy to compete in the market. Then, we also need an information system that applies customer relationship management methods [9]. As people cannot live without the internet, people can easily find various kinds of information they want. [10].

The purpose of this study is to facilitate vehicle rental transactions between vehicle owners and tenants and make it easier for tenants to choose a vehicle that matches their needs such as engine capacity, number of seats, and so on. That way the tenant does not need to be bothered to come to the rental vehicle to minimize their time. This study used descriptive as a method by interviewing with the owner at SINAR XBZ as a case study in this research.
2. Method
This study used a descriptive analysis as a method by interviewing SINAR XBZ for the case study. After finding the next problem, gather material in system design. System design is very important and useful for development because it can determine the final results of the system being built.

3. Results and Discussion
SINAR XBZ is one of the famous vehicle rental as a place that provides the types of cars or motorcycles with a good quality. Therefore, the tenants will be comfortable when driving and get a reasonable price for it. One of the problems that occur in SINAR XBZ is the process of renting the vehicle to the tenants, especially when choosing the vehicle. However, because we want to attract more customers, doing a transaction using the internet is one of the ways to attract more customers. Therefore, to take the advantage of this technology, SINAR XBZ intends to build a web-based vehicle rental to make customers doing transactions through the website, as well as attracting more consumers while promoting SINAR XBZ more broadly. The website design can be seen at (Figure 1).

Figure 1. Home

On the first page (home) displays the choice of cars in SINAR XBZ. There is a lot of information about car categories to rent, information about car rentals, and social media links. The next page contains the contents menu of the car you want to rent (Figure 2).
On this page, the tenant can find out what cars they choose and pay the price that has been estimated by the website (see Figure 3).

On this page, tenants can find out the services provided by SINAR XBZ such as providing cars with services and business partners. The next page is the testimonial menu (Figure 4).
This page displays a video of testimonies delivered by consumers. It talks about the satisfaction from the services provided by SINAR XBZ. The next page contains a menu about us (Figure 5).

On this page, tenants can find out the history of SINAR XBZ and find the location of the car rental. The next page is the contact me menu (Figure 6).
On this page, tenants can find out the contact so they can contact SINAR XBZ to rent the vehicle.

4. Conclusion
Using web design as a tool to promote the vehicle rental, very helpful to attract more customers and make the transactions to be easier, due to the availability of accessible information and the processing of order data that is effective and efficient.

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References
[1] Adiyanto, N. 2019. Customer Relationship Management (CRM) Based on Web to Improve the Performance of The Company. ITSDI Journal Edition, 1(1), pp.32.
[2] Soegoto, E. S. 2018. Information Technology Based Entrepreneurship Education in University. In International Conference on Business, Economic, Social Science and Humanities (ICOBEST 2018).
[3] Rozi, N. F., Ruswiansari, M., Rachman, A., Wardhana, S. R., & Istiyanto, L. 2019. The Development of LIDF: A Web-Based Car Rent Marketplace Application in Sidoarjo, Indonesia. In IOP Conference Series: Materials Science and Engineering, 462(1), p. 012052.
[4] Mulyati, M., Supriadi, A., & Imaduddin, A. 2019. Rental Building and Event Equipment Application at the Arcadia Function Hall Web-Based. Aptisi Transactions on Management (ATM), 3(2), pp.91-98.
[5] Abadi, S., Huda, M., Hehsan, A., Mohamad, A. M., Basiron, B., Ihwani, S. S., ... & Noor, S. S. M. 2018. Design of online transaction model on traditional industry in order to increase turnover and benefits. International Journal of Engineering and Technology (UAE), 7(2.27), pp.231-237.
[6] Welzer, T., Eder, J., Podgorelec, V., Wrembel, R., Ivanović, M., Gamper, J., … & Latifić, A. K. (Eds.). 2019. New Trends in Databases and Information Systems: ADBIS 2019 Short Papers, Workshops BBIGAP, QAUC, SemBDM, SIMPDA, M2P, MADEISD, and Doctoral Consortium, Bled, Slovenia, September 8-11, 2019, Proceedings, 1064, pp.23-34. Springer Nature.

[7] Moore, R. D., & Francis, M. A. 2011. U.S. Patent Application No. 12/802,942.

[8] Kratov, S. 2019. On improving the indexing of information systems based on web technologies. In Journal of Physics: Conference Series, 1210(1), p. 012072.

[9] Manurung, P., & Sembiring, S. 2019. E-crm Information System for Tapis Lampung SMEs. In Journal of Physics: Conference Series, 1210(1), p. 012051.

[10] Fitriana, R., Kurniawan, W., Barlianto, A., & Putra, R. A. 2016. Marketing information system online design for craftsmen small medium enterprises (case study: craftsmen ac). In IOP Conference Series: Materials Science and Engineering, 114(1), p. 012084.