An Analysis of Customer Satisfaction and Its Effect on Customer Relationship Management

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Abstract—The purpose of this study is to determine and analyze: Customer Relationship Management (CRM) influence of customer satisfaction toward PT Tiki Jalur Nugraha Ekakurir (JNE) Banjar City Branch Office. The study was conducted with the quantitative approach under the frame of explanatory design. 100 customers were selected as the participants who were previously chosen by using Simple Random Sampling. The data were analyzed by using the statistical methods, namely Pearson Product Moment correlation. The results showed that the influence of Customer Relationship Management (CRM) on customer satisfaction by 50.08%. The hypothesis testing indicated that there is a significant influence of Customer Relationship Management (CRM) on customer satisfaction toward PT Tiki Jalur Nugraha Ekakurir (JNE) Banjar City Branch Office. This indicates that, Customer Relationship Management (CRM) is very important to increase customer satisfaction.

Keywords—Customer Satisfaction, Effect, Customer Relationship Management

I. INTRODUCTION

Customers are the key for achieving company’s success. For doing so, the company has to optimize customer’s satisfaction and minimize various problems which correlate directly to customers. They, the customers will be positive convinced if their expectations from bought products or services can be met or even exceeded [1]. The current trend of dynamic progress and customer’s needs can be solved if the company has reliable and well-organized customer management systems which is well known as Customer Relationship Management (CRM) [2].

Customer Relationship Management (CRM) is such of a business and marketing strategy that integrates technology, processes and business activities for customers [3]. This whole system involves a data record process and data management from customers, vendors, suppliers, partners and other related internal processes. CRM systems can optimize relationships with existing customers, help attracting potential customers, and get previous customers to order or buy products or services [4]. In addition, CRM is also a tool for managing customer life cycles, assessing customers’ satisfaction, and increasing customers [5]. The CRM system was originally started as a database for customer contact information only, but recently it is growing into more advanced management tool that can be utilized as a tool for helping business communication improvement [6].

Supporting the previous statements on CRM, it also offers benefit for implementing CRM are: to increase customer’s satisfaction and loyalty also provide value to the company [2], [7]. In addition, CRM systems can assist employees in organizing activities, managing contacts, and managing their own documents and provide reports and information for organizations that provide opportunities and potential for organizations to achieve competitive advantage, as well as to see the potential of new products and markets [7].

Some previous researchers have conducted research on CRM. Based on the data findings, Customer Relationship Management (CRM) is seen as a factor which contribute on the influence of customer’s loyalty [8] [9] [10]. For instance, the research data from National Electric Company East Java regional, Indonesia proves that CRM and customers’ service quality have a positive and significant impact on customers’ satisfaction [11]. However, none of the research was conducted on the courier service company.

PT Tiki Jalur Nugraha Ekakurir (JNE) is one of the largest and most extensive freight forwarding service companies in Indonesia. In 1990, Soeprapto Suparno...
established it. In the beginning, a number of personnel and operating capital of this courier company was only 100 million rupiah. By that time progress, it began to develop into an international freight forwarder service provider at that time. In 1991. After the reputation of JNE was increasingly known not only abroad but also domestically, and the potential for shipping goods in the country that began to develop at that time. It has expanded its business into the small cities such as Banjar.

Furthermore, the present study’s purpose was in-depth analysis on the effect of Customer Relationship Management (CRM) toward Customers’ Satisfaction at PT Jalur Nugraha Ekakurir (JNE) Banjar city branch office.

II. LITERATURE REVIEW
A. Customer Relationship Management (CRM)
Customer Relationship Management is an approach to build and maintain long-term business with customers [12]. It is the process of managing detailed information about each customer and managing carefully the age of all customers to maximize customers’ loyalty [13]. It is then a set of strategies and processes that improve value and reciprocity for individual customers, build preferences for company and improve business results with their customers for long lasting life of company [14].

Currently, the system of CRM has already utilized technology which is better known as E-CRM. This system works on a process to maximize sales for existing customers, fostering ongoing relationships through the use of digital communication technologies such as databases, websites, customer services, email marketing and social media [15]. Cost efficiency, more flexible operational activities, and optimization of resources can be achieved by utilizing this system [16].

The purpose of applying CRM for company is to provide better service, and support the sales process to customers, and ultimately increase company profits [17].

B. Customer Satisfaction
The word “satisfaction” is defined as the level of one's feelings of happiness or disappointment that arises after comparing the perceived performance (outcome) with his/her expectations. Likewise, customers’ satisfaction is an indicator of a company's future financial success [18]. Customers’ satisfaction is a consumers’ response toward product or service which can be assumed based on customer needs, and can determine whether the buyer will be a stable customer or not [19]. In today's harsh and massive business world, worth service in developing good relationships with customers is increasing a high level of customers’ satisfaction [20].

Customers’ satisfaction and orientation are both urgent competitive benefits in all production areas [18]. The demand of companies must meet the needs and customers’ requirements for achieving customers’ satisfaction [21] [18]. Commonly, a company do survey on customers’ satisfaction once a year using the satisfaction index provided by outside consultants to measure companies’ service. [21]

III. METHODS
A. Research Design
The present research employed a quantitative design with focusing on Explanatory Research method. Based on the its type, associative research was conducted under research participants. Associative research is research that aims to determine the relationship between two or more variables.

B. Research Paradigm
The research paradigm can be clearly drawn as follows:

![Fig. 1. Research Paradigm](image)

C. Sampling Technique
The total population of present study is all customers from PT Tiki Jalur Nugraha Ekakurir (JNE) Banjar city branch office in the year of 2017 with the total number 95,921 participants.

The study employed probability sampling especially simple random sampling technique. Based on Slovin’s formula of sampling calculation, the error tolerance is 10% from population which means the total of sample of research is 100 participants.
D. Research Instruments

The primer data was collected to answer the research questions. The study was used observation, interview, questionnaire distribution to research participants in this specific case customers’ satisfaction at PT Jalur Nugraha Ekakurir (JNE) Banjar city branch office.

The study applied Likert scale questionnaire. This scale is used to measure either individual or group of research participants on the attitude, arguments, and perceptions about social phenomenon [23]. Ordinal data must be increased to interval data generated from the interval scale. One of the data conversion methods used by researchers to improve measurement data into interval data is the Successive Interval (MSI) Method.

E. Data Analysis Technique

This study used product moment correlation coefficient analysis, hypothesis testing, and simple linear regression equations.

IV. RESULT AND DISCUSSION

In finding the data research on the effect of Customer Relationship Management (CRM) on customers’ satisfaction, a correlation coefficient (Pearson Product Moment Formula) analysis, coefficient of determination, hypothesis testing, and regression equations.

A. Correlation Coefficient

The study utilized Statistical Product and Solution Service (SPSS) program for windows version 22.0 to determine the magnitude of the correlation or relationship of free variables (Customer Relationship Management (CRM)) to the dependent variable (Customer Satisfaction). The data can be seen in the output calculation results as follows:

<table>
<thead>
<tr>
<th>TABLE I. TABLE SUMMARY</th>
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<tbody>
<tr>
<td>Model</td>
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<tr>
<td>1</td>
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</table>

a. Predictors: (Constant), Customer Relationship Management (CRM)

The data points out that correlation coefficient \( r_{xy} \) is 0.713. From these data, it can be said that correlation of Customer Relationship Management (CRM) to customers’ satisfaction is 0.713. The previous value must be interpreted in accordance with the guidelines [23] as follows:

<table>
<thead>
<tr>
<th>TABLE II. INTERPRETATION GUIDELINES</th>
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<tbody>
<tr>
<td>Coefficient Level</td>
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<tr>
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<tr>
<td>0.00 – 0.199</td>
</tr>
<tr>
<td>0.20 – 0.399</td>
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<tr>
<td>0.40 – 0.599</td>
</tr>
<tr>
<td>0.60 – 0.799</td>
</tr>
<tr>
<td>0.80 – 1.000</td>
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</table>

Based on these guidelines, the data shows that the correlation between Customer Relationship Management (CRM) and customers’ satisfaction has a "strong" relationship, which is between 0.60 - 0.799.

B. Determination Coefficient

The magnitude of the effect of variable X (Customer Relationship Management) on the variable Y (Customer Satisfaction) is calculated using the coefficient of determination formula which can be seen as follows:

\[
DC = r^2 \times 100\%
\]

Note:

\( DC \) = Value of the coefficient of determination (determinant coefficient)
\( r \) = Correlation coefficient value

Calculation:

\[
DC = 0.713^2 \times 100\% = 50.8\%
\]

From aforementioned data, it can be concluded that the number of the influence of Customer Relationship Management (CRM) on customer satisfaction is 50.8% and the rest of other factors are not examined. In this study, the factor of service quality and product / service quality has contributed 49.2%.

Hypothesis test (t test) was also conducted to determine the level of significance of the effect of Customer Relationship Management (CRM) on customers’ satisfaction. Based on the results of the analysis using the SPSS version 22 program, the results are as follows:

<table>
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<th>TABLE III. COEFFICIENTS</th>
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<td>Model</td>
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</table>

a. Dependent Variable: Kepuasan Pelanggan
Based on the calculation above, the value of t count 10.056> t table 1.98472 then Ha is accepted and Ho is rejected. Thus, it was concluded that there was a significant effect of Customer Relationship Management (CRM) on customers’ satisfaction. This result also is similar to previous research which revealed that the CRM system has a positive and significant effect on customer satisfaction [8] [24] [10].

C. Regression Equation

Furthermore, for the regression equation seen in table 3 (coefficients) with the following formula:
\[ Y = a + bX \]
\[ Y = 10.009 + 0.733X \]

Based on the regression equation above, it can be interpreted that every time there is a change or increase in the variable Customer Relationship Management (X) then there is a change or an increase in the variable Customer Satisfaction (Y). Thus, it can be concluded that the balance position between the Customer Relationship Management (variable X), Customer Satisfaction (variable Y) which indicate that variable Customer Relationship Management (CRM) has a positive and significant effect on customers’ satisfaction variables at PT Tiki Jalur Nugraha Ekakurir (JNE) Banjar.

V. CONCLUSION

Customers’ satisfaction at PT Tiki Jalur Nugraha Ekakurir (JNE) is in the good category. The highest score on the statement "the company has a good quality product". The level of customer satisfaction at PT Tiki Jalur Nugraha Ekakurir (JNE) is effected by the customer relationship management (CRM) system implemented by the company. Which with CRM, the company enable study customer characteristics in detail, adjust company offerings to individual requests, and maintain the privacy of each customer.

REFERENCES
