Measuring the usability of e-banking in Special Region of Yogyakarta

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Abstract. Online shopping is become an option because customers do not need to go to the store. Internet banking is a bank facility to help customers in common. This research is aim to know usability aspect of e-commerce banking. Data collection was done by distributing questionnaires in Yogyakarta Special Region. The number of respondents is 140 with the range of age 17-22 years. Anova is used as method research. The results showed that in each group show significantly different. Post hoc analysis explained that learnability and efficiency variable has significantly different, with value p<0,05. The highest average value is in the learnability variable and the lowest is the memorability variable.

1. Introduction

Nowadays internet has grown in the last two decades and many used by education institution, business and finance institution. Education institution have been using internet to study. Social networking and online shop are used for business by the people (Laohapensang, 2009). Potential e-commerce is up to 77% which is used for search the information product and online shopping. While online shopping users reach 8,7 million people with the prediction of transaction value is US$ 4,89 billion in 2016 (Kominfo, 2015). Shopping using internet is become an option because customers just only sit in front of the computer and make transaction via e-banking (Khodijah, 2013). Customer can also request the design with payment option using online (Ollie, 2008). According to Kotler (2002), the benefit of online service for the distributor are lower cost and adapt in market condition. Increasing number of e-commerce every year it easier for the people to search items through the internet. Buying item can using transaction via e-banking. Electronic banking is facility given by the bank for customer to get information. (Widiastuti, 2010). Application information technology in banking is used to processing the information and increase the service for customers. (Widiastuti, 2010) explained that quality system is significantly affect to customer’s trust in increasing internet banking frequency usage.

Related research of internet banking is already studied. (Szopiński, 2016) stated the effect of e-banking. The use of e-banking is influenced by features, compatibility and service to consumers (Boateng, et al., 2016). And Ahmad & Al-Zu’bi, (2011) research about e-banking features. (Oruç and Tatar, 2017) said that communication and convenience significantly influence e-banking.

Based on review related research about e-banking, then it is important to study about e-commerce banking usage. The purpose this research is to know about usability e-commerce banking. In addition to the result of this research can be used as a suggestion to improve the quality e-commerce banking. Improving the quality of e-commerce banking can affect the customers satisfaction. The level of satisfaction will be linear to the level of loyalty so that customers become loyal (Kassim dan Abdullah, 2010; Ahmad & Al-Zu’bi, 2011)

2 Method

2.1 Object and subject of research

Object research is banking e-commerce in Yogyakarta, 140 banking e-commerce customers that using facilities e-banking are the subject of this research. Respondents with criteria (1) male and female (2) banking e-commerce usage (3) age between 18-50 years old.

2.2 Method of collecting data

Collecting data method is use observation and questionnaires. Observation technique in this research was done by direct observation of banking e-commerce and how to using e-banking. Questionnaire was distributed by google form as long as 2 months. Collecting data technique is using accidental sampling. Respondents selected according to specified criteria

3 Questionnaire Variables

The research variables in the questionnaire consist of five attributes:
1. Learnability, with measurement indicator is internet banking is easy to learn and ease of accessing e-banking anywhere and anytime
2. Efficiency, with measurement indicator is website fast responds and completeness of the information provided
3. Memorability, with measurement indicator is website design layout and placement of menus available on the website easy to remember
4. Errors, with measurement indicator is server down frequency transaction failure
5. Satisfaction, with measurement indicator are satisfied with the systems of the services provided by the bank related

4 Results and Discussion

4.1 Characteristic of respondents

Respondents who fill questionnaires as many as 140 respondents with age between 17-22 years. Respondents with age 19 years are 42.5% percentage, followed with respondents with age of 18 years old are 22.5%, 27.5% at age 20 years, 5% 21 years old and 2.5% 22 years old. Respondents male is 50% and female 50%

Differential tests result using anova for each variable are sown in Table 1 below

<table>
<thead>
<tr>
<th>Factor</th>
<th>Sum of Squares</th>
<th>df</th>
<th>Mean Square</th>
<th>F</th>
<th>Sig.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Between Groups</td>
<td>8.584</td>
<td>4</td>
<td>2.146</td>
<td>2.666</td>
<td>.034</td>
</tr>
<tr>
<td>Within Groups</td>
<td>156.987</td>
<td>195</td>
<td>.805</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>165.571</td>
<td>199</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Based on the differential test result on Table 1 indicated that there is significantly differences between groups with P value is 0.034 (p>0.05). It explained that each variable has different value, the importance of the respondent to variable is different. The average value of each variable is shown in Figure 1.

The result of independent pair t-test of variable 1 (learnability) and variable 2 (efficiency) is significantly different with p value 0.047 (p<0.05) with mean difference is 0.4. Variable 1 (learnability) and variable 3 (memorability) are significantly different with p value 0.02 (p<0.05) with mean different 0.64. Another variable has p value 0.05 (p>0.05)

5. Conclusion

Respondent importance level in each variable has different value. Differential test result for groups there is
significantly different with p value is 0.034. Meanwhile, independent pair t-test shown that variable 1 (learnability) and variable 2 (efficiency) is significantly different with p value is 0.047 and mean difference 0.4. Variable 1 (learnability) and variable 3 (memorability) is significantly different with p value 0.02 and mean difference 0.64. meanwhile, the other variables are not significantly different with p value higher that 0.05. Mean value of learnability has the highest value 4.13 and memorability has the lowest variable 3.49. Variable 2, 4 and 5 has the mean value 3.73; 3.78; 3.83, all variables has value higher that 3 of scale 5. Then it’s known that banking e-commerce is easy to use.

References


