The Influence of Computer Self Efficacy, Computer Experience and Interface Design to Acceptance of Electronic Banking: Empirical Study of Bank Customers in Bekasi City

Henny Medyawati, Marieta Christiyanti, and Muhammad Yunanto

Abstract—The object of this research is customers on the five major banks in the city of Bekasi namely Bank Mandiri, BCA, BRI, Bank Danamon, and BNI. This study aimed to analyze the implementation of electronic banking (e-banking) with the approach of Technology Acceptance Model (TAM). The research method is a survey method with a descriptive analysis and statistical analysis. The data is processed and analyzed by multiple linear regression statistical models using statistical software. The results of this study indicate that the person's ability to use computers, and interface design does not significantly influence perceived ease of use (PEOU). Experience of computer use, relevance, security and privacy significantly influence the perceived ease of use. Relevance does not significantly influence the perception of its usefulness (PU). Interface design, and perceived ease of use significantly influence the perception of its usefulness. Perceived ease of use significantly influences the attitude of its use. Perception of usefulness does not significantly influence the attitude of its use. Attitude for its use significantly influence the real usage and acceptance of e-banking.

Index Terms—e-banking, technology acceptance model, customers.

I. INTRODUCTION

Company's survival is largely determined by its ability to compete in the marketplace. Ability to compete requires a strategy that can harness all the power and opportunities, and closing strategic weaknesses and neutralize obstacles faced in business dynamics. All that can be done if management can make decisions based on quality information by way of utilization of the technology applied in the company. One of the efforts made in the application of information technology is the use of electronic banking or the popular terms is e-Banking. E-Banking first appeared in the United States in the mid-1990s, in which financial institutions in the United States to introduce and promote e-banking to provide better banking services [2]. E-banking becomes one of the strategies used by the banking industry to compete. E-banking services provided by banks with the main purpose of providing convenience to customers.

Bekasi city with a population of approximately 2.3 million people located near the capital city of Jakarta. In the period 2003-2006 economic growth in Bekasi always higher than the Province of West Java, in 2003 the economic growth of Bekasi City and increased by 5.25 percent in 2004 to 5.38 percent, then grow high enough up to 6.07 percent in 2006. The measurement to determine how the implementation of e-banking in Bekasi City can be done using information technology adoption or known by the TAM approach. TAM was first introduced by Davis in 1989. TAM describes the relationship between the variables perceived usefulness and perceived easy-of-use, with a variable attitude, intention to use and usage behavior [8], [5]. In the context of research in TAM, perceived usefulness and perceived easy-of-use also called confidence (beliefs) [1], [8]. During this time, the research using TAM is more focused on beliefs with some outcomes such as attitude and usage, i.e, Venkatesh and Brown [9]; Straub, Limayem, & Karahanna [8]. In this study, the model will include external variables that include variables of individual differences and system characteristic.

The two variables used in the individual differences is computer self-efficacy and computer experience, while the variables that will be used for the system characteristic are variable relevance, security and privacy and screen design.

TAM was adapted from the Theory of Reasoned Action (TRA) (Fishbein & Ajzen, 1975) in [6] by substituting the determinants of attitude with a set of sets consisting of two variables, namely perceived usefulness and perceived ease of use. Although both models (TRA and TAM) is able to predict the interests and usage of information technology with the satisfying, TAM are known to be simple and easy to use yet more powerful in modeling the determinants of user acceptance of computer technology [6]. Another researcher proposed that the relevance of e-banking will enhance our customers' needs perception of usefulness[4].

The problem statement for this research are:
1. Are individual differences influence perceived ease of use (PEOU)?
2. Are the system characteristics influence perceived ease of use (PEOU) and perceived usefulness (PU)?
3. Whether perceived ease of use (PEOU) affects perceived usefulness (PU)?
4. Whether perceived ease of use (PEOU) influences the attitude of the user (ATU)?
5. Does the perception of usefulness (PU) affect the attitude of the user (ATU)?
6. What is the attitude of its use (ATU) affect the acceptance of e-banking (ACC)?

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II. DATA AND RESEARCH MODEL

The variables used in this study consisted of eight independent variables and one dependent variable. The independent variables are the computer self-efficacy (CSE), computer experience (CE), relevance (R), security and privacy (SP), screen design (SD), perceived ease of use (PEOU), perceived usefulness (PU), and attitude toward using (ATU) while the dependent variable is the acceptance of e-banking (ACC). Measurement of variables question on computer self-efficacy (CSE), computer experience (CE), relevance (R), security and privacy (SP), screen design (SD), perceived ease of use (PEOU), perceived usefulness (PU), and attitude toward using (ATU) uses Likert scale with 4 choice questions, which is a number 1 for strongly disagree option, the option number 2 for disagree, number 3 for the choice to agree, and number 4 for the choice could not agree more. As for the variable acceptance of e-banking (ACC) uses 7 digit range scale ranging from 1 for strongly disagree option to number 7 for strongly agree choice.

A. Research Model

Fig. 1. Research Model
(Source: Hong et.al.2002 in Nugroho and Didi Achjari)

B. Research Hypothesis

From the model above, the hypothesis that can be constructed are:

H1a: The ability of anyone in using computer (Computer Self-Efficacy or CSE) will affect the perception of ease of use (PEOU)
H1b: Experience over the use of computers (Computer Experience or CE) will affect perceived easy-of-use (PEOU)
H2a: Relevant (Relevance or R) will affect perceived easy-of-use (PEOU)
H2b: Relevant (Relevance or R) will affect the perception of its usefulness (PU)
H2c: Security and Confidentiality (Security and Privacy, or SP) will affect perceived easy-of-use (PEOU)
H2d: Security and Confidentiality (Security and Privacy, or SP) will affect the perception of its usefulness (PU)
H2e: Design Interface (Screen Design or SD) will affect the perception of ease of use or perceived easy-of-use (PEOU)
H2f: Design Interface (Screen Design or SD) will affect the perception of its usefulness (PU)
H3: Perceived ease of use (PEOU) will affect the perception of its usefulness (PU)
H4: Perceived ease of use (PEOU) will affect the attitude of the user or the Attitude Toward Using (ATU)
H5: Perception of usefulness or perceived usefulness (PU) will affect the attitude of the user (ATU)
H6: The attitude of the user (ATU) will affect the acceptance of e-banking

III. RESULT AND DISCUSSION

The data of this research were collected by means of a questionnaire distribute to 500 individual bank customers in Bekasi City. After a follow-up round a total of 470 questionnaires were received, of which 446 were used in the data analysis. The response rate was 89.2 percent. The respondent overview could be explained below.

Fig. 2 Gender of the Respondents

Fig. 2 above show that the number of female respondant are much more than the male. This condition is a coincidence because the sampling method applied in this research is accidental sampling.

Fig. 3. The Age of the Respondents

Respondents in this research majority are come from the age between 20 -25 years that is about 52%, below 20 years is about 3%. Another result is the age between 26-30 is about 14%, 31-35 years is about 15% and above 36 years is about 16%.

Fig. 4 the Educational Background of the Respondents

From the Fig.4 above, we can see that the majority of the respondents in this research are come from the Bachelor degree, that is about 40%, then diploma degree is about 32%, others background which could be graduate from high school or junior high school is about 22%. There is no PhD
A. Factor Analysis

Based on the results of factor analysis, it was found that all the variables used in this study, namely variable CSE, CE, R, SP, SD, PEOU, PU, ATU, and the ACC has a value of KMO MSA (Kaiser Meyer Olkin Measure of Sampling Adequacy) for more than 0.5 and significantly below 0.05, all factor loading was above the cutoff point of 0.55, and on each of the questions in each variable grouped in one factor [7], which declared all these variables can be analyzed further.

After factor analysis then validity and reliability test conducted. The result of the 8 independents variables (CSE, CE, Relevance, Security and Privacy, Screen Design, PEOU, PU and ATU) test can be seen below.

### TABLE I: THE VALIDITY AND RELIABILITY ANALYSIS OF COMPUTER SELF Efficacy

<table>
<thead>
<tr>
<th>Questions</th>
<th>CITC</th>
<th>Cronbach’s Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSE1 You feel easy using e-banking</td>
<td>0.488</td>
<td></td>
</tr>
<tr>
<td>CSE2 You need special training</td>
<td>0.574</td>
<td>0.720</td>
</tr>
<tr>
<td>CSE3 You are an expert to use e-banking</td>
<td>0.593</td>
<td></td>
</tr>
</tbody>
</table>

Note: CITC abbreviation from Corrected Item–Total Correlation

### TABLE II: THE VALIDITY AND RELIABILITY TEST OF COMPUTER EXPERIENCE

<table>
<thead>
<tr>
<th>Questions</th>
<th>CITC</th>
<th>Cronbach’s Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>CE1 With your experience, it is easy to use e-banking</td>
<td>0.517</td>
<td></td>
</tr>
<tr>
<td>CE2 With your experience, you can help other people about e-banking</td>
<td>0.679</td>
<td>0.760</td>
</tr>
<tr>
<td>CE3 You already have many experience with e-banking</td>
<td>0.600</td>
<td></td>
</tr>
</tbody>
</table>

### TABLE III: THE VALIDITY AND RELIABILITY TEST OF RELEVANCE

<table>
<thead>
<tr>
<th>Questions</th>
<th>CITC</th>
<th>Cronbach’s Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>R1 The information is relevance</td>
<td>0.374</td>
<td></td>
</tr>
<tr>
<td>R2 Bank never make mistakes when you make a transaction</td>
<td>0.438</td>
<td>0.610</td>
</tr>
<tr>
<td>R3 The information available is relevance to protect customers transaction</td>
<td>0.513</td>
<td></td>
</tr>
</tbody>
</table>

### TABLE IV: THE VALIDITY AND RELIABILITY TEST OF SECURITY AND PRIVACY

<table>
<thead>
<tr>
<th>Questions</th>
<th>CITC</th>
<th>Cronbach’s Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>SP1 You trust the money transfer system with e-banking</td>
<td>0.645</td>
<td></td>
</tr>
<tr>
<td>SP2 You trust the security of e-banking</td>
<td>0.492</td>
<td></td>
</tr>
<tr>
<td>SP3 The bank has enough control to protect data and the money</td>
<td>0.452</td>
<td>0.756</td>
</tr>
<tr>
<td>SP4 You trust when giving personal information through e-banking</td>
<td>0.533</td>
<td></td>
</tr>
<tr>
<td>SP5 The bank protect the personal information a</td>
<td>0.522</td>
<td></td>
</tr>
</tbody>
</table>

### TABLE V: THE VALIDITY AND RELIABILITY TEST OF SCREEN DESIGN

<table>
<thead>
<tr>
<th>Questions</th>
<th>CITC</th>
<th>Cronbach’s Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>SD1 Design screen is attractive and unique</td>
<td>0.387</td>
<td></td>
</tr>
<tr>
<td>SD2 The structure of the menu is good</td>
<td>0.506</td>
<td></td>
</tr>
<tr>
<td>SD3 The size of the word is appropriate</td>
<td>0.577</td>
<td>0.745</td>
</tr>
<tr>
<td>SD4 The bank’s logo, call center and the help menu are available</td>
<td>0.526</td>
<td></td>
</tr>
<tr>
<td>SD5 All the symbols, language and menus are easy to understand</td>
<td>0.558</td>
<td></td>
</tr>
</tbody>
</table>

From those tables above, all the score for CITC are positive, this can be conclude that all indicator can be use for further analysis.

### TABLE VI: THE VALIDITY AND RELIABILITY TEST OF PERCEIVED EASE OF USE (PEOU)

<table>
<thead>
<tr>
<th>Questions</th>
<th>CITC</th>
<th>Cronbach’s Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>PEOU1 The easiness of e-banking registration</td>
<td>0.516</td>
<td></td>
</tr>
<tr>
<td>PEOU2 Using e-banking is very easy for me</td>
<td>0.650</td>
<td></td>
</tr>
<tr>
<td>PEOU3 You find an easiness to do whatever you want through e-banking</td>
<td>0.494</td>
<td>0.804</td>
</tr>
<tr>
<td>PEOU4 Your understanding about e-banking is very clear</td>
<td>0.679</td>
<td></td>
</tr>
<tr>
<td>PEOU5 With e-banking, you don’t have to work so very hard but works smart</td>
<td>0.493</td>
<td></td>
</tr>
<tr>
<td>PEOU6 e-banking makes you easy to find relevance information</td>
<td>0.557</td>
<td></td>
</tr>
</tbody>
</table>

### TABLE VII: THE VALIDITY AND RELIABILITY TEST OF PERCEIVED USEFULNESS

<table>
<thead>
<tr>
<th>Questions</th>
<th>CITC</th>
<th>Cronbach’s Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>PU1 The use of e-banking fasten your works</td>
<td>0.598</td>
<td></td>
</tr>
<tr>
<td>PU2 e-banking makes you access the much more information, fast and accurate</td>
<td>0.721</td>
<td></td>
</tr>
<tr>
<td>PU3 e-banking makes your jobs effective</td>
<td>0.662</td>
<td>0.834</td>
</tr>
<tr>
<td>PU4 You use e-banking to process other people transaction</td>
<td>0.630</td>
<td></td>
</tr>
<tr>
<td>PU5 e-banking is very helpful in every activity</td>
<td>0.533</td>
<td></td>
</tr>
<tr>
<td>PU6 You will use e-banking in every activity</td>
<td>0.516</td>
<td></td>
</tr>
</tbody>
</table>

Table I until Table VIII are validity and reliability test for independence variables. The next step is validity and reliability for the dependence variable namely acceptance of E-banking. The result for the test can be seen below.

From the test validity and reliability in Table I – Table IX, could be seen that all CSE indicators, CE indicators, R indicators, SP indicators, SD indicators, PEOU indicators,
PU indicators, and ATU indicators have Cronbach’s Alpha value of more than 0.60. From the ACC indicators consisting of ACC1, ACC2, ACC3, ACC4, ACC5, and ACC6, only the ACC2, ACC3, ACC5, and ACC6 are valid.

**TABLE VIII: THE VALIDITY AND RELIABILITY TEST OF ATTITUDES TOWARDS USING (ATU)**

<table>
<thead>
<tr>
<th>Questions</th>
<th>CITC</th>
<th>Cronbach’s Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>ATU1 You will use e-banking in every activity to find relevance information to your job</td>
<td>0.630</td>
<td></td>
</tr>
<tr>
<td>ATU2 You will learn more about the development of e-banking</td>
<td>0.533</td>
<td></td>
</tr>
<tr>
<td>ATU3 Using e-banking is a wise choice to you</td>
<td>0.564</td>
<td>0.786</td>
</tr>
<tr>
<td>ATU4 If you have problem, then you will actively connected to the call center</td>
<td>0.463</td>
<td></td>
</tr>
<tr>
<td>ATU5 You will tell your friend to use e-banking</td>
<td>0.650</td>
<td></td>
</tr>
</tbody>
</table>

**TABLE IX: THE VALIDITY AND RELIABILITY TEST OF ACCEPTANCE OF E-BANKING**

<table>
<thead>
<tr>
<th>Questions</th>
<th>CITC</th>
<th>Cronbach’s Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACC2 Frequency number using e-banking in one week</td>
<td>0.563</td>
<td></td>
</tr>
<tr>
<td>ACC3 The frequency of dependence to vendor or technical support</td>
<td>0.584</td>
<td>0.701</td>
</tr>
<tr>
<td>ACC5 You always use e-banking to find related information to your activities</td>
<td>0.463</td>
<td></td>
</tr>
<tr>
<td>ACC6 You will learn about the e-banking development</td>
<td>0.381</td>
<td></td>
</tr>
</tbody>
</table>

### B. Hypothesis Analysis

The results for hypothesis 1a states that a person's ability in using computers (computer self-efficacy or CSE) does not significantly influence the perception of ease of use or (PEOU). This proves that a person's ability in using computers is not always has a positive confidence against the ease of use. There are still other factors beyond the capability of a person in using computers, such as the existence of several applications or specific programs. Anyone maybe have the ability to use computers but he do not have desire use e-banking and also the factor of lack of ability in using other smart electronic devices such as mobile phones, ATM machines. The use of e-banking is not just limited to the use of computers, it is clear that people who have the ability in using the computer not always influence the ease of use of e-banking. This result is in line with Nugroho and Achjari [6], but different from Wijayanti [11] that there is significant relationship between computer self efficacy and perceived usefulness of internet banking. The result support Goh [3], that if the technology infrastructure that supports are available, easily and quickly, then the e-banking applications are becoming more and easy to use.

Result for hypothesis 1b, proves the existence of significant influence of experience on the use of computers (Computer Experience or CE) on the perception of ease of use or Perceived easy-of-use (PEOU). This proves that the customer will evaluate e-banking easy to use if they have experience of computer use (PEOU). The experience on the use of computers owned by the customer, will make customers more easily in use e-banking. The longer the customer experience in using computers, it is increasingly easy for customers to use e-banking. Although the use of e-banking is not only use the computer, at least the customers already know how to use e-banking through the experience. In other words, customers who have experience on the use of computers will be easier in the use of e-banking, compared with customers who do not have experience on the use of computer. This result is the same as Yuadi[13], that abilities and skills (including the experience of the use of computers) have an influence on perceived ease of use.

The conclusion for hypothesis 2a, show that there is significant relationship between the relevant (Relevance or R) on the perception of ease of use (PEOU). This indicates that if the systems relevant, the information become relevant will make effect on ease of use of e-banking. By producing relevant information, the customers feel ease of using e-banking. The irrelevant information, will make the bank customers complain, which makes the use of e-banking become not easy. This condition will be complicated and spend more time-consuming job, customer have come to the bank or contact the service center to lodge a complaint. This result support Yao [12] that users tend to search for relevant documents handy. When an information technology contains a large amount of relevant information it will be easier for customers to find desired information. This result is different from Wijaya and Fahmy Radhi [10] that relevancy variable show a weak relevant to perceived easy of use.

For hypothesis 2b, this study shows that the relevant variables or Relevance (R) has no significant effect on perceptions of usefulness (PU). This may be due once the occurrence of errors such as information generated in the balance information which is if the information not relevant to the transaction, customers will feel aggrieved.

For hypothesis 2c, this study shows that the variable Security and Confidentiality (SP) has a significant effect on perceived ease of use (PEOU). This shows that the level of high security and confidentiality will make customers feel secure in the use of e-banking. If the safe condition is not met, then the customer will move on to other banks. A relatively frequent problem is the balance that is not appropriate, then the customer will use the other bank. The security and confidentiality in the use of e-banking is still doubted by the customer by the number of cases that occurred lately, such as ATM burglary, and balance discrepancy.

For hypothesis 2d, this study shows that the variable Interface Design (SD) had no significant effect on perceived ease of use or Perceived easy-of-use (PEOU). This shows that the probability of symbols, menus available are not easily understood by customers, or it could be the possibility of the customers who lack sufficient ability to
understand the feature of e-banking. And may be caused by
the customers’ concentration whose open other websites at the
same time. The customers assume that the display of the
e-banking web site is too formal and rigid.
For 2f hypothesis, the results of this study indicate that
variable Interface Design (SD) have a significant influence
on the perception of its usefulness (PU). This shows that a
good screen design, made with full consideration would
provide a useful benefit for customers. With the symbols,
such as assistance (help) will help customers find it useful.
Screen design that is attractive, capable of making customers
comfortably, and easy to understand will make customers to
feel the benefits in using e-banking.

For hypothesis 3, the results of this study indicate that
the perception variables Perceived ease of use or easy-of-use
(PEOU) significantly affects the perception of its usefulness
(PU). This proves that the customer will view the benefits of
e-banking is also based on ease of use of e-banking. In other
words, customers will evaluate e-banking is helpful if they
could use e-banking with ease. The ease of use of e-banking
for example, not too many procedures to fill some forms, the
simple language used can be understood easily by the
customer, the customer will easily and quickly be able to feel
benefit from the use of e-banking. Some benefits are the
effective and efficient in terms of time, effort, and cost, and
other benefits that can be perceived by customers.

For hypothesis 4, proves that this study show a significant
effect between perceived ease of use of the attitude of the user.
This suggests that simply the use of e-banking, making the
customer intends to use e-banking. Due to the ease that is felt
by customers in the use of e-banking, the customer intends to
use e-banking that is expected to provide many benefits for
customers. The ease of registration, transactions, transfer
funds, and other easyness which will provide benefits to
customers so that customers do not have to waste time to visit
the bank to transfer the funds. By making a transfer or
transaction without having to visit the bank will relatively
reduce the level of criminal risk, such as robbery because
customers do not need to carry large enough cash in
quantities that would cause risk to the customer as happened
recently in Indonesia. Usually the customers intend to tell his
friends to use e-banking services, for example the transfer of
funds, although the transaction can only be made for
customers for who are both users of e-banking.

For hypothesis 5, the results of this study indicate that
the variable perception of its usefulness (PU) is significantly has
no effect on the attitude of the user (ATU). This suggests that
the possibility of the absence of optimal benefit to be gained
by customers, such as the existence of several mistakes made
by the bank, or difficulty of transaction process, which only
impede the work or activity of the customers. Additional cost
in the form of usage in e-banking transactions are also could
make the customers not intended to use e-banking services.

For hypothesis 6, the results of this study indicate that the
variables attitude to its use (ATU) significantly affects the
real usage and Acceptance of E-Banking (ACC). This shows that
the attitude or intention of its customers on the use of the
e-banking services cause e-banking service is received and
used intensively by the customer. The acceptance and use of
concrete made by customers is one kind of form of loyalty
that they can give contribution to the bank.

IV. CONCLUSION
The two variables of individual differences are
significantly influence the perceived ease of use of e-banking.
The system characteristics which are relevance, security and
privacy and security design significantly influence the
perception ease of use.
This research have some limitation that are the research
conducted only in Bekasi City and the method applied is
accidental sampling, so the conclusion cannot represent all
the user of e-banking in Indonesia.
For further research, the area for questionnaire distribution
should be enlarge and the alternative method of sampling
should be applied such as purposive random sampling.

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