Enhancing Customer Loyalty Through E-Banking Practices

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Abstract
Enhancing customer loyalty serves as a basic strategy for gaining competitive advantage in the banking industry and enables bankers to make a loyal customer base. The purpose of this work is to propose and empirically investigate a comprehensive mechanism for enhancing customer loyalty to banks via e-banking practices. A questionnaire derived from previous studies and the relevant literature was completed by 472 bank customers in Jaffna city, Sri Lanka. Multiple regression analysis was performed to test hypotheses. The results indicated
that customer loyalty was influenced by content & website layout, privacy & security, and accessibility. The findings of this paper contribute to previous research by adding to existing knowledge relating to e-banking practices and customer loyalty in banking industries.

**Keywords:** e-banking practices, customer loyalty and Sri Lanka
1. Introduction

Technological developments particularly in the realm of telecommunication and information technology streamline the banking industry towards success (Anguelov, Hilgert, & Hogarth, 2004; Goi, 2015). In this context, e-banking practices, which is concerned with the automated delivery of new and traditional banking products and services directly to customers through electronic and interactive communication channels become the prominent level to facilitate the customers (Sohail & Shanmugham, 2003; Srinivasan, Anderson, & Ponnavolu, 2002; Vijayan & Shanmugam, 2015). In line with above discussion, the e-banking practices ensure the compelling advantages that it offers greater flexibility, enhanced market outreach, lower cost structures, faster transactions, broader product lines, greater convenience and customization (Alhinai, Albadi, Alshihi, & Al-Gharbi, 2013). Due to this, banking institutions has already started to focalize on e-banking practices as the core-competence to create the customer value (Angelakopoulos & Mihiotis, 2011; Bauer, Hammerschmidt, & Falk, 2005; Mobarek, 2007; Shahriari, 2014; Srinivasan et al., 2002). In the supportive view, Armstrong, Adam, Denize, and Kotler (2014) suggest that, marketers need to develop their strategic marketing efforts for enhancing customer loyalty to their organization and to their brands by enriching superior customer value.

For all intents and purposes the growth of e-banking facilities enhance the customer loyalty through the customer value creation (Reichheld & Sasser, 1990). Therefore e-banking practices related to customer loyalty have become increasingly interested in issues that researchers and practitioners have dealt with in recent years (Floh & Treiblmaier, 2006). Besides, focusing on the relationships between customers and banks over the internet, there is still a lack of studies which analyze the formation of both concepts (Casaló, Flavián, & Guinalíu, 2008; Ribbink, Van Riel, Liljander, & Streukens, 2004). Numerous studies have been undertaken to examine issues in the wider context of e-banking practices and consumer intention, customer satisfaction and customer preferences, even though comprehensive research in the area of e-banking practices and customer loyalty in the specific context of Sri Lanka has been rather limited.

Above discussion strained that the main purpose of this study to empirically investigate the influence of e-banking practices on customer loyalty. Hence, this study significantly contributes to the literature relating to e-banking practices and customer loyalty. Furthermore, the findings of this study ensures the useful practical implications for the banks and financial institutions to enhance customer loyalty and customer retention by refining their e-banking infrastructure. As a result, the findings of this study may strengthen e-banking services and customer loyalty of existing banks and those who are planning to provide the services in future.

2. Literature Review

In this section, we review the relevant literature on the concept of e-banking practices, customer loyalty and the main antecedents of the e-banking practices.
2.1 E-banking Practices

Increased usage of digital technologies and real-time ICT capabilities already have changed the platform for customers to adopt the e-banking practices (Nudurupati, Tebboune, & Hardman, 2016). Therefore most of the banks and financial intermediaries are adopting e-banking practices to enable a superior banking services to their customers. In line with above fact, internet banking service delivers the customers to carry out a range of banking activities electronically at any time and place with low handling cost (Amin, 2016; Angelakopoulos & Mihiotis, 2011; Narayanasamy, Rasiah, & Tan, 2011; Yoon & Steege, 2013). To be precise, the usage of internet banking has become one of the most important element in e-commerce environment (Wang, Wang, Lin, & Tang, 2003).

As a result, previous researchers have empirically found that e-banking practices has an influence on customers to access internet banking with a higher degree of convenience which offers 24/7 services. (Amin, 2016; Floh & Treiblmaier, 2006; Johnson & Marakas, 2000a; Karjaluoto, Mattila, & Pento, 2002; Lasser, Manolis, & Lasser, 2005; Mukherjee & Nath, 2003; Pikkarainen, Pikkarainen, Karjaluoto, & Pahnila, 2004; Poon, 2007; Rotchanakitumnoai & Speece, 2004; Tan & Teo, 2000; Venkatesh & Davis, 1996). Therefore, today, several financial institutions are endeavoring to emphasize customer-oriented services via internet. In this juncture, it is crucial to implement new banking services in order to develop and keep better relationships with customers. Alhinai et al. (2013) listed many benefits that e-banking can offer, such as real-time services, online banking services, account to account transfer, demand draft or request for a cheque book, finding out the latest account balance, getting detailed account statements, making inquiry on account statement, paying their credit card dues directly to the bank through the net and paying utility bills. Besides, the e-banking provides faster, easier and more reliable services to customers (Aladwani, 2001).

2.2 Customer Loyalty

Organizations in this contemporary world use customer loyalty as a core consequence to gain competitive advantage over its rivals. Therefore, a loyal customer is considered as a valuable competitive asset for any organizations in the globalized level (Dekimpe, Steenkamp, Mellens, & Abeele, 1997; Flavián, Guinaliu, & Gurrea, 2006; Keating, Rugimbana, & Quazi, 2003). In this supportive way, Kotler and Armstrong (2013) suggest that the cost of attracting a new customer may be five times the cost of keeping a current customer delighted. Moreover, It is very critical to create loyalty among customers of the service providing organizations like banking and financial institutions (Casaló et al., 2008; Kheng, Mahamad, Ramayah, & Mosahab, 2010). Banks and other financial intermediaries recognize that, the information technology has already become an important pillar to create loyalty among customers (Bukhari & Kazi, 2016; S.-C. Chen, 2015). Therefore, the banks introduced, E-banking as the newest delivery channel for banking services to create customer loyalty (Mobarek, 2007).

More than ever before, strong competition, fragmentation of markets, short life cycles of products and increasing customer awareness and complexity are the prominent challenges to
the banking sector (Taleghani, Gilaninia, & Mousavian, 2011). However, many customers are highly enthusiastic about internet banking and its services due to its self-service banking facilities (Rotchanakitumnuai & Speece, 2003; Sarel & Marmorstein, 2003). Hence, Scholars initiated to examine the influence of e-banking practices on customer loyalty (Al-Alak, 2014; Amin, 2016; Andaleeb, Rashid, & Rahman, 2016; Auta, 2010; Kaur & Kiran, 2015; Masoud & AbuTaqa, 2017; Mohsin Butt & Aftab, 2013; Nupur, 2010). At this juncture, it is crucial to implement new banking services in order to develop and keep better relationships with customers. Hence building up competitive predominance almost depends on customers’ loyalty with banking service (Srinivasan et al., 2002).

There are several studies focusing on the relationships among customer satisfaction, customer loyalty and e-banking practices over the internet in the western perspective (Adapa & Cooksey, 2013; Casaló et al., 2008; Gorgani, 2016; Petzer et al., 2017; Thakur, 2014). But in a developing country like Sri Lanka, there is still a lack of studies that analyse the formation of above concepts. Whilst, there is a huge need for this kind of study in the northern part of Sri Lanka in the post war context, the aim of this study is to examine the influence of e-banking practices on customer loyalty. Moreover the finding of this study helps the banks and financial institutions which are operating in this region to formulate the appropriate strategies to build customer loyalty in the context of electronic banking.

2.3 Underpinning Theory of Technology Acceptance Model (TAM)

The theory of Technology Acceptance Model (TAM) is a widely accepted model in the realm of Information Technology. TAM was developed by Davis (1989) to theorize the usage behavior of computer technology. The TAM was adopted from another popular theory called Theory of Reasoned Action (TRA) (Ajzen & Fishbein, 1975), which explains the relationship between user’s beliefs, attitudes and intentions. The TAM indicates that, user acceptance can be explained by two beliefs as perceived usefulness and perceived ease of use (Chuttur, 2009; Dwivedi, Rana, Jeyaraj, Clement, & Williams, 2017). Within the last two decades, the TAM has been tested, refined, and extended to better understand the intention to use technology. Therefore, researchers have predominantly used the TAM to understand the e-banking practices (Al-Qeisi, Dennis, Alamanos, & Jayawardhena, 2014; Diatmika, Irianto, & Baridwan, 2016; Martins, Oliveira, & Popović, 2014; Park, Baek, Ohm, & Chang, 2014; Pikkarainen et al., 2004). Besides, TAM offered a strong and simple explanation of the acceptance of technology and the behavior of the technology users (Davis, 1989) and it predicts the usage behavior of a new technology by its users (Venkatesh & Davis, 2000).
Davis (1989), believes, there were two foremost dimensions in technology users’ acceptance specifically, perceived ease of use and perceived usefulness. Perceived ease of use is a person’s persuasion that the usage of an information system technology was easy and unambiguity. Perceived usefulness is the degree of a person’s belief that, the usage of an information system technology could enhance performance and cost effective.

Based on the aforesaid model, perceived ease of use and perceived usefulness influence attitude towards using, which in turn predicts the intention towards using the system. To this end, intention predicts the actual usage of system (Agarwal, Sambamurthy, & Stair, 2000; Chau, 2001; Hong, Thong, & Wai-Man Wong, 2002; Johnson & Marakas, 2000b; Pikkarainen et al., 2004; Poon, 2007; Venkatesh & Davis, 1996; Wang et al., 2003). Therefore the researchers adopted this model to assess the e-banking practices. Besides the basic TAM model, the e-banking practices could be examined via five dimensions such as, content and website layout, speed of delivery, privacy and security, convenience and accessibility (Ahmad & Al-Zu’bi, 2011; Gorgani, 2016; Kazi, 2013; Poon, 2007). In accordance with the above discussion, this study aimed to find out and add references to the influence of perceived ease of use and perceived usefulness on attitude toward using and on actual usage of e-banking among the banking customers.

2.4 The Influence of E-Banking Practices on Customer Loyalty

Loyal customers are now viewed as the source for company’s profit, growth and market share (Ariff, Yun, Zakuan, & Jusoh, 2012; Yuen & Chan, 2010). Banking industry has moved instantly to deploy and offer new banking services via e-channels for customers and in consequence the e-banking services have boomed promptly (Kaur & Kiran, 2015). Interestingly, researchers focus on the concept of loyalty within the context of electronic commerce, or e-loyalty. (Toufaily, Ricard, & Perrien, 2013). Today, several financial institutions are endeavoring to emphasize customer–oriented services. At this juncture, it is crucial to implement new banking services in order to develop and keep better relationships.
with customers. However Luarn and Lin (2003) endorse that the loyalty is almost identical to those of traditional loyalty from an online service provider. In support of this view, Ariff et al. (2012) suggest building loyalty in internet banking is prominent for banks to ensure high rate of customer retention. Further, it is recognized that e-banking practices aligned with higher customer satisfaction, which directs to relationship an association with greater revenues, increased cross-sell rations, higher customer loyalty, retention and bigger market share (Amin, 2016). E-banking system is one of best examples of innovative technologies that have a great potential to create a win-win scenario for both customers and businesses (Alhinai et al., 2013). The foregoing discussion indicates an association between e-banking practices and customer loyalty, so the following hypothesis is formulated:

**H1:** e-banking practices positively affect customer loyalty

### 2.5 The Dimensions of E-Banking Practices and Their Influences on Customer Loyalty

#### 2.5.1 Content and website layout

e-banking practices refers to the consumers overall evaluation and judgment of the excellent and quality of electronic services offering in the virtual marketplace (Santos, 2003). In this way, firms can gain abundant benefits from well-designed websites (Al-Qeisi et al., 2014). Therefore the contents on website is one of the major factors influencing e-banking practices (Casaló et al., 2008; Poon, 2007; Sohail & Shanmugham, 2003). Generally, proper navigational attributes and search facilities in website contents lead to higher level of interaction, which tap the customers mind favourably to use the system (Pikkarainen et al., 2004; Sohail & Shanmugham, 2003). Moreover, intellectual capacity of the contents and tasks in a website help to reduce possible errors, which is a key aspect of e-banking services (Casaló et al., 2008; Jayawardhena & Foley, 2000; Pikkarainen et al., 2004). In this context the content and web site layout facilitates efficient and effective delivery of e-banking services Therefore it may influence the levels of customer loyalty. As a consequence, we formulate the following hypothesis:

**H1a:** Content and website layout affect customer loyalty to e-banking services.

#### 2.5.2 Speed of Delivery

Customers are particularly interested in the speed with which a service is offered or delivered because speed of e-transactions flow is critical to user satisfaction of using e-banking services (Liao & Cheung, 2002; Poon, 2007). Besides that, Johnston (2011) illustrates that certain actions, such as increasing the speed of processing information and customers, are likely to have an effect on customer satisfaction and loyalty. In which, time saving may be the driving force of customer loyalty in the e-banking scenario. (Gerrard, Barton Cunningham, & Devlin, 2006; Liao & Cheung, 2002; Polasik & Piotr Wisniewski, 2009; Poon, 2007; Siu & Mou, 2005). In line with above facts, speed of delivery has substantial effects on customer loyalty. Therefore, it is expected that,

**H1b:** Speed of delivery affect customer loyalty to e-banking services.
2.5.3 Privacy and Security

The past researches suggest that privacy and security is an important factor that affect users' intention to adopt e-based transaction systems (Ahmad & Al-Zu'bi, 2011; Y. H. Chen & Barnes, 2007; Gerrard & Barton Cunningham, 2003; Gorgani, 2016; Poon, Yong, & Lam, 2008; Sohail & Shanmugham, 2003; Wu & Chang, 2005). Privacy and security denote the proper authorization and confidentiality of customer's information and transactions in a bank (Katsikas, Lopez, & Pernul, 2005; Kolsaker & Payne, 2002; Liao & Cheung, 2002). Therefore customer preference and confidence on e-banking would also largely depend on how the banks would deal with any erroneous transactional and security concerns that may occur during online banking (Polasik & Piotr Wisniewski, 2009; Sohail & Shanmugham, 2003). To this end, it strains that, privacy and security in e-banking services motivate the customers to engage in e-banking services (Flohek & Treiblmaier, 2006; Lallmahamood, 2007). From the discussion above, it can be assumed that there might be an impact of privacy and security on customer loyalty. Therefore, in this study, we propose that:

H1c: Privacy and security positively affect customer loyalty to e-banking services.

2.5.4 Convenience

It has been suggested that convenience is one of the most beneficial features of e-banking (Daniel, 1999; Kazi, 2013; Liao & Cheung, 2002; Usman & Usman, 2012). Because e-banking provides a higher degree of convenience that enables customers to access e-banking services at all times that is 24/7 access (Lichtenstein & Williamson, 2006) and any places it could never be in traditional banking (Wan, Luk, & Chow, 2005). E-banking is more convenience for people to pay their utility bills, check balances, transfer funds, apply for auto loans and mortgages, and use other complementary services at the tip of a finger anytime from anywhere (Kazi, 2013; Ramsaran, 2003; Yu & Fang, 2009). Therefore from the viewpoint of the consumers, the decision to use e-banking is frequently motivated by convenience and efficiency (Bruno, 2003; Polasik & Piotr Wisniewski, 2009). As a result, the preceding discussion indicates an influence of this e-banking dimensions on customer loyalty and this discussion also suggests that, convenience has an effects on customer loyalty. Therefore, it is hypothesized:

H1d: Convenience affect customer loyalty to e-banking services.

2.5.5 Accessibility

In our study we focus on the accessibility of information as ease of access to electronic banking applications. Accessibility is the one of the major driver in commercial use of the web which allows to access the information more easily (Rotchanakitumnuai & Speece, 2004). Accessibility defines as the ability of users to access information and services from the web site (Ahmad & Al-Zu’bi, 2011). Furthermore, easy access encourages the customers to engage in e-banking services without frequent delay and frustration (Rotchanakitumnuai & Speece, 2004). In addition, banks should concentrate on the investment in Information
technology infrastructure to make the proper layout of website and facilitate the customers to assess the information simply (Lederer, Mirchandani, & Sims, 2001). Moreover, Sadeghi and Heidarzadeh Hanzaei (2010), Poon et al. (2008), Casaló et al. (2008), and Lièbana-Cabanillas, Munoz-Leiva, and Rejón-Guardia (2013), express that accessibility is advantageous for attaining user satisfaction and engagement in the adoption of electronic banking. In this sense, we establish the following hypothesis:

\[ H_1e: \text{Accessibility affect customer loyalty to e-banking services.} \]

2.6 Framework of this Study

This study proposes a framework, which is depicted as follows:

![Figure 2. Framework of this Study](image)

3. Methods

3.1 Sample and Survey Administration

Our research population consist all the customers of selected banks which are operating in Jaffna city, Sri Lanka. Such as Bank of Ceylon, People's Bank, Commercial Bank, Hatton National Bank, Sampath Bank, Nation Trust Bank, and Cargills Bank. E-banking service in Sri Lanka is presently being offered to two sets of clients, namely, individual customers and business clients. This research mainly focused on Commercial banks’ individual customers as the target population in Jaffna city. Therefore, the sample for this study comprised customers who have an account at above Commercial banks in this city. Participants were students, Government and private sector employers and businessman. In this population private sector commercial banks were considered. Systematic quasi-random sampling was adopted to recruit participants for this research. Whilst, causal research approach under the conclusive research design was used in this study by the quantitative way to find out the impact of e-banking practices on customer loyalty. For that purpose, the paper-based surveys were distributed to 550 customers, from which 472 were completed and returned. Of these, 84 surveys had missing data, so they were discarded. Table I presents the demographic
characteristics of respondents.

3.2 Measures and Instrument Development

A paper based survey instrument was developed from previous validated scales that were adapted for the purpose of this study. The scales of e-banking practices included 28 items under the five dimensions: content and website layout, speed of delivery, privacy & security, convenience and accessibility. This means that, contents & website layout, was operationalized using six items; speed of delivery, using five items; privacy & security, using six items; convenience using six items and accessibility, using six items. So these 28 items are adopted from Poon (2007) and customer loyalty was measured with six items, of which the first two were adopted from Lin and Wang (2006) and other four taken from Casaló et al. (2008). The questionnaire has been slightly modified without changing the original contents as it translated into local language to ensure suitability for the research context and it mainly consisted two sections. Section A consists of personal profile of the respondents and section B consists of 34 statements relating to the dimensions of e-banking practices and customer loyalty. A seven-point Likert type scale anchored at one for “strongly disagree” and seven for “strongly agree” was used for items operationalizing all the constructs.

Table I. Demographic profiles of the respondents ($n = 388$)

<table>
<thead>
<tr>
<th>Category</th>
<th>N</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type of Account</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saving</td>
<td>287</td>
<td>74.0</td>
</tr>
<tr>
<td>Current</td>
<td>101</td>
<td>26.0</td>
</tr>
<tr>
<td><strong>Gender</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Male</td>
<td>216</td>
<td>55.7</td>
</tr>
<tr>
<td>Female</td>
<td>172</td>
<td>44.3</td>
</tr>
<tr>
<td><strong>Age</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Below 20</td>
<td>16</td>
<td>4.1</td>
</tr>
<tr>
<td>21 – 30</td>
<td>277</td>
<td>71.4</td>
</tr>
<tr>
<td>31 – 40</td>
<td>61</td>
<td>15.7</td>
</tr>
<tr>
<td>41 - 50</td>
<td>25</td>
<td>6.4</td>
</tr>
<tr>
<td>Above 50</td>
<td>9</td>
<td>2.3</td>
</tr>
<tr>
<td><strong>Profession</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Student</td>
<td>83</td>
<td>21.4</td>
</tr>
<tr>
<td>Businessman</td>
<td>137</td>
<td>35.3</td>
</tr>
<tr>
<td>Employee in Private/Government Sector</td>
<td>168</td>
<td>43.3</td>
</tr>
<tr>
<td><strong>Monthly Individual Income</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Below LKR. 25000</td>
<td>97</td>
<td>25.0</td>
</tr>
<tr>
<td>LKR. 25000 – LKR. 50000</td>
<td>207</td>
<td>53.4</td>
</tr>
<tr>
<td>Above LKR 50000</td>
<td>84</td>
<td>21.6</td>
</tr>
</tbody>
</table>
To ensure content validity, the survey instrument was vetted by four academics with expertise in the discipline of Marketing, Banking & Finance. The survey instrument, originally written in English, was translated into Tamil, the respondents’ mother tongue. The survey instrument was translated back into English and was cross-checked by two other bilingual researchers to ensure the reliability and validity of translation. The respondents had the option of responding to either the English or Tamil language survey based on their language proficiency. The survey instrument was pretested with eight regular customers of the banks. Based on their feedback, some minor changes were incorporated into the wording and format of the survey instrument.

4. Analysis and Results

4.1 Reliability and Validity Analysis

In order to ensure the internal consistency of the measure, a reliability test was conducted using Cronbach’s alpha, which was higher than 0.70, indicating strong internal consistency (Creswell, 2005; Hair Jr, Black, Babin, Anderson, & Tatham, 2010). This suggests that the items concerned adequately measure a single construct for each tested variable (content and website layout, speed of delivery, privacy and security, convenience, accessibility and customer loyalty). Whilst, the Overall Cronbach alpha value was 0.843. Reliability analysis for each construct are shown in Table II. Also, the test indicated the mean value (5.60 to 6.00) with the standard deviation (0.46 to 0.67).

Table II. Reliability Analysis

<table>
<thead>
<tr>
<th>Construct</th>
<th>Cronbach's Alpha</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content &amp; Website Layout</td>
<td>0.812</td>
</tr>
<tr>
<td>Speed of Delivery</td>
<td>0.823</td>
</tr>
<tr>
<td>Privacy &amp; Security</td>
<td>0.812</td>
</tr>
<tr>
<td>Convenience</td>
<td>0.823</td>
</tr>
<tr>
<td>Accessibility</td>
<td>0.833</td>
</tr>
<tr>
<td>Customer Loyalty</td>
<td>0.799</td>
</tr>
</tbody>
</table>

At the same time, researchers performed KMO and Bartlett’s test to accurately assess the construct validity for each measurement item. Based on Table III, the KMO measure of sampling adequacy is more than 0.6 (0.837), which indicates sufficient inter-correlations (Pallant, 2007), whereas the Bartlett’s Test of Sphericity is significant at level 0.01 (Chi-square = 882.153). Both results indicating that the constructs are in validity (Heppner & Heppner, 2004; Sanzo, Santos, Vázquez, & Álvarez, 2003).
Besides, skewness and kurtosis values of a data distribution are widely applied to determine normality of a dataset (George & Mallery, 2003; Joanes & Gill, 1998; Kim, 2013). In this method, normality of a data distribution is assumed, if statistical values of skewness or kurtosis are within the value ± 2.56 (Hair Jr et al., 2010; Tabachnick & Fidell, 2007). Therefore Skewness and kurtosis values of each construct are an additional evidence of normal distribution and we can come to the conclusion that the data among all the constructs are normally distributed. In addition the Pearson correlation coefficient presented to explain the relationship as well as the statistical significance between the factors (see the Table IV: Descriptive statistics and Correlation matrix for study variables). The results reveal that most of the constructs are significantly correlated with each other, the correlation ranging from 0.437 to 0.707. It proved all the associations were found to be significant at 99% level and there were positive correlations among all the constructs of e-banking practices and customer loyalty.

Table IV. Descriptive statistics and Correlation matrix for study variables

<table>
<thead>
<tr>
<th>Construct</th>
<th>M</th>
<th>SD</th>
<th>SKE</th>
<th>KUR</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Content &amp; Website</td>
<td>5.87</td>
<td>0.61</td>
<td>-1.05</td>
<td>2.25</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Layout</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. Speed of Delivery</td>
<td>5.60</td>
<td>0.60</td>
<td>-0.06</td>
<td>-0.09</td>
<td>.464**</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. Privacy &amp; Security</td>
<td>5.89</td>
<td>0.60</td>
<td>-0.79</td>
<td>1.29</td>
<td>.483**</td>
<td>.506**</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. Convenience</td>
<td>6.00</td>
<td>0.58</td>
<td>-0.86</td>
<td>1.24</td>
<td>.417**</td>
<td>.485**</td>
<td>.606**</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. Accessibility</td>
<td>5.68</td>
<td>0.67</td>
<td>-1.22</td>
<td>2.33</td>
<td>.435**</td>
<td>.364**</td>
<td>.381**</td>
<td>.337**</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. E-banking Practices</td>
<td>5.81</td>
<td>0.46</td>
<td>-0.66</td>
<td>1.40</td>
<td>.750**</td>
<td>.749**</td>
<td>.792**</td>
<td>.752**</td>
<td>.691**</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>7. Customer Loyalty</td>
<td>5.82</td>
<td>0.67</td>
<td>-1.02</td>
<td>1.28</td>
<td>.649**</td>
<td>.460**</td>
<td>.489**</td>
<td>.437**</td>
<td>.589**</td>
<td>.707**</td>
<td>1</td>
</tr>
</tbody>
</table>

Note: **. Correlation is significant at the 0.01 level

M= Mean, SD= Std. Deviation, SKE= Skewness and KUR= Kurtosis

4.2 Test of Multi-Collinearity

Test of normality of the data, and non-existence of Multi-Collinearity is an important assumption, generally which is done before conducting the correlation and regression
(Santhapparaj & Alam, 2005). As stated by Ahsan, Abdullah, Fie, and Alam (2009), there are two major methods were employed in order to determine the presence of multi-collinearity among independent variables. These methodologies involved calculation of both a Tolerance test and Variance Inflation Factor (VIF) (Ahsan et al., 2009; Kleinbaum, Kupper, & Muller, 1988).

Table V. Test of Collinearity

<table>
<thead>
<tr>
<th>Construct</th>
<th>Tolerance</th>
<th>VIF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content &amp; Website Layout</td>
<td>.647</td>
<td>1.545</td>
</tr>
<tr>
<td>Speed of Delivery</td>
<td>.639</td>
<td>1.565</td>
</tr>
<tr>
<td>Privacy &amp; Security</td>
<td>.533</td>
<td>1.875</td>
</tr>
<tr>
<td>Convenience</td>
<td>.580</td>
<td>1.723</td>
</tr>
<tr>
<td>Accessibility</td>
<td>.755</td>
<td>1.325</td>
</tr>
</tbody>
</table>

As can be seen from the Table V, none of the Tolerance levels is < or equal to 1 and VIF values are perfectly below 5. It can be seen clearly that VIF range between 1.325 and 1.875 values which are well-below five. Thus, the measures selected for assessing independent variables in this study do not reach levels indicate of multi-collinearity.

4.3 Regression Analysis

After examining the multicollinearity and normality test for each aspect of the e-banking practices, the multiple regression analysis was performed in order to predict the significant impact of e-banking practices and its dimension on customer loyalty. Generally, regression analysis is used to answer the question as what extent independent variables influence on the dependent variable (Heppner & Heppner, 2004; Oly Ndubisi, 2007).

In this context, research question and hypotheses were tested via multiple regression analysis and the results of the regression analysis and hypotheses testing are summarized in Table VI.

Table VI. Regression Analysis and Hypotheses Testing

<table>
<thead>
<tr>
<th>Construct</th>
<th>Coefficients (β)</th>
<th>t-value</th>
<th>Sig.</th>
<th>Conclusion</th>
</tr>
</thead>
<tbody>
<tr>
<td>Content &amp; Website Layout</td>
<td>.398</td>
<td>9.447</td>
<td>0.000</td>
<td>H1a: Accepted</td>
</tr>
<tr>
<td>Speed of Delivery</td>
<td>.077</td>
<td>1.815</td>
<td>0.070</td>
<td>H1b: Rejected</td>
</tr>
<tr>
<td>Privacy &amp; Security</td>
<td>.092</td>
<td>1.988</td>
<td>0.048</td>
<td>H1c: Accepted</td>
</tr>
<tr>
<td>Convenience</td>
<td>.066</td>
<td>1.487</td>
<td>0.138</td>
<td>H1d: Rejected</td>
</tr>
<tr>
<td>Accessibility</td>
<td>.330</td>
<td>8.472</td>
<td>0.000</td>
<td>H1e: Accepted</td>
</tr>
</tbody>
</table>
Consistent with above Table VI, the value of adjusted R Square is 0.556. Hence, the result suggested that 55.6 percentage of variance was explained by this model and which is in significant level. Our regression results show that the e-banking practices has a significant positive influence on customer loyalty. Therefore H1: e-banking practices affect customer loyalty was supported. Furthermore, content & website layout (β= 0.398, P < 0.05), privacy & security (β= 0.092, P < 0.05), and accessibility (β= 0.330, P < 0.05) had significant positive influence on customer loyalty, hence H1a, H1c, and H1e were supported. Nevertheless, customer loyalty was not influenced by speed of delivery (β= 0.077, P> 0.05), and convenience (β= 0.066, P> 0.05), So H1b, and H1d were not Supported.

5. Discussion and Conclusion

Our basic assumption is that e-banking practices and its sub dimensions namely; content & website layout, speed of delivery, privacy & security, convenience, and accessibility influence the customer loyalty on selected commercial banks in the Jaffna city. A multiple regression modeling approach was proposed as an effective method for studying the impact of e-banking practices on customer loyalty. As displayed in Table VI, the adjusted R2 is 0.556, suggesting that the five e-banking factors explain close to 56 per cent of the variance for the dimension of customer loyalty. Specifically, content & website layout (β= 0.398) has the greatest positive and significant impact on customer loyalty. This finding suggests that banks having an attractive screen layout and design with clear and simple menus easily make the customers to engage in e-banking services. This empirical evidence has provided significant support for the e-banking literature (Al-Qeisi et al., 2014; Casaló et al., 2008; Pikkarainen et al., 2004; Poon, 2007; Sohail & Shanmugham, 2003).

Further, privacy & security (β= 0.092, P < 0.05) significantly and positively influenced on customer loyalty. This suggests that, keeping customer information private and confidential make the customers satisfied and finally loyal to the organization. As these results are consistent with the existing literature (Ahmad & Al-Zu’bi, 2011; Amin, 2016; Casaló, Flavián, & Guinaliu, 2007; Poon, 2007; Sheng & Liu, 2010; Wolfinbarger & Gilly, 2003). Moreover, accessibility in e-banking practices (β= 0.330, P < 0.05) significantly and positively influenced on customer loyalty. This finding suggests that, accessibility in e-banking simplifies the tasks to proceed the banking activities easily without much stress and
frustration. Hence, this way of facilitation make customers to engage in e-banking services than the traditional mood. This finding which is consistent with that of extant literature (Casaló et al., 2008; Dolatabadi & Pool, 2013; Liébana-Cabanillas et al., 2013; Poon, 2007; Sadeghi & Heidarzadeh Hanzaee, 2010; Sohail & Shanmugham, 2003).

In contrast, speed of delivery (β= 0.077, P> 0.05) has no significant influence on customer loyalty. Even though the speed of delivery is a key driver of customer loyalty, in our study it is proved that customer loyalty has not been statistically influenced by speed of delivery. One possible explanation to this scenario may be this dimension includes measures, such as easy to navigate the bank site due to smooth speed and speed of e-transactions flow is faster than traditional banking channels, which most banks provide in the normal course of business in the e-banking services. To this end, convenience (β= 0.066, P> 0.05) in the e-banking practices was not significant in predicting customer loyalty. This indicates that, the services available at anytime and anywhere are not so impressive as to guarantee a long-term customer in e-banking scenario.

5.1 Implications

Theoretically, the outcome of this study provides empirical evidence for how to make loyal customers to banks through e-banking. Further, this study and its findings can significantly contribute to the existing literature relating to e-banking practices and customer behavior specifically customer loyalty. Customer loyalty can be enhanced by developing a habit among the bank consumers to use the e-banking. We found that content & website layout, privacy & security, and accessibility were the most important factors that affect customer loyalty relating with e-banking. Therefore, managers should focus on the above mentioned dimensions to enhance the loyalty in e-banking platform.

5.2 Limitations and Suggestions for Future Research

In addition, this study was confined to commercial banks in jaffna city, Sri Lanka. Therefore, to better generalize the findings of this study, it need to be extented with the commercial banks in other part of the country. Further, the current study did not include all possible variables which affect customer loyalty towards e-banking practices such as fees and charges, user experience, trust in one’s bank, reluctance, interactivity and perceived risk. It needs to be further enhanced with other possible independent variables which significantly influence customer loyalty. Further than, researchers can examine the influence of mediator and moderator variables, which may create the comprehensive model.

References


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