Antecedents of the User Behavior for Online Businesses: A Case of Pakistan

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ABSTRACT

Purpose: This study tries to investigate the antecedents of user behavior like purchase intentions and e-loyalty in the context of Pakistan. More specifically, it studies the relationship between perceived flow, perceived usefulness, perceived ease of use and the user behavior constructs which this study considers are e-loyalty and purchase intentions.

Design/Methodology/Approach: Primary Data is obtained through survey from 466 respondents and was analyzed through PLS-SEM approach.

Findings: Findings suggest that perceived flow and technological acceptance model constructs which are perceived ease of use and perceived usefulness have significant positive impact on the e-loyalty and purchase intentions in the developing economy like Pakistan.

Implications/Originality/Value: This study is a contribution to the literature acknowledging the importance of flow and technology acceptance model constructs as antecedents of user behavior for online businesses in the context of developing country like Pakistan. This study guides practitioners for designing such a website that make a user feel ‘flow’ situation while surfing their website. If they are able to make their visitors feel flow, they are more likely to generate purchase intention and develop e-loyalty for the e-vendor.

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1. Introduction

Loyalty has become a center of focus with in e-businesses due to the fact that consumers switch from the websites more frequently (Tsai, Huang, Jaw, & Chen, 2006). It is important not only as a key strategy for the company, but it is also necessary for the websites in order to continue their operations over internet. This is emphasized by both, the practitioners and the academic researchers (Schefter & Reichheld, 2000). Business forums have keen interest in the loyalty because of its importance in the electronic commerce. Academic community is also appealing for studies which will help both, the businesses and the academics communities to understand loyalty formation (Hsu, Wu, & Chen, 2013). E-loyalty is explained usually by one factor, satisfaction, which is shown to be a major determinant of online environment and offline loyalty (Anderson & Srinivasan, 2003). Previous researches indicate that satisfaction builds and maintains long term and loyal customer pool and then ultimately, results in the appropriate outcomes in the transactions over internet (Evanschitzky, Iyer, Hesse, & Ahlert, 2004; Wu & Chang, 2005). Moreover, it was found that satisfaction is an important antecedent for the loyalty over internet (Anderson &
Many studies suggest that website’s technology factors which are related to consumers’ behavior and psychological state, influence the customer e-loyalty and e-satisfaction. (Anderson & Srinivasan, 2003; Shih, 2004). It has also been mentioned that Flow describes human-computer interface and thus, it is an important factor to determine online behavior of the user (Chang & Zhu, 2012; Lee & Tsai, 2010; Zhou & Lu, 2011). Users feel joy and pleasure when they experience flow, which facilitates to get positive response from the online customer (Hoffman & Novak, 1996). So, potential importance of flow cannot be disregarded (O’Cass & Carlson, 2010). Hoffman and Novak (1996) concluded that chance of website’s success depends upon the chances of users to experience flow.

Although researches have attempted to find the antecedents of the e-loyalty and purchase intentions in online context, but difference of the behavior of the visitor is kept unnoticed which requires to be addressed (Hsu, Chang, & Chen, 2012). This study combines technological acceptance model with user’s psychological state of mind using the website, like Perceived Flow and checks their combined impact on e-loyalty and purchase intentions.

This paper is organized in sections. Section 2 consists on definitions of variables and hypothesis development along with research model. Section 3 deals with the methodology while section 4 is related with data analysis and findings of the survey. Implications are presented in section 5 which is followed by research limitations in section 6.

2. Literature Review

2.1 E-Service and E-Loyalty

Anderson and Srinivasan (2003) said that satisfaction can be described as the experience through using a product or service. According to them, e-satisfaction is the pleasure or happiness in the online context for having a positive purchase experience from e-vendors. According to Evanschitzky et al. (2004), e-satisfaction has gained much attention of the marketing studies in recent times. This is because satisfied persons are more likely to re-purchase from that e-commerce firm (H. Lee, Choi, & Kang, 2009). Moreover, they have high degree of e-loyalty as compared to those consumers who are not satisfied (Anderson & Srinivasan, 2003). Many researches have affirmed that e-satisfaction doesn’t only develop and maintain a customer pool which is loyal to the firm (Evanschitzky et al., 2004), but it is also a major factor of online re-purchase intentions. (Bhattacherjee, 2001; Hsu, Yen, Chiu, & Chang, 2006). Thus, for developing the e-loyalty for online business, they face a challenge of satisfying the consumer needs higher than the competitors (Oliver, 1999). According to Srinivasan, Anderson, and Ponnavolu (2002), e-loyalty can be described as the positive attitude of the consumer which results in the more purchases from the specific online business firm. However, according to Gremler (1995), that behavioral and attitudinal aspects must be taken into account while considering loyalty. Cyr, Bonanni, Bowes, and Ilsever (2005) concluded that loyal consumers are more likely to repurchase from the e-retailer in the future. Therefore, loyal customers have crucial importance for the website’s financial outcomes (Schefter & Reichheld, 2000). Heskett, Sasser, and Schlesinger (1997) proposed that a slight rise in the loyal customer percentage will lead a rise in profitability and then ultimately, a rise in the value of company. As attracting new customers to the website and then retaining it costs high and it is difficult (Schefter & Reichheld, 2000), loyalty has crucial part in the success of an e-commerce firm (Heskett et al., 1997). Consequently, e-loyalty is taken as the dependent construct in this study.

2.2 Purchase intentions

Along with satisfaction of the customer, purchase intention of the customer is also important to consider as intentions predict the behavior of the customer. As per the findings of Zeithaml, Berry, and Parasuraman (1996), purchase intention is the dimension of behavior of the consumer. As purchase intention is linked with actual behavior, it is utilized for prediction of the customer behavior (Ajzen & Fishbein, 1980). This relation is researched empirically in tourism and hospitality context (Ajzen & Driver, 1992; Buttle & Bok, 1996). Moreover, many studies have found this link in offline context too.
(Zeithaml, 2000). Boulding, Kalra, Staelin, and Zeithaml (1993)suggested that common dimensions of the behavior of a user is purchase/re-purchase intentions and purchase/re-purchase behavior. This study considers purchase intention as an important variable as during the visit by a user to a website, major challenge of the website is to make the visitor to be buyer. It is also important because revenue and profitability of a business is affected by purchase intentions. So, importance of purchase intentions as an outcome construct is clear and it is taken in this study as final dependent variable.

2.3 Technology Acceptance Model (TAM)
Davis (1989)proposed Technological Acceptance Model (TAM) which is regarded as a tool for analyzing consumer's information system for the new technology. Technological Acceptance Model comprises of two major constructs which are perceived ease of use and perceived usefulness. These constructs affects attitude and behavioral intentions of consumer when combined(Davis, Bagozzi, & Warshaw, 1989). TAM is regarded as “parsimonious model with high explanatory power of the variance in users’ behavioral intentions related to information system usage and adoption across a wide variety of contexts”(Taylor & Todd, 1995). Many researches used TAM to define the usage of technology (Adams, Nelson, & Todd, 1992; Davis, 1989; Fisk, Patricio, Lin, & Chang, 2011; Kuo & Yen, 2009; Taylor & Todd, 1995). TAM has been used to assess the probability of the success of the technology and the factors behind acceptance of the technology (Kuo & Yen, 2009). Davis (1989)explained the perceived ease of use as “the degree to which using the technology will be free of effort” and, perceived usefulness as “the level at which a person believes that the use of a technology will be beneficial for him”. These factors of the TAM are regarded as important factors to influence the technology usage (Adams et al., 1992; Lu, Zhou, & Wang, 2009). So, these factors of technology acceptance model will be considered in this study as independent variables.

2.4 Perceived flow
Flow is regarded as a useful tool to analyze consumer behavior with respect to technology (Hsu & Lu, 2004; Novak, Hoffman, & Yung, 2000). Perceived flow is an enjoyable condition of mind when a person uses a website as Chen, Wigand, and Nilan (1999) suggested that using a website may cause the development of flow. Researchers have found when a user of the website experiences flow, is attracted and it has positive impact on subsequent behavior and attitude of the user towards the website (Novak et al., 2000). Consequently, Mathwick and Rigdon (2004) proposed that flow has positive relation to the attitude towards website that leads to a user having intention of spending extra time on the website and revisit the website in future (Kabadayi & Gupta, 2005). Thus, perceived flow is included in this study as independent variable.

2.5Hypothesis Development
Analyzing the flow, Webster, Trevino, and Ryan (1993) concluded that perceived flow improves learning which affects the behavior and attitude of the user in online environment. Studies also found that positive flow will mitigate price consciousness, attract customers and affect the subsequent behaviors and attitudes positively (Novak et al., 2000). Specially, flow will positively affect the user attitude and behavior regarding the website (Mathwick & Rigdon, 2004). According to O'Cass and Carlson (2010), flow develops the positive feelings for the site which leads to the satisfaction. So as a result of above arguments from the researchers, hypothesis is drawn as,
H1: Perceived flow affects customer satisfaction positively.

Studies have confirmed that perceived ease of use affects satisfaction of a user from the website significantly (Lin, 2008). Davis et al. (1989)concluded that improving ease of use will result in improvement of the business performance. According to Ajzen and Fishbein (1980), when a person is of the opinion that a behavior will result positively if he will have a positive attitude towards reforming that behavior and specially, he will be more likely to develop satisfaction from the website when he will perceive it as a useful (Bhattacherjee, 2001). Researchers also found that perceived usefulness
significantly affects the satisfaction from a website (Arbaugh, 2000; Chiu, Lin, Sun, & Hsu, 2009; Lin, 2008). From the above discussion, hypotheses can be drawn as,

H2: Perceived ease of use affects the e-satisfaction positively
H3: Perceived usefulness affects the e-satisfaction positively

As satisfied customers are the goal of the every business (Lin & Ding, 2005), it is not the ultimate goal. Companies try to achieve it because it leads to e-loyalty and positive behavioral outcomes from the customer such as purchase intentions and then ultimately, leads to survival of the company (Gopalakrishna & Mummalaneni, 1993). Empirical studies have identified the positive relation between the satisfaction and behavioral intentions (Zeithaml et al., 1996). According to Ju Rebecca Yen and Gwinner (2003), satisfaction from a technology has positive influence on behavioral outcomes like intentions to revisit the site and repurchase from the website. Shankar, Smith, and Rangaswamy (2003) tried to investigate the outcome of satisfaction and found that satisfaction led to loyalty towards the business. Bai, Law, and Wen (2008) proposed that purchase intentions are positively influenced by the satisfaction of the consumers. Therefore, hypothesis from the above discussion can be drawn as,
H4: Customer satisfaction affects the purchase intentions positively.

Satisfaction is generated in response to customer and business interaction experience and thus, it is an emotional status (Westbrook, 1981). Shankar et al. (2003) tried to investigate the outcome of satisfaction and found that satisfaction led to loyalty towards the business. This link has been verified empirically by Chang et al. (2009), Anderson and Sullivan (1993), Anderson and Srinivasan (2003), Chiu et al. (2009). Therefore, following hypothesis can be drawn:
H5: E-satisfaction affects e-loyalty positively.

![Figure 1: Structural Model](image)

3. Methodology
Sample of this study was the online buyers from www.olx.com.pk because it is well advertised and well known in Pakistan. Respondents who had shopped at www.olx.com.pk in the previous 12 month were selected and were approached for the survey. A survey was designed for the respondents to find out how their online shopping behavior is shaped and whether they become loyal to an online store after a specific psychological situation or not. Data was collected by sending the questionnaire through social media. Data was collected from 466 respondents which was used to analyze the hypotheses through SmartPLS 3.

Measurement for variables of this research was done through adapting the questionnaire items from previous studies. Perceived Ease of Use and Perceived Usefulness measurement items were adapted from Koufaris (2002) which were measured through 3 and 4 items respectively. E-satisfaction was measured through adapting 5 items from Oliver (1999) and 6 items questionnaire was adapted from Zeithaml et al. (1996) and Gremler (1995) for e-loyalty. Purchase Intention of the customer were assessed by three items designed by Chen and Barnes (2007) and the Flow assessment way was consistent with Novak et al. (2000) having three items for measurement. These measures were then modified according to the need of
this study and 7 point Likert Scale was used for getting the response from respondents.

4. Results and Discussion
From 466 responses, 59% responses were from female side and 41% responses were from male side while 45.27% were married and 54.72% were single. Age group of 25 to 34 represented the biggest portion of respondents having 40% share. Group of more time consumption over internet was 2 to 5 hours showing 50.42% of the sample. Majority of the respondents had used internet from 1 to 3 years representing 74% share of the sample in our study.

Table 1: Demographic Analysis of the Respondents

| Variable            | Count (N) | Percentage |
|---------------------|-----------|------------|
| Gender              |           |            |
| Male                | 275       | 59.01 %    |
| Female              | 191       | 40.98 %    |
| Age                 |           |            |
| 18–24               | 142       | 30.47 %    |
| 25–34               | 187       | 40.12 %    |
| 35–44               | 73        | 15.66 %    |
| 45–54               | 46        | 9.87 %     |
| 55 and over         | 18        | 3.86 %     |
| Internet Experience |           |            |
| 1 to 3 year         | 345       | 74.03 %    |
| 3 to 5 year         | 121       | 25.96 %    |
| Over 5 year         | 2         | 0.42 %     |
| Daily Internet Use  |           |            |
| Less than two hours | 123       | 26.39 %    |
| 2 to 5 hours        | 235       | 50.42 %    |
| 5 to 7 hours        | 53        | 11.37 %    |
| More than 7 hours   | 55        | 11.80 %    |
| Marital status      |           |            |
| Married             | 211       | 45.27 %    |
| Single              | 255       | 54.72 %    |

Internal consistency of the variables was checked through Cronbach’s α. As presented in table 2, its value is acceptable as it surpassed the minimum acceptable value of 0.7 which is recommended by Nunnally (1978). Therefore, reliability of the constructs in this study is acceptable. Factor loading was used for the constructs in order to assess the item reliability (Shih, 2004). The results showed that factor loading of the measures surpassed the 0.5 acceptable limit which conformed the item reliability (Hair, Black, Babin, Anderson, & Tatham, 2006).

Table 2: Validity and Reliability Results

| Variables     | Factor Loadings | Cronbach’s α | Average Variance Extracted (AVE) |
|---------------|-----------------|--------------|----------------------------------|
| E-Loyalty     |                 | 0.940        | 0.737                            |
| L1            | 0.911           |              |                                  |
| L2            | 0.900           |              |                                  |
| L3            | 0.778           |              |                                  |
| L4            | 0.804           |              |                                  |
| L5            | 0.889           |              |                                  |
| L6            | 0.896           |              |                                  |
| E-Satisfaction|                 | 0.897        | 0.710                            |
| S1            | 0.865           |              |                                  |
| S2            | 0.852           |              |                                  |
In addition, average variance extracted, which is the measurement of convergent validity (Fornell & Larcker, 1981) has surpassed the 0.5 acceptable value limit as presented in Table 2. To assess the degree to which variables differ, discriminant validity was utilized. If the square root of average variance extracted of a construct is higher than its correlation with another variable, it is regarded as the construct has the discriminant validity. Inter-correlations among variables of this study are displayed in Table 3 which shows that discriminant validity is acceptable as correlation of the variables does not exceed the squared average variance explained.

Table 3: Fornell-Larcker Test

|                              | E-Loyalty | E-Satisfaction | Perceived Easy of use | Perceived Flow | Perceived usefulness | Purchase Intentions |
|------------------------------|-----------|----------------|-----------------------|----------------|---------------------|---------------------|
| E-Loyalty                    | 0.958     |                |                       |                |                     |                     |
| E-Satisfaction               | 0.859     | 0.947          |                       |                |                     |                     |
| Perceived Easy of use        | 0.920     | 0.843          | 0.963                 |                |                     |                     |
| Perceived Flow               | 0.874     | 0.935          | 0.867                 | 0.943          |                     |                     |
| Perceived usefulness         | 0.866     | 0.924          | 0.919                 | 0.863          | 0.936               |                     |
| Purchase Intentions          | 0.625     | 0.646          | 0.873                 | 0.877          | 0.787               | 0.888               |

Table 4 shows the predicting accuracy which is strong as the values are higher. Table 5 shows the results of the hypotheses that are gained using structural equation modeling. It represents the estimated coefficients which are significant at 95% confidence interval. As figure 2 shows, perceived ease of use, perceived usefulness and flow are positively linked with e-satisfaction thus affirining hypotheses H1 H2 and H3. Furthermore, path coefficients also show that e-satisfaction is also positively linked with the purchase intentions and e-loyalty. Thus, hypotheses H4 and H5 are also supported. All the relations are significant at 95% confidence level.
According to the results of the analysis, all hypotheses were supported. Results supported that flow can predict the e-satisfaction. This means H1 is supported. This confirms the result reported by Shin (2006) who suggested that flow is significantly and positively associated with the e-satisfaction. This implies that when users of the website experiences flow while shopping online, it is more likely that feelings of satisfaction will be generated for the shopping website. Results also supported the H2 and H3 which means perceived ease of use and perceived usefulness are significantly and positively linked with the e-satisfaction which is consistent with the studies of Lin (2008) and Arbaugh (2000) who proposed that perceived ease of use and perceived usefulness have significant positive influence on e-satisfaction.

Results of e-satisfaction on e-loyalty and purchase intention was also found to be positive and significant which supports H5 and H6. These results confirms the previous studies of Anderson and Srinivasan (2003) and Kim (2012) who have concluded that e-satisfaction is the key determinant of e-loyalty and purchase intentions for case of online shopping experience.

### 4. Implications

Theoretically, this study attempts to determine the role of flow along with technological acceptance model for online purchasing and e-loyalty. This research demonstrates that e-satisfaction is obtained when users of the website experience flow, perceive it easy and useful. E-satisfaction ultimately, leads to e-loyalty and purchase intentions which is the ultimate goal of the firm. Practically, this study propose to the e-commerce companies that they should focus on intrinsic
motivation of the consumer i.e. flow, which plays a significant role in website businesses (Hoffman & Novak, 1996). Focus should be to build and maintain flow state for the customers as the users of the website will enjoy more and spend more time on the website. Additionally, businesses should try to design the website which increases the ease of use and usefulness perceptions to assist the flow state of the consumer to form e-satisfaction. This in turn, will have higher probability of turning the user into the buyer and creating loyalty. This suggests that customer’s interaction with the website is useful and of key importance.

5. Conclusion and Limitations
Online businesses are striving for growth and sustainability in their businesses. There are many factors which affects the online businesses but psychological factors like perceived flow, perceived ease of use and perceived usefulness are the important factors. Conceptually, these factors lead to the satisfaction and then e-loyalty and purchase intentions are generated. This study verifies these relationships and provided some guidelines to the e-commerce firms that they should focus on the psychological factors of the customers while designing their website so that they should enjoy growth in the business and sustainability through e-loyalty.

Although this research has some useful implications for practitioners and academic researchers, it has some limitations. First, important variable of this study was flow which is multifaceted concept. But this study assesses it with only three items. Further research can be conducted using different dimensions of flow. Second, this study is conducted in Pakistan which is not in advance stage of online shopping. Results from the developed country will provide more insight. Finally, as consumer behavior is dynamic, longitudinal study will give more clear results.

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