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Does User Orientation Matter? The Development of Social Networking Sites Implementation Matrix – User Perspectives

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Abstract

This study goes one step further to clarify the relationships of Social Networking Sites (SNSs) to satisfaction and royalty. The study findings recognize a total of five Critical Success Factors (CSF) of Social Networking Sites (SNSs) for enterprises implementing Social Networking Sites (SNSs). They are satisfaction of customer requirements, identification of customer differentiation, quality interface design, establishment of customer recognition and provision of customized services. Among these factors, satisfaction of customer requirements and identification of customer differentiation are significantly related to user satisfaction and royalty. Quality interface design and establishment of customer recognition have significant relationships with satisfaction; and provision of customized services and royalty are significantly related. Finally, this study also develops a Social Networking Sites (SNSs) Implementation Matrix on the basis of different levels (high/low) of satisfaction and royalty. Focusing on high satisfaction and royalty, the success rate can be increased by the establishment of customer recognition; at low level of satisfaction and high level of royalty, satisfaction of customer requirements can promote a higher success rate; at low satisfaction and royalty, the establishment of customer recognition and provision of customized services can promote a higher success rate; and within the quadrant of high satisfaction and low royalty, a higher success rate can be enhanced by utilizing identification of customer differentiation and quality interface design.

Key Words: Social Networking Sites (SNSs); User Perspectives; Satisfaction; Royalty; Social Networking Sites (SNSs) Implementation Matrix.

Introduction

In the past two decades, Social Networking Sites (SNSs) have emerged in weighty and collaborative communication tools for allowing people to shared experiences and information (Chun & Lee, 2016). However, at present, SNSs (e.g., Facebook pages) allow individuals and organizations/companies to communicate with their targets (Bortree & Seltzer, 2009). Rahman (2004) The Internet's influence in creating e-services has been revolutionary for providers and their customers. The main concept involves the attracting, maintaining and strengthening of customer relations and the endeavor to enhance satisfaction and royalty (Kalakota and Robinson, 1999; Davids, 1999). Allen et al. (2001) also contended that personalized service is the key to E-commerce success today and in the future. After reviewing the current literature related to SNSs, the research of Gu et al. (2016) was found to affirm that the application of SNSs enables the enhancement of consumer/user satisfaction and royalty.

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There exists little research investigating the significant relationships between SNSs and user satisfaction, and the same for royalty. The result is that websites provide little understanding relating to how SNSs can be implemented, in order to increase user satisfaction and royalty. Consequently, this study combined qualitative and quantitative research approaches to, first, conduct focus group interviews with 38 Internet users. After that, the quantitative research method was used to investigate, in particular, the relationships between SNSs and satisfaction/ royalty. In turn, the implementation matrix of SNSs was developed and discussion on the research results was carried out in interviews with business professionals in practice. Finally, relevant actions were proposed to assist businesses in proceeding with plans for SNSs projects.

Literature Review

Definition of Social Networking Sites (SNSs)

To recognize how Social Networking Sites(SNSs) features and their impacts in engaging consumers, it is important to close the research gap (Chun & Lee,2016). SNSs have gained much popularity and subsequently as interactive communication tools (Boyd & Ellison, 2007). The primary concept underlying SNSs is the emphasis on differentiation of service in light of the varying needs of customers.

The user orientation system of SNSs was provided in divergent online services that SNSs are intended for building and keeping social networks (Rau et al., 2008). Using this approach, business providers are able to identify target groups through the use of intelligence databases and the interpersonal interconnectivity.

Concerning the types of Social Networking Sites(SNSs) services, after summarizing the concepts proposed by Weber, Fulk, and Monge (2016). SNSs as a debate refers to digital media that allow people interaction in the online services. In general, SNSs have different form such as Facebook focus on users to create directories of their social networks and to interactive on peer-to-peer, whereas the social media encompasses blogs (e.g., Twitter.com), photo sharing (e.g., Flickr.com), and music (e.g., Spotify), among others. The SNSs can be closely organized and extended from interpersonal level to organizational level.

Some literature offers that most companies do not only basically use SNSs (e.g., companies' Facebook pages) to carry information associated to their businesses directly, but also to link with their customers (Zhang, Benyoucef, & Zhao, 2015; Chun & Lee, 2016). Studies of SNSs often provide the potential benefits of SNSs for attractive and relating with their publics/consumers (e.g. Fletcer & Lee, 2012), but very few studies exist with regard to tangible effects of SNSs in the context of business management(e.g. Sung & Kim, 2014; Sung & Lee, 2015; Men &Tsai, 2015). With respect to SNSs research, this situation presents the main question, "What CSFs influence people to accept, follow, and promote a company's SNS?

Critical Success Factors of SNSs

We refer to Peppers et al. (1999) revealed in their research that implementing One-to-one Web-marketing. The uses of SNSs can be one-to-one or one-to-many as a part of group uses. This study requires undergoing the following four stages and relevant assessment tasks: 1.)Identification – knowing who the website customers are. This stage involves gift giveaways or secure interaction mechanisms to induce customers to register and gather information in order to set up customers' individual databases. 2.) Differentiation – understanding individual characteristics and values— including analysis of customer information, identification of customer contributions, and understanding of customer consumption in order to select worthy customers and provide appropriate services to satisfy their needs; 3.)Interaction — provision of different interactive mechanisms and channels targeted at customers for different characteristics — including the provision of mechanisms for enterprise-customer interaction (eg. Chat room) or other mechanisms for contacting customers; 4.) Customization — provision of complete tailor-made products and services to

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satisfy each customer's different and potential requirements --including the providing of personalized product information, the providing of customized service to save time for customers, and recommendations of customized products to individual customers.

Based on the abovementioned literature, this study compiles relevant studies (*Allen et al.*, 2001; *Clow and Cole*, 2004; *DeLone and McLean*, 2003; *Flor and Maglio*, 2004; *Jarach*, 2002; *Jelassi and Leenen*, 2003; *Jun and Cai*, 2001; *Liu and Arnett*, 2000; *Menon and Kahn*, 2002; *Peppers and Rogers*, 2000; *Peppers et al.*, 1999; *Teo and Yeong*, 2003; *Wells and Hess*, 2002; *Wixom and Watson*, 2001) to develop the preliminary assessment framework and scale of SNSs CSF. The majority of the abovementioned research begins from the perspective of enterprises, but the subjects of this study are users-oriented. Therefore, this study again summarizes the measurement items for SNSs CSF under users views produced through the focus group interviews carried out with users and uses these items as the basis for developing quantitative questionnaire.

User Satisfaction

The so-called satisfaction refers to the level of satisfaction a customer has for that particular service (Oliver, 1999; Khalifa and Liu, 2003), that is, when the feeling of a customer about a product or service surpasses his/her expectation, they will feel satisfied. If the feeling does not match the level previously expected, then the customer will form an unsatisfied attitude (Shankar et al., 2003). Szymanski and Hise (2000) pointed out that user satisfaction can be measured by convenience, merchandising, website design and financial security. After completing the literature review, this study integrated relevant research contents and constructs (Owen, 2004; DeLone and McLean, 2003; Cho and Park, 2001), coupled with the information gathered from the focus group interviews. Related constructs were then deleted or modified for the purpose of developing the measurement items for user satisfaction towards SNSs. Some studies used theory lens of the self-regulation framework to investigate the antecedents and the effects of satisfaction, others use the relationship marketing theory to investigate the effects of a set of operator-side factors on the cultivation of user satisfaction (Lin et al. 2014; Gu et al. 2016).

User Royalty

We have observed the growing of hundreds of social networking sites (SNSs) worldwide in recent years. Every day billions of people join in these relationship-development-oriented Internet platforms. The total Number of social media users worldwide from 2010 to 2020 was 1.91 billion in 2014, and the number will increase to 2.67 billion in 2018 (Statista 2016). The so-called customer royalty indicates that the customers do not leave that particular website because there are other better choices (Dick and Basu, 1994). To establish royalty in the Internet world, Hagel and Armstrong (1997) suggested development of a one-to-one relationship between the company and customer. Srinivasan et al.(2002) proved that the customized services of the website stimulate users to revisit that website and the better the website can increase the level of service customization, the higher the customer royalty (Grewal et al., 2003). As Frantz, and McDougall's (2004) research that (1) it did not cost less to serve loyal customers, (2) loyal customers do not pay higher prices for bundles of goods (in fact, the loyal customers consistently paid lower prices than newer customers), and (3) loyal customers who had both behavioral and attitudinal loyalty (as opposed to behavioral loyalty only), were word-of-mouth marketers for the firm.

In measuring royalty, many scholars mentioned that it is wrong to view it as sufficient to use only the repurchase rate to complete the measurement (Butcher et al., 2001; Bejou and Palmer, 1998; Dick and Basu, 1994). On the other hand, Dekimpe el al.(1997) divided royalty into: (1) Cognitive aspect—provision of useful products to customers; (2)Affective aspect—the feelings and commitments customers have on products; and (3)Conative aspect—the behavioral intentions of customer continuing the use of such products. In order to increase the accuracy of measurement, this study is based on the measurement method proposed by Dekimpe el al.(1997), with the addition of other relevant studies (for example, Srinivasan et *ISSN: 2306-9007*Hsieh (2017)

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al., 2002), and together with the focus group information, revisions/modifications were initiated to measure the website users' royalty.

The SNSs be surrounded with by the increasing acceptance and the significant business potential, SNS operators are excited to attract and retain users in the hopes of keeping their toehold in such an powerfully competitive market. Users' sustained use and loyalty is seemingly critical to the long-term benefit of SNS operators. The empirical findings in critical success factors of SNSs, we have clarified the significantly affect SNS users' loyalty factors such as perceived usefulness (Kang et al. 2009), sense of belonging (Lin et al. 2014), and arousal (Wang et al. 2015).

Research Design

Bryman (1992) indicated that the enhancement of the reliability in research conclusions can be accomplished by integrating the separate data in qualitative and quantitative investigations for the purpose of verifying the other one. Therefore, this study combines both qualitative and quantitative measurement methods, known as the Triangulation method, to proceed with the exploration (Burgess, 1993).

Literature Review and Pilot Interview

This study first reviewed the literature to outline the possible items for measuring SNSs services, satisfaction and royalty. However, to avoid the omission of other possible items, this study focused on 38 users who engaged in SNSs and carried out focus group interviews. The length of each interview was limited to 30 minutes to an hour. Each was facilitated by an open-ended questionnaire. This study cooperated with Taiwan's largest educational training center and filtered the interviewees for information on whether they have received the aforementioned six types of SNSs services where the Convenience Sampling method was used for sample selection.

After obtaining the willingness of interviewees to cooperate, this study divided the participants into groups. The number of interviewes in each group was limited to 6-7. After deducting those who were unable to make it to the interviews, the actual number of participants turned out to be 38. There were 26 males and 12 females whose ages fell between 19-35 years. The basis of grouping was to incorporate those users who have used the Internet for over four years, gotten online for more than six times weekly in average or surfed the Internet for over two hours each time as high Internet users. Other interviewees were grouped as low Internet users. The interviews were carried out in the conference room where there was no interference. The researchers first explained the research procedure to the participants, and constructed a relaxed interview atmosphere. Each interview lasted 100 minutes in average. This study carried out a total of six focus group interviews and after the interview, related courses and books were given as the rewards for participating in the interview. The questions asked in the interviews consisted of what functions SNSs should include, and involved the users' understandings of SNSs, royalty and satisfaction and their own usage experiences.

In regard to interview data analysis, two undergraduate students in the Business Administration Department of National Taiwan University of Science and Technology were employed to transcribe the entire interview content and present it in a word document. Subsequently, four postgraduate students who had trained with qualitative analysis method proceeded with text decomposition. An analysis structure of word-for-word transcript content was developed in accordance with the research framework and then line drawing and categorization were conducted, using characters or lines as the decomposition units, by the four researchers divided into groups of two. These were arranged into a memorandum and the major concepts were assigned with titles. After that, cross-checking between researchers was used as a means to increase the reliability of memorandums. By so doing, this study discovered additional CSF, such as satisfying users requirements, providing customized services, offering participation feedbacks and forming emotional attachments. After

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integrating the literature and arranging the in-depth interview data, this study arrived at 35 SNSs related questions. 13 questions related to satisfaction and 17 questions related to royalty.

Ouestionnaire Design

The main body of the questionnaire contained three sections. Based on what was offered by scholars Tull and Hawkins(1990), the first section of a questionnaire was designed to be the simplest to answer. Accordingly, the first part of this study's questionnaire concerned general information and covered questions about the information related to population statistical variables. With this approach, it was determined that interviewees would feel comfortable, which made it easier to proceed with questions in the following section. This section concerned the measurement related to the functions One-to-one Webmarketing should provide, and several open-ended questions were added to assist the researchers in identifying possibilities for question omission. The third section was the measurement of satisfaction and royalty.

In the questionnaire, five-point Likert scales were used to assess the attitude of the interviewees. In conducting the questionnaire investigation, it was unrealistic to hypothesize that all of the interviewees would respond to all questions. Therefore, "Don't know" was designed and assigned to each question as a selection choice for the interviewees; and, during the coding, the method proposed by Boyd et al. (1989) was adopted to treat "Don't know" as a separate category. This was to avoid the occurrence of a situation whereby interviewees might not know the answer to some question or were not in a position to answer the questions. In addition, this study designed a few reverse questions to enhance the accuracy of analysis results. After the questionnaire design was complete, the researchers asked six postgraduate students to exchange their opinions on the context, wording and page layout of the pre-test questionnaire and improvement was made to reduce the possibility of errors occurring during recording.

Pre-test

For the pre-test, one-to-one meetings were arranged with each of the participants to discuss all items in the questionnaire. The researchers invited two PhD students and four MA students, from the National Taiwan University, and four interviewees, from the earlier focus group interview stage, to read and fill out the questionnaire. Each of the discussions lasted from 30 minutes to one hour in duration. The pre-test results found that a few question items needed revision to ensure that the relevant questions were clearly conveyed, and those technical jargons that were not easily understood were also adjusted.

Sampling Design

The sample population of this study focuses on those users who have received SNSs services before. One hundred (100) copies of questionnaires were distributed in the National Taiwan University, 260 copies in Takming College, 108 copies in Yuan Ze University, 312 copies in Soochow University and 250 copies in Lunghwa University of Science and Technology and 270 in NOVA Information Concourse and the Sampling method adopted was Convenience Sampling method. In addition, this study gave away small gifts to increase the interviewees' willingness to fill in the questionnaires.

Although the research time, budget and other resources were restricted, the accuracy of sampling became a decisive factor in the sample size. Based on statistical calculations for the reliability level, 1,068 samples were necessarily extracted in order to limit the estimation error within 3% (Churchill, 1995). Accordingly, this study focused on those consumers who had used or received SNSs services and a total of 1,300 questionnaires were distributed. The total number of questionnaires returned was 1,155, yielding a return rate of 88.8%.

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Reliability and Validity

Reliability

Reaves (1992) indicated that small-scale test-retest experiments can be used to verify the reliability of research tools. After preparing the final questionnaire, those people who had previously participated in the pilot interview, were again asked to fill out the questionnaires. Their answers were compared with their previous answers and it was discovered by this study that they were similar. In addition to this, in the data analysis (See Table 2), the range of the Cronbach Alpha values of all the factors were from 0.72 to 0.84, which demonstrated that the questionnaire has a high level of reliability (Nunnally, 1967).

Validity

The development of the research measurement tools was complete based on the literature review and the information gained through the interviews with the 38 professionals. Although the determination of this content validity is relatively subjective, the research tools can still be regarded to have a high level of content validity. Scholars Madu et al. (1996)indicated that the item-total correlation of each factor to the total serves as the measurement index of criterion validity. The item-total correlation value of each item in this study is above 0.6 (See Table 2), which reveals that the results of the measurement scales match with the criterion validity standard. Moreover, in order to prove the criterion validity of CSF measurement, a positive correlation between the CSF measurement results and consumer satisfaction and royalty must be shown. The data obtained from this study indicates that, of the five CSF, four have a significant relationship with satisfaction (See Table 3) and three have a significant relationship with royalty (See Table 4). This result demonstrates that the research tools have high criterion validity.

The factor analysis was utilized to measure and verify the construct validity of research tools and this is an approach that is used extensively by researchers (Churchill et al., 1974; Allison, 1978; Noerager, 1979). The Kaiser-Meyer-Olkin (KMO) index of this study is 0.906 and the Bartlett's test is significant (Approx. Chi-Square =10035.21, Sig = 0.00), which demonstrates that the measurement results of this study have obvious construct validity.

Validating Interview

The researchers first sent the research results to ten business professionals engaged in SNSs and then conducted face-to-face or telephone interviews with them. The purpose was to discuss the research conclusions and understand whether this study was helpful to them in their execution of SNSs. Simultaneously they were also asked to explain the research conclusions and this in turn could help the researchers to clarify the research findings. The interviews with each of the interviewees lasted from 20 to 40 minutes.

Data Analysis

Data Collection and Analysis

One thousand and three hundred (1,300) copies of questionnaires were collected from National Taiwan University, Takming College, Yuan Ze University, Soochow University, Lunghwa University of Science and Technology, and NOVA Information Concourse. Each copy of the returned questionnaires was examined carefully for error identification. During this process, 145 questionnaires were filtered from piles of returned questionnaires. The remaining 1,155 questionnaires were usable. This study compiles the basic information and related data of interviewees as shown in Table 1.

Table 1. Interviewee Profile.

Sea	x Education Lev	el	Average Ti	me	Service Best Abl	e to	Service Most Able to		
			Spent on Browsing Websites Da	5	Increase Satisfac	tion	Increase Royal	ty	
M	509 Elementary	2	Less Than 1	153	SNSs advertising	8.4%	SNSs advertising	5.2%	
F	646 School or		Hr.	666	SNSs cross-selling/	21.6%	SNSs cross-selling/	19.3%	
	Lower Junior High School Senior High School (Vocational College) Undergraduate		1 ~ 3 Hrs 4 ~ 6 Hrs 7 ~ 9 Hrs 10 ~ 12 Hrs More than 12 Hrs	240591621	upselling SNSs information SNSs service SNSs community SNSs experience	33.2% 6.6%	upselling SNSs information SNSs service SNSs community SNSs experience	17.1% 38.0% 7.9% 12.6%	
	MA or Higher								

The majority of the sampling undertaken in this study involved students; their educational level was mainly university undergraduate. This fact makes it possible that the study's results are more applicable to student groupings. Further, the average time spent on browsing the websites by the sample was 1-3 hours, which occupied 58% of the total sample time. Concerning the services that can increase user satisfaction and royalty, this study found that the interviewees, one after another, chose SNSs service. In the next section of this study, the factor analysis is utilized to extract the CSF of SNSs; the analysis of the factors for user satisfaction and royalty is carried out for determining the influence factors that can effectively enhance user satisfaction royalty.

Factor Analysis

This study adopts the principal components factoring method to extract common factors. Common factors selected have an eigen-value greater than 1.0. The varimax solution is then adopted to perform an orthogonal rotation process. Each factor item with an item-total correlation of greater than 0.6, and with a factor loading above 0.6, was retained, after the factor analysis of raw data was carried out.

Table 2 displays the results of the study's factor analysis. A total of five factors, with an accumulative total variance of 65.46 %, were selected. The first factor is satisfaction of customer requirements which explains 35.56% of the total variance; the second factor is identification of customer differentiation; the third factor is quality interface design; the fourth factor is establishment of customer recognition; and the fifth factor is provision of customized services.

Next, this study attempts to verify whether CSF will influence user satisfaction as well as royalty. This study considers the five success factors as independent variables and the measurements of satisfaction and royalty as dependent variables. The scores of factors are calculated and standardized to make the mean score 0 and the standardized deviation 1.

The 1,155 samples are divided into two groups which are named the upper and lower half groups. Then a t-test is used to examine whether or not a significant difference exists between the mean scores of the two groups in satisfaction and royalty. Table 3 and 4 reveal that, in the case of each factor relative to satisfaction and royalty, the mean score of the upper-half group is greater than the mean score of the lower-half group.

Table 2. Extraction of Factors.

	Table 2. Extraction of F	uctors.			Correcte	
Factor	Activities	Factor loading			Total	Cumulati ve percent
1.Satisfaction of	Provide services for satisfying					
Customer	customer requirements in a timely					
Requirements	manner.	0.77			0.65	
	Create a flawless transaction security	0.76			0.70	
	mechanism.	0.75	8.691	0.84	0.68	35.56
	Provide functions for addressing	0.69			0.64	
	customer complaints.	0.64			0.65	
	Have mechanisms for guaranteeing information security.					
2.Identification of	Provide services that are directed at					
Customer	customer differences.	0.75	2.51	0.80	0.72	52.94
Differentiation	Proactively analyze customer information.	0.68	2.31	0.60	0.63	32.94
3.Quality	Provide links to related websites.					
Interface Design	Provide links to relevant	0.75			0.62	
	communities.	0.64	1.62	0.72	0.70	57.71
	Provide user interfaces that meet needs.	0.62			0.66	
4.Establishment	Allow customers to sense that they				. /	
of Customer	belong to the focus of the website.	0.81			0.77	1-4-
Recognition	Enable the customers to realize that the website was designed for	0.81	1.42	0.80	0.77 0.77	61.90
5.Provision of	themselves. Recommend dedicated products				4 1/	240
Customized	Recommend dedicated products according to individual customer's				- The second	P#/
Services	interests.					
Services		0.68			0.62	
	Provide dedicated personal website space.	0.66			0.62	
	Provide mechanisms for enterprise-	0.64	1.21	0.73	0.66	65.46
	customer interaction (e.g. chat				0.63	
	room).	0.,,			0.05	
	Provide gifts to induce customers to					
	register proactively.					

Relationships between each Factor and Satisfaction

In the aspect of satisfaction, four factors -- satisfaction of customer requirements, identification of customer differentiation, quality interface design, and establishment of customer recognition -- have significant differences below a 5% degree (See Table 3).

As Peppers et al. (1999) pointed out, satisfying customers' expectations is the foundation of One-to-one Web-marketing. Khalifa and Liu (2003) suggest that satisfaction is determined by the intensity and direction of the gap between expectations and perceived performance. Cho and Park (2001) also indicated that satisfying customers' expectations is the principle factor that influences user satisfaction. Interviewee

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15 gave the opinion that: "SNSs should offer or reward services within a very short period of time... then our satisfaction can be increased."

Chun and Lee (2016) expressed that the identification of customers' information is the foundation of SNSs. Interviewee 14 said: "I am quite satisfied with one of the functions. The CIA web intelligence agent proactively sends me emails containing the keywords I have been set up with. He provides the service that targets customer differences."

According to Nisar and Whitehead (2016), the enhancement of the quality in interface design can increase user satisfaction. Pavlou (2003) also provides that ease to use is likely to influence consumer behavioral intentions. Interviewee 27 pointed out: "I teach part time at a school. The course discussion forum I use now doesn't have an artistic layout effect that is as good as the school's, but the maintenance interface is much more convenient than the school's. It makes it easier for students to carry out online discussions. I like this website very much."

On the other hand, DeLone and McLean (2003) indicated that when users establish a sense of recognition about the website, it often means that they are satisfied with the services provided by the website. Interviewee 37 also mentioned: "I have joined an online community for graduate school exam preparation. I post a lot of articles there and have met several friends this way. Occasionally, some people would post a question to ask for my opinions and of course I would participate in this. I am very satisfied and I use it often."

Nevertheless, as for factor 5, provision of customized services, the result is not significant. This may be due to the situation that users have a comparatively low recognition regarding the provision of customized services. For example, interviewee 23 mentioned that: "I often feel that a special recommendation is not really a special recommendation. So I feel that this is just acceptable. Besides, the computer just selects people of the same group and gives them the same things. This is not really customized." This is as what Hung et al. (2016) suggested -- that the so-called SNSs aims to provide services according to one specific consumer, not merely a large quantity of customized services.

Table 3. A Comparison of Success Factors and Non-success Factors through Satisfaction

Satisfaction	Lower	Upper	Mean	Significance
Saustaction	Half	Half	Difference	Level
1.Satisfaction of Customer Requirements	3.98	4.32	0.34	0.00**
2.Identification of Customer Differentiation	4.14	4.22	0.07	0.05*
3. Quality Interface Design	4.12	4.23	0.11	0.04*
4.Establishment of Customer Recognition	4.10	4.24	0.14	0.04*
5.Provision of Customized Services	4.16	4.19	0.02	0.14

Relationships between each Factor and Royalty

In determining the influence of SNSs CSF on user royalty, this study finds that three of the five factors -- satisfaction of customer requirements, identification of customer differentiation and provision of customized services -- have significant differences (See Table 4).

As Gu et al. (2016) indicated, when a SNSs can satisfy customers' expectations, the customers' royalty related to the website can be increased. Interviewee 37: "Certainly, I visit the website during the period I prepare for the exam, because it has the things I want. I think I will get back online when I pass the exam. This is to give feedback to the beginning students but my participation will not be as frequent as it is now."

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The better a website can identify user information, the higher it can satisfy user expectations. The user royalty related to the website will also be higher (Dekimpe et al., 1997). Interviewee 23 also stated: "I am used to buying the books published by Commonwealth Publishing Group at its website, although the books are not necessarily cheaper there. I will be informed proactively of my bonus award points, and I will receive emails informing me that books I want to read have been published. So I mostly buy Commonwealth Publishing Group's books online."

Moreover, Grewal et al (2003) stated that the provision of customized services is the most effective way to increase a user royalty. Interviewee 23 pointed out: "I can discuss my questions with the teachers (from the educational training center) on the community message board, and the teachers reply to my questions quickly. I think this kind of interaction is a leading factor for achieving excellent learning. This is also the reason for me to continue using it."

Nevertheless, factor 3, quality interface design and factor 4, establishment of customer recognition, appear insignificant. Srinivasan et al. (2002) also reported that since the websites are replaceable, one for another, the royalty cannot be increased if the services meeting customers' requirements are not provided. Perhaps this is the reason for such insignificance. For example, Interviewee 34 mentioned: "Yahoo has a very good interface design. PChome's is also good. However, they almost the same. It doesn't matter which one I use."

The possible reasons for the insignificance of factor 4 -- establishment of customer recognition -- lie in the extremely high number of substitutions available for websites, together with the large number of changes in user requirements. Therefore, even if the sense of recognition is very high, it is uncommon for customers to repeat their use when the websites cannot satisfy customer requirements. That is, it will not lead to a high royalty. Interviewee 10 pointed out: "Taking my own web community as an example, I have a sense of recognition when using Yahoo, but the features provided by Yahoo are not as good as those of Taconet. That's why I move my community to Taconet." This is perhaps the possible reason for insignificant establishment of customer recognition.

In addition, this study summaries four reasons that may have caused the above factors to have insignificant relationships with satisfaction and royalty. First, the importance of these factors to the success of SNSs may be comparatively low. Second, they may be less important when compared with other factors. Third, it may be possible that the related questions used to describe these factors are not refined enough. If this is true, it is impossible to investigate into these factors in depth, resulting in the impossibility to demonstrate the roles they play in the implementation of SNSs. Fourth, the existence of research errors makes it impossible to show their significance.

Table 4. A Comparison of Success Factors and Non-success Factors through Royalty.

Povolty		Lower	Upper	Mean	Significance
Royalty		Half	Half	Difference	Level
1.Satisfaction of customer re-	quirements	3.48	3.57	0.06	0.02*
2.Identification of customer of	differentiation	3.41	3.53	0.13	0.03*
3.Quality interface design		3.43	3.51	0.06	0.09
4.Establishment of customer	recognition	3.40	3.52	0.12	0.14
5.Provision of customized se	-	3.44	3.50	0.06	0.05*

^{*} Significant at the 95% level

Correlation Analysis between the Measurement Constructs of Each Factor and Satisfaction and Loyalty Levels

^{**} Significant at the 99% level

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This study conducts a correlation analysis of the five factors and satisfaction and loyalty levels to understand the correlation between each factor and satisfaction and loyalty levels. This study organizes the correlation coefficients of the detailed constructs of each factor and the satisfaction and loyalty levels as shown in Tables 5 and 6.

Table 5. Correlation Coefficients of Each Factor and Consumer Satisfaction.

		Satisfaction	Identification	Quality	Establishment	Provision	Will	
			of Customer	- •		of	increase	
Construct	Item		Differentiation		Recognition	Customized	Overall	
		1		0	υ	Services	Customer	
							Satisfaction	
	Needs to be easy to	0.33**	0.04**	0.12**	0.05	0.12**		
	use	0.55***	0.04***	0.12	0.03	0.12	0.39**	
	Needs to provide a							
	user-friendly	0.17**	0.18**	0.18**	0.13**	0.08**	0.37**	
Convenience-	interface							
of-use	Allows the user to be							
	satisfied with the	0.25**	0.00**	Λ 11**	0.10**	0.06	0.40**	
	website's	0.25**	0.08**	0.11**	0.10**	0.06	0.48**	
	convenience-of-use							
	Needs to provide							
	comprehensive	0.25**	0.02*	0.10**	0.06*	0.13**	0.37**	
	product information							
Product	Will increase the time							
Information	customers spend						1	
A	searching for	0.09**	0.04	0.06**	0.11**	0.08**	0.08**	
-54	consumer						8	
~ 6	information					193		
	Rapid after-sales	0.26**	0.03	0.04	0.06*	0.06*	0.42**	
8	service	E E	0.03	0.04	0.00	0.00	0.42	
After-sales	Friendly after-sales	0.12**	0.003	0.005	0.06	0.06	0.22**	
Service	service		0.002	0.002	0.00	0.00	0.22	
	Free after-sales	0.21**	0.02	0.004	0.04	0.08**	0.40**	
	service		***			0.00		
	Can reduce the time		0.054	0.00444	0.40-0-1-1-	0.054	0.4500	
XX7 1	customers spend on	0.15**	0.06*	0.09**	0.12**	0.07*	0.47**	
Website	consuming							
Design	Can assist customers		0.12**	0.12**	0.00**	0.10**	0.46**	
	in simplifying the	0.17**	0.12**	0.13**	0.09**	0.10**	0.46**	
	consumer process							
	Needs to develop		0.01	0.07*	0.09**	0.13**	0.40**	
	flawless website	0.31**	0.01	0.07*	0.09***	0.13	0.40**	
Security	transaction security Needs to provide							
	Needs to provide flawless transaction		0.01	0.05*	0.04	0.11**	0.19**	
	mechanisms	0.10	0.01	0.05	0.04	0.11	0.19	
	Will increase overall							
	customer satisfaction	0.23**	0.07*	0.07**	0.10**	0.01	1.00	
	"t at the OFO/ 11							

^{*} Significant at the 95% level

^{**} Significant at the 99% level

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This study discovers that the results show correlation between Factor 1, satisfaction of customer requirements, and all of the satisfaction constructs; and that Factor 2, identification of customer differentiation is correlated to convenience-of-use, product information and website design. Factor 3, quality interface design is correlated to convenience-of-use, product information, website design and security. The results show correlation between Factor 4, establishment of customer recognition, and Factor 5, provision of customized services, with convenience-of-use, product information, after-sales service, website design, and security. At the same time, the study also reveals that in the relationship between the five factors and the loyalty level constructs, the majority all reveal correlating circumstances.

The results of this study clearly demonstrate that a certain complex correlation exists between the CSF of SNSs and satisfaction and loyalty levels. Prior research revealed that SNSs certainly has an influence on satisfaction and loyalty levels. This study extends these findings by addressing the influence of SNSs CSF on satisfaction and loyalty levels and by identifying the potential correlation between them and the satisfaction and loyalty constructs. Accordingly, an investigation into how SNSs CSF influence satisfaction and loyalty constructs is a topic worthy of in-depth investigation by subsequent research.

	Table 6. Correlation						
		of Customer	Identification of Customer	Quality Interface	Establishment of Customer	of	Will increase
Construct	Îtem	Requirements	Differentiation	Design	Recognition	Customized Services	Overall Customer Loyalty Levels
9	Customers can easily switch to other websites Will not influence	0.02	0.04*	0.08*	0.04	0.02	0.003*
Internet Loyalty Level	customer (website) switching behavior When you need to make a	0.02	0.02	0.07**	0.07*	0.07*	0.19**
	purchase, this website is your first choice	0.10**	0.08*	0.02	0.14**	0.10**	0.22**
	This website is the best choice for customers	0.05	0.10**	0.04*	0.14**	0.04	0.23**
	You appreciate having a SNSs	0.16**	0.17**	0.09**	0.11**	0.08*	0.19**
	You very rarely look at this website's competitor's advertisements	0.05**	0.04	0.02	0.01	0.00	0.08**
Search Behavior	You will tell your friends about your consumer experiences with this website	0.15**	0.07*	0.10**	0.07*	0.12**	0.17**
	Prior to making a purchase you will search for additional information on other websites	0.19**	0.01	0.09**	0.06*	0.03	0.02*

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	You will introduce your friends to Websites which	0.13**	0.13**	0.07**	0.06*	0.10*	0.31**
Accolades	provide this service If someone asks, you will introduce this website	0.12**	0.08**	0.08**	0.07*	0.12**	0.23**
	You wouldn't encourage others to use this website	0.13**	0.07*	0.04	0.01	0.08**	0.06**
	You wouldn't mention this website to others	0.14**	0.05**	0.04	0.04	0.07**	0.02*
	You will go to websites with preferential product pricing to consume	0.27**	0.05**	0.09**	0.03	0.09*	0.01**
	When prices rise, you will still consume on this website	0.10**	0.01	0.03	0.07*	0.07*	0.29**
Price	You would be willing to pay a higher price on this website for things that other websites also provide	0.11**	0.02	0.02	0.05	0.003	0.38**
200	You will cease your purchasing activities when the prices on other websites are reduced	0.05*	0.04	0.07*	0.05*	0.02	0.11**
	Overall, you will remain loyal to this website	0.09*	0.08*	0.03	0.08	0.06*	1.00

^{*} Significant at the 95% level

SNSs implementation Matrix

This study posits satisfaction and loyalty level as the X axis (satisfaction) and Y axis (loyalty level) respectively and divides users into four categories to constitute a four quadrant matrix graph. After this, the previously stated critical success factors are re-coordinated to conduct a Success -Rate test for the upper and lower groups of factors directed at the four quadrants (See Table 7). Finally, those test results that are significant are re-entered into the matrix graph to produce the SNSs implementation matrix (As shown in Graph 1).

Table 7. SNSs CSF Success Rate Test.

Succe	First Quadrant						Second Quadrant				Third Quadrant				Fourth Quadrant					
ss Rate (%)	Fa cto r 1	Fa cto r 2	Fa cto r 3	Fa cto r 4	Fa cto r 5	Fa cto r 1	Fac tor2	Fac tor3	Fac tor4	Fac tor5	Fa cto r 1	Fa cto r 2	Fac tor3	Fac tor4	Fac tor 5	Fa cto r 1	Fac tor 2	Fac tor3	Fa cto r 4	Fa cto r 5
Upper	63.	68.	68.	72.	59.	50	47.3	48.6	45.9	45.9		45.	42.6	49.5	50.4	42.	54.5	50.4	45.	44.
Group	51	92	92	97	46	50	0	5	5	5		9	2	9	0	32	7	5	71	49
Lower	54.	48.	48.	44.	58.	37.	40.5	39.1	41.8	41.8	40.	37.	40.7	33.8	33.0	34.	41.2	41.2	39.	40.
Group	05	65	65	59	11	84	4	9	9	9	16	5	8	1	0	49	5	2	18	41
Differ	9.4	20.	20.	28.	1.3	12.	676	0.46	1.00	1.00	3.0	0.4	1.04	15.7	17.4	7.8	13.3	9.23	6.5	4.0
ence	6	27	27	38	5	16	6.76	9.46	4.06	4.06	8	8.4	1.94	8	0	3	2	9.23	3	8
Signifi cance Level	0.1 6	0.2 8	0.0 7	0.0 1**	0.0 6	0.0 1**	0.20	0.18	0.19	0.15	0.1 9	0.2 7	0.06	0.00	0.00 2**	0.0 8	0.00 1**	0.04	0.2 1	0.0 7

^{*} Significant at the 95% level

^{**} Significant at the 99% level

^{**} Significant at the 99% level

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SNSs Implementation Matrix

The SNSs implementation matrix is divided into a total of four quadrants in accordance with user satisfaction and loyalty level (See Graph 1). In the graphic illustration, it can be observed that for consumers of different satisfaction and loyalty levels, the success rates of SNSs are significantly different and that the influence factors also differ.

Quadrant 1: High Satisfaction and Loyalty Levels

The users in this quadrant are of the opinion that establishing customer identification is the most important critical success factor. According to interviewee 19: "I have already participated as a member of Vegeville for two years" and "my satisfaction is high because it makes me feel like I am a member of the village (this Website uses villager to refer to its members). And I am unable to find another vegetarian website as good as this one".

Quadrant 2: Low Satisfaction and High Loyalty Levels

The users in this quadrant consider satisfaction of customer requirements the most important critical success factor. For instance, interviewee 15 pointed out that "The reason why I continue to use ezfly's services, today, is because other companies aren't that good". "It (indicating ezfly) will automatically send me accumulated bonuses, however, their isn't really anyway to exchange them for anything" and "to the contrary, it gives one the impression that it is just another way of selling something." "And if it is very easy to refund a ticket, the processing charges aren't too expensive and if rooms can be reserved on the same day then my satisfaction will increase."

Quadrant 3: Low Satisfaction and Loyalty Levels

The users in this quadrant are of the opinion that establishment of customer recognition and. provision of customized services are the most important critical success factors. Clow and Cole (2004) show that Success in retailing is partly due to understanding the value of customers and how to leverage customer relationships to yield the maximum return. Interviewee 32 stated: "After joining an economics teachers' learning community for a short while", "I didn't feel like participating again. Apart from downloading certain handouts, I didn't really have any motivation to visit it again" and "I feel that E-communities ought to be like a family and allow for mutual concern and the sharing of messages". Luo and Seyedian (2004) show that customers' perceived contextual marketing and customer-oriented strategies are associated with site satisfaction and loyalty. Rahman (2004) also shows that direct contact of the customer and the ser vice provider is required, as the recipient is an object that has to be in contact with the service provider, so that service can be performed on it. Interviewee 01 expressed that "PChome provides an E-magazine service but after a while I would get rid of it without even reading it because I felt that these E-magazines aren't really One-to-one but are many-to-many and that everyone is reading the same one". "I think that its category selection can be a bit more detailed and in this way we would all receive E-reports that have greater variety."

Quadrant 4: High Satisfaction and Low Loyalty Levels

Users in this quadrant think that satisfaction of customer requirements and quality interface design are the most important critical success factors. Interviewee 20 pointed out: "I go on a group tour once every year" and Lionart's website is pretty good" and "although it dispatches member reports, it is still unable to send me the travel information that I want in accordance with my needs". Interviewee 22 also stated: "I feel that the trip search interface is most the most important factor in determining whether a website is good or bad", "but I also hope that these websites are capable of two-way connections that offer greater convenience when we are searching for a trip".

Based on the SNSs implementation matrix, enterprises can undertake to increase user satisfaction and loyalty levels for the purpose of increasing the rate of success of enterprise implementation of SNSs. Also,

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this study has previously proven that satisfaction of customer requirements, identification of customer differentiation, quality interface design, and establishment of customer recognition can increase user satisfaction. Satisfaction of customer requirements, identification of customer differentiation and provision of customized services can increase user loyalty levels. Accordingly, by providing the five CSF in coordination with the application of the SNSs implementation matrix, it is possible for enterprises to increase the success rate of developing SNSs.

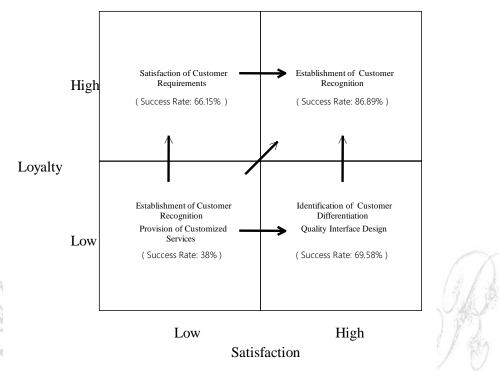


Figure 1 SNSs Implementation Matrix

Conclusions and Suggestions

Conclusions

Correlations of SNSs CSF and Satisfaction and Royalty

The primary contribution of this study is the incorporation of User Perspectives to determine the five factors for measuring the implementation of SNSs. This study discovers the measurement factors for SNSs for User Perspectives to consist of satisfaction of customer requirements, identification of customer differentiation, quality interface design, establishment of customer recognition, and provision of customized services The study demonstrates that four of the five measurement factors are significantly correlated with SNSs satisfaction, and three are correlated with royalty.

With respect to the satisfaction, websites can utilize convenient web interfacing, for identifying customers' requirements, to provide services. In addition, use of the websites can further increase the customer requirement satisfaction and user recognition of websites to enhance the user satisfaction. Regarding royalty, the websites can provide customized services by identifying customers' information and in turn increase customer requirement satisfaction to expand royalty for users.

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Therefore, this study suggests that when websites are implementing SNSs, they can use these CSF as the entry point. They can increase the user satisfaction and royalty of the websites by taking into account the factors provided in this study. This in turn can assist the websites to adopt appropriate actions during implementation and effectively monitor and execute the introduction of SNSs.

SNSs Matrix

The major contribution of this study is to start with the views of users to investigate into the five CSF --satisfaction of customer requirements, identification of customer differentiation, quality interface design, establishment of customer recognition, and provision of customized services -- of SNSs implementation. This study further proposes a SNSs implementation matrix which allows the websites to provide appropriate success factors in the future, aiming at the levels (high/low) of user satisfaction and royalty in order to enhance the success rate of SNSs.

Based on the high and low levels of satisfaction and royalty, this study classifies the samples into four categories. Users in quadrant one (high satisfaction, high royalty) consider the establishment of customer recognition the most important critical success factor; users in quadrant two (low satisfaction, high royalty) consider the satisfaction of customer requirements the most important CSF; users in quadrant three (low satisfaction, low royalty) consider the establishment of customer recognition, and provision of customized services to be the most important CSF; users in quadrant four (high satisfaction, low royalty) consider identification of customer differentiation and quality interface design to be the most important CSF.

Managerial Implications

Researchers in this study sent results to business professionals currently engaging in the execution of SNSs and inquired of them their opinions and the possible directions and implications for management. Finally, a total of ten business professionals met together for discussions concerning the following:

The success of SNSs is based on the following:

Identification of Customer Differentiation and Satisfaction of Requirements Are the Foundations of Success.

Significant is the ability to identify customer differentiation, and to provide different products and services for different customers, in order to satisfy their requirements. Similar to what business professional 3 mentioned: The development of SNSs begins with an understanding of customers. Necessary is the collection of information through interactions with customers, along with differentiation among customers' requirements and recommending of appropriate products and services to consumers.

These areas are the fundamental elements for successful implementation of SNSs. At the same time, enterprises must continue to inspect and create service requirements and keep on developing those products and services to meet the requirements. For example, business professional 7 said: "The Web environment is much more complex than the tangible environment. In this world, a lot of requirements are created; thus website management requires endless creative ideas."

Customer Recognition is an Important Measure

This study discovers that for users in quadrant one (high satisfaction, high royalty) and users in quadrant three (low satisfaction, low royalty), recognition is the most important SNSs CSF. According to business professional 1: "Recognition is an internal motivation, which encourages users to willingly and continuously be online." However, professional 7 also expressed that: "In practice, it is not easy to

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measure the sense of recognition. In the present, the way we create user recognition is to try our best to give them the impression that we are a big family. Once they join us, we give them many small gifts. In addition to the customized web address or regular emailing of membership letters as general websites have, we also give them stickers and create an environment where our community's unique common language is used."

Research Limitations

Although this study makes the best effort to increase the completeness and reliability of the research process, research limitations can still occur. Just as Stern (1979) suggested, a person's memory is distorted until it matches with a perspective he/she is more comfortable with in the present. This suggests that when an interviewee is requested to convey information related to his/her involvement in SNSs, it is possible that the collected information be distorted because of some limitation, or perhaps some incidences have recently transpired or have been more important to the interviewee (Emory, 1980).

In this study, SNSs projects may be recognized as having high satisfaction or royalty due to the fact that users may have had a very good experience in the usage process. That is, in the process, it may be that because the interviewee has already had a good or bad experience, research results are over-or underrated. In light of this, this study, when conducting the test, incorporated "average" into the lower-half group in an effort to reduce any potential error that may result.

In addition, another source of errors in this study concerns the accuracy of the interviewees' answers. Assael and Keon (1992) revealed this type of error is a response error that involves issues of memory and reliability. This study employs many methods, such as adopting pre-testing and designing clear and easily answered page layout for the questionnaire, in order to ensure the accuracy of the study. Because not all sources of errors can be eliminated, this produces another limitation of this study.

Future Research Directions

This study focuses on users who have received the six SNSs services before for investigation. . Subsequent researchers can aim at other possible marketing service types to conduct research and engage in a comprehensive comparison and verification. This includes the comparison of possible CSF for each of the six SNSs services, and the influence of these CSF on satisfaction and royalty, in order to understand the differentiation of various SNSs service types. Subsequently, a scale can be developed to measure the success or failure of that one specific marketing method aiming at the degree of development in that SNSs service. That is, enterprises can measure the success rate of a SNSs service by using this scale in inspections.

In addition, this study discovers the existence of a complex relationship between the Critical Success Factors and the measurement of SNSs service satisfaction and royalty constructs; and this relationship awaits further exploration by subsequent research. This study also finds that customer recognition is an important measure for SNSs. Future research can develop a scale focusing on recognition and examine the concrete methods to increase recognition.

Finally, future research can acquire an understanding of the possible CSF for enterprises developing SNSs services from the enterprise view and develop the matrix of satisfaction and royalty and compare the differentiation between User Perspectives and enterprise views. These can serve as references for future academic research and for enterprises in their decision related to the introduction of SNSs services.

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