The Impact of Social Media Towards Brand Equity: An Empirical Study of Mall X

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ABSTRACT

This research is aimed to analyze the impact of social media use and functionalities towards brand equity with an empirical study of Mall X. Mall X's Instagram is being analyzed throughout this research. Furthermore, this research attempts to examine the impact of social media use and functionalities on brand equity elements simultaneously and individually.

Data processing methods used in this research are validity and reliability test and classical assumption tests, while simple and multiple linear regressions are used as data analysis methods. Online questionnaire is used to collect data of 111 respondents. These research findings show that identity and conversation use and functionalities have significant impact on brand awareness simultaneously and individually, sharing and presence use and functionalities have significant impact on brand associations simultaneously and individually, reputation use and functionality has significant impact on perceived quality, and relationship use and functionality has significant impact on brand loyalty

Keywords: Social Media, Brand Awareness, Brand Association, Perceived Quality, Brand Loyalty

ABSTRAK

Penelitian ini bertujuan untuk menganalisa pengaruh penggunaan dan fungsi jejaring sosial terhadap brand equity dengan studi empiris Mal X. Instagram Mal X akan dianalisa melalui penelitian ini. Selain itu, penelitian ini juga menguji pengaruh dari penggunaan dan fungsi jejaring sosial terhadap elemen dari brand equity secara simultan dan individual.

Metode pengolahan data yang digunakan dalam penelitian ini adalah validitas dan reliabilitas serta uji asumsi klasik, sedangkan regresi linear sederhana dan berganda digunakan sebagai metode analisa data. Kuesioner online digunakan untuk mengumpulkan data dari 111 responden. Hasil penelitian ini menunjukan bahwa penggunaan dan fungsi identity dan conversation memiliki pengaruh yang signifikan terhadap brand awareness secara simultan dan individual, penggunaan dan fungsi sharing dan presence memiliki pengaruh yang signifikan terhadap brand association secara simultan dan individual, penggunaan dan fungsi reputation memiliki pengaruh yang signifikan terhadap perceived quality, dan penggunaan dan fungsi relationship memiliki pengaruh yang signifikan terhadap brand loyalty.

Kata Kunci: Jejaring Sosial, Brand Awareness, Brand Association, Perceived Quality, Brand Loyalty

INTRODUCTION

The world back then is different from the world right now. Globalization becomes the most disruptive phenomenon in modern history, not to mention in business world. Globalization is like two sides of a coin; it brings opportunities and challenges for businesses. In this vast changing world, information has been integrated; it makes international business is possible and easier. However, this big potential is also corresponded with several challenges.

While businesses represent rapid growth and modernization, companies are vulnerable to unstable conditions: new players appear and competition becomes inevitable. In the opportunity side, there is a transition from traditional to modern marketing, whereby collaborations are formed between customers and companies to create value added of a brand. Therefore, in order to win the competition, companies must think of a way to retain their competitive advantages, differentiate themselves, and secure their positions in the markets. One way to do so is by

managing intangible assets, since intangible assets, in which are often represented by brand, now contribute 70% - 80% of total market valuation of 500 companies in Fortune (The Economist Group, 2013).

According to The American Marketing Association, the definition of brand is "a name, term, sign, symbol, or design, or a combination of them, that is intended to identify the goods and services of one seller or a group of sellers and to differentiate them from those of competitors" (as cited in Kotler & Keller, Marketing Management, 2012, p. 241). In other words, brand is significant for companies to distinguish themselves from competitors and potential competitors. Brands are also tools for companies to communicate their values to customers' minds and hearts (Keller, 1993). Therefore, companies should have strategic management of their brands by building strong brands that have superior brand equity (Aaker, 1991; Kotler& Keller, 2012). Brand equity is a term used to explain a brand's assets and liabilities that could increase or decrease current value of products or services (European Institute for Brand Management, 2009).

Globalization era makes everything easier to be searched and found, since almostevery computer is provided with Internet service. In Indonesia itself, Internet penetration is approximately 28% from total population, in which 61.23% of Indonesia's Internet users utilize Internet for social media platforms, which is placed in the fifth rank after Internet utilization for emailing, searching for news, searching for goods and services, and searching for information of government's institutions (Harian TI.com, 2014). While according to Ministry of Communications and Information Technology (Kemenkominfo), Internet users in Indonesia were approaching 63 million people in last quarter of 2013, and 95 percent of Internet users utilize Internet for social media's access (Kominfo, 2013). Those facts show that Indonesia also starts to participate on online social media's trend, or in other words, is currently in transition from traditional to modern marketing. Indonesian companies also start to use social media platforms todesignate their brands' standpoint.

In this research, the researchers attempt to analyze one of Indonesia's companies, in specific Mall X as one of the biggest mall industry's companies in Surabaya. It is because Mall X, as the new comer also faced the impact of marketing transition and tight competition.

Shopping malls have been changing over time including the design, tenants, concept, as well as its functionality. According to Banerjee (2012), "malls have been transformed into a place for socializing, relaxing, entertainment and a symbol of status for consumers" (p. 106). As an effect, urban area people tend to go to shopping mall regularly either for business, daily needs, social needs, or recreation only. It is not surprising that shopping mall business is growing fast lately since the profitability is quite promising. The same phenomenon is happening in Indonesia, specifically in big cities such as Jakarta and Surabaya. In 2014, Indonesia had approximately 250 malls, 76 of them are located in Jakarta and 33 malls are located in Surabaya (Alexander, 2014; Nurhayat, 2014). Asosiasi

Pengelola Pusat Belanja Indonesia (APPBI) stated that fast growth of shopping mall business is caused by the changing lifestyle of Indonesian in socializing and consuming goods and services (Harian Neraca, 2014). It is also supported by the increasing of middle up income people from 25% of total population in the 1990's, became 57% in 2010 (Afif, 2014).

Mall X as a new comer has megablock mall concept that successfully brings up Surabaya citizen's lifestyle into the next level by collaborating with international brands. Mall X was built in 2011; and its main target is for middle-up class society. Based on its vision and mission, Mall X wants to bring innovation, give additional value, and offer a better life for society and stakeholders in order to be the first choice of consumers.

However, there are several things to be concerned in order to survive in mall industry in Surabaya. First, Asosiasi Pengelola Pusat Belanja Indonesia (APPBI) DPD East Java stated that Surabaya people has a unique characteristic in which Surabaya people tend to go to new malls because of their curiosity and after a while they get bored (Citra, 2011). Moreover, as time went by, many shopping malls rebranded themselves and renovated their building. Furthermore, looking at the tenants inside, customers hardly differentiate one mall to others since there are many common offerings. Seeing from those facts, it can be concluded that there is stiff competition among players in this business.

Therefore, Mall X should be able to differentiate itself among the others and it needs better marketing strategy. Currently, Mall X focuses more to socialize its tenants, events, and promotion through social media. The fact that social media is widely use in Surabaya becomes an opportunity for Mall X to do social media marketing in daily basis.

In conclusion, the researchers would like to investigate about specific use and functionalities of Mall X's Instagram through Honeycomb model, whether they have impacts on specific dimension of brand equity. Honeycomb model consists of identity, conversation, sharing, presence, reputation, and relationship use and functionalities.

LITERATURE REVIEW

In order to analyze the use and functionalities of social media, in the case of Mall X's Instagram, towards brand equity of Mall X, it needs strong foundation using theories and previous researches regarding both social media use and functionalities as the independent variable and brand equity as the dependent variable. Honeycomb model that was developed by Smith in 2007 is used as a framework to analyze the use and functionalities of social media. Meanwhile, elements of brand equity in Customer Based Brand Equity model developed by Aaker (1991) are used as the dependent variables within this research.

Honeycomb Model also aims to analyze how social software operates (Smith, 2007). Honeycomb model consists of seven building blocks: identity, presence, conversation, sharing, relationship, groups, and reputation;

detail of Honeycomb model can be seen in figure 1 (Smith, 2007). Every social media platform does not need to have all seven building blocks.

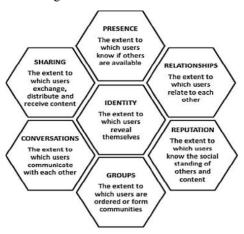


Figure 1. Honeycomb Model Source: Smith (2007)

First, the identity block presents the extent of a social media user discloses his identity or personal information, such as name, age, gender, occupations, etc. in social media platform. Social media user also tends to reveal feelings, opinions, likes and dislikes, etc. (Kietzmann, Hermkens, McCarthy, &Silvestre, 2011). Identity functionalities of Instagram could be seen through profile and shared contents. In the case of Mall X, there is a brief explanation of Mall X together with the contact number, email, and website on Mall X's Instagram profile. Moreover, Mall X shows its identity as a lifestyle mall through its content that follows trend (Instagram Mall X, 2015).

Second, the conversation block presents the extent of a social media user has a two-way communication with other social media users in social media platform (Webb, 2004). Users engage in conversations for different purposes. In this research, researchers want to measure the conversation use and functionalities of Instagram, in which taking account of comments, mention, and 'Direct' features. Conversation could be made through both mentioning other users inside a comment and using Instagram Direct to communicate with selected people (Babac, 2011). In the case of Mall X, conversation function is also used by Mall X by replying comment of others and mentions customers, other brands, and tenants' Instagram accounts.

Third, the sharing block presents the extent of a social media user shares, receives, and distributes content via online in a social media platform (Jokela, 2013). Fundamentally, the primary use and functionalities of social media is in sharing block, since all activities in social media platform involve sharing; sharing specific contents, such as text, links, pictures, sounds, videos. Instagram mainly enables its user to share photos and videos with hashtags inside caption (Babac, 2011). In the case of Mall X, It posts based on timeline that is suitable for certain context. Mostly, photos or videos have medium resolution (MDPI), which is minimum resolution for mobile phone. Moreover, it puts

persuasive and informative caption to keep its customers engaged.

Fourth, the presence block presents the extent of a social media user recognizes other users are accessible. In the case of social media, presence could be seen through their status and/or location update, which often represented by a feature called 'check-ins' (Jokela, 2013). Instagram allows other users to see one user's location after he posted a picture on timeline also by using 'check-ins' feature. It represents that he or she is available in specific place (Babac, 2011). Moreover, presence block also can be represented by captions or words in Instagram that indicate specific physical locations. In the case of Mall X, it uses caption in its posts that indicate certain store location (Instagram Mall X, 2015).

Fifth, the reputation block presents the extent social media user in defining behavior of others according to their history (Dingledine, Freedman, Molnar, Parkes, & Syverson, 2003). However, in social media context, reputation is built upon opinions through electronic word of mouth; if firms receive good electronic word of mouth, their reputation will be increased (Kietzmann, Silvestre, McCarthy, & Pitt, 2012). Electronic word of mouth is in a form of comments and endorsement by other social media users, followers, and opinion leaders. Reputation also could be seen in numbers in terms of number of likes and followers on Facebook. Twitter, and Instagram as well as number of thumbs up or thumbs down and number of views on Youtube (Kietzmann, Silvestre, McCarthy, & Pitt, 2012). In the context of Instagram, reputation function could be seen through positive comments, as well as followers and 'likes'. Moreover, number of followers and 'likes' could be a quantitative measure of reputation, whereas comments of users and followers will measure reputation from qualitative side (Babac, 2011; Liuski, 2012; Instagram, 2015). In the case of Mall X, Mall X's Instagram has many followers. In addition, many of customers or Mall X's Instagram followers give 'likes' and positive comments on photos and videos shared (Instagram Mall X, 2015).

Sixth, the relationship block presents the extent of a social media user to be able to relate with other users (Babac, 2011). In the context of Instagram, relationship can be built through following each other. An Instagram user could follow certain account to be able to see the updates as well as accept others' follow request to connect with them. Besides, through tagging and doing regram other users also could maintain relationship between users (Babac, 2011; Liuski, 2012; Instagram, 2015). In the case of Mall X, it maintains relationship with customer and opens its account for public and it follows account in relevance with its business. It tries to regram good quality of photo from its customers in order to appreciate and maintain the bond with its customers

Seventh, the group block presents the extent of a social media user could create communities in social media platforms. Social media has developed this function and provided tools to manage the social media users' membership. Group can be in two forms, self-created group and private group. Self-created group is a group that is

created by a social media user, such as list of families, fans, and friends, in his/her own account. On the other hand, private group is usually linked with the real world, in which needed approval or invitation for membership from the administrator of the group. Throughout this function, social media user is able to share certain content with members only and choose to be presence only for certain group of people (Kietzmann, Silvestre, McCarthy, & Pitt, 2012). In the context of Instagram, group function is in a form of Instameet where Instagram users are meet in a real time and face-to-face (Instagram, 2015). In the case of Mall X, group in a form of Instameet, has never been done. Therefore, in research group use and functionality HoneycombModel will be eliminated (Instagram Mall X. 2015).

David A. Aaker's theory regarding brand equity has been the foundation for many researches. Based on his definition, brand equity is brand's assets and liabilities that could increase or decrease the value of products or services (European Institute for Brand Management, 2009). Brand equity can improve marketing productivity as well as reduce the expenses by shaping customer's perception towards a brand. Brand equity has four elements, including brand awareness, brand association, brand loyalty, and perceived quality (Aaker & Joachimsthaler, 2000). This research will use the four elements of Brand Equity proposed by Aaker and focusing on Customer-Based Brand Equity or from marketing perspective.

First, Keller (2012) defines brand awareness dimension as the ability of consumer's to recognize and to recall the brand's components (name, sign, logo, and etc.) on their mind as a component of a certain product or service of a company. Whereas according to Aaker (2000), brand awareness is a brand's strength in consumer's memory in continuous period of time. Brand awareness has vital role of consumers' decision making, since the higher the brand awareness, that specific product/brand will become member of consumers' consideration set of brands (Moisescu, 2009). Furthermore, brand awareness can be differentiated from width and depth. Width means that when a consumer buys a product, a brand name will be recalled on their memories at one time. Depth is the degree of easiness of consumers to recall the brand. Creating brand awareness is the first step of creating strong brand equity.

Second, Aaker (2000) underlined brand association as any individual's memory linkage towards a particular brand. There are three categories of brand association, such as: attitudes, benefits, and attributes (Keller, 2012). Attitudes are defined brand's overall valuations. Benefits are divided into three types: functional (basic physiological needs, such as food and clothes), symbolic (consumers' perception of a brand), and experimental (what consumers feel when they use the product). While attributes are divided into two types: product-related attributes (such as ingredients, flavor, Etc.) and non product-related attributes (price, packaging, Etc.) (Keller, 2012). As the name implies, brand association is a brand's meaning to people, therefore brand association is highly corresponded to consumers' experiences, feelings, and attitudes. Brand association can assist consumers to

generate and recall information about a brand, maintain a reason to buy, create consumers' positive feelings and attitudes (Aaker & Joachimsthaler, 2000). Moreover, brand association is able to create POD (point of differentiation) and become distinguishable among competitors that lead to competitive advantage (Keller, 2012). Brand association is an important dimension of brand equity, since the higher level of brand association will increase brand equity (James, 2005).

Third, perceived quality refers to customer's mindset or perceptions towards quality of certain brand in a benchmark of others in similar industry (Aaker D. A., 1991). Perceived quality could be built through brand's perceived credibility and superiority in comparison with others (Ph.D. Mustafa Karadeniz, 2010). Perceived quality influences customers to choose preferred brand rather than others (Yoo, Donthu, & Lee, 2000). Perceived quality, which is based on usage experience of customers links directly to the customer satisfaction from the actual quality of the products. Brand differentiation and superiority could be a positive value to the customer's satisfaction, which leads to the higher perceived quality of a brand. High perceived quality in customer's mindset is one of competitive advantage for company that open up the chance to charge a premium price. At the end, higher perceived quality will lead to higher brand equity (Baldauf, Cravens, & Binder, 2003).

Fourth, according to the basic definition, brand loyalty defined as "final dimension of consumer brand resonance symbolizing the consumer's ultimate relationship and level of identification with the brand" (Keller, 2012). Nowadays, brand loyalty is widely accepted as behavioral of constant purchase on one specific good or services of certain brand (Aaker D. A., 1991). Based on composite approach, brand loyalty refers to the extents which customers commit and have constant repurchase of the certain brand. As it is defined, it implies that customer who is loyal to a preferred brand would likely to accept any price given and having high switching cost to another brand (Severi, Ling, & Nasermoadeli, 2014). There are two main dimensions in building brand loyalty, which are intensity and activity. Intensity refers to depth of the bond with a brand; while purchase, use, and other activities that are related to the brand are called activity dimension (Keller, 2001). Therefore, in order to increase brand loyalty, companies should maintain customers' cognitive and affective appeals. Cognitive side refers to functional benefit of using certain brand. Affective side can be formed through advertising and promoting similarity of brand values with customers' values bydirect connection with customers (Touzani & Temessek, 2009).

The researchers adapt the framework (Figure 2) from a journal titled 'Impact of Social-Media Use on Brand Equity of Magazine Brands: A Qualitative Study of Vogue Turkey' written by Rana Babac (2011). This framework is to describe relationship between impact of specific social media use and functionalities towards each element of brand equity through Honeycomb Model by Smith (2007)

and Customer-Based Brand Equity by Aaker (1991) frameworks altogether.

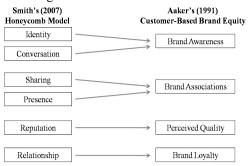


Figure 2. Impact of Social Media Use and Functionalities towards Brand Equity (ISMBE)

In order to answer the research problems, the hypotheses are constructed as following:

- There is a significant impact of Mall X's Instagram identity use and functionalities towards brand awareness of a brand
- There is a significant impact of Mall X's Instagram conversation use and functionalities towards brand awareness of a brand
- 3. There is a significant impact of Mall X's Instagram sharing use and functionalities towards brand association of a brand
- 4. There is a significant impact of Mall X's Instagram presenceuse and functionalities towards brand association of a brand
- 5. There is a significant impact of Mall X's Instagram reputation use and functionalities towards perceived quality of a brand
- 6. There is a significant impact of Mall X's Instagram relationship use and functionalities towards brand loyalty of a brand
- 7. There is a simultaneous significant impact of Mall X's Instagram identity and conversation use and functionalities towards brand awareness of a brand
- 8. There is a simultaneous significant impact of Mall X's Instagram sharing and presence towards brand association of a brand

RESEARCH METHOD

In this research, causal study will be used as theresearch method to analyze the impact of social media use and functionalities towards brand equity. The researchers would like to know whether the independent variables could have significant effect on dependent variables as mentioned in the research hypotheses through quantitative study or survey. Therefore, the researchers would like to test the asymmetrical relationships of the independent variables towards the dependent variables.

Quantitative study is being used because of theresult's objectivity that has less bias compared to the qualitative study. Therefore it will have more precise and accurate results that are applicable to the company. There are eight hypotheses regarding the impact of social media use and

functionalities towards brand equity that are tested, therefore it is suitable to use quantitative study.

Independent variables of this research are the building blocks of Honeycomb model (Smith, 2007) with exclusion of group use and functionalities. Therefore, the independent variables used are identity, conversation, sharing, presence, reputation, andrelationship use and functionalities. The dependent variables are brand elements of brand equity, which consists of brand awareness, brand association, perceived quality, and brand loyalty.

Based on the classification of data type, this research adopts nominal data and interval data. This research will use three types of rating scales: category scale, dichotomous scale, and 5-point Likert scale. In gathering data, the researchers were using both primary and secondary data. First, the researchers looked for secondary data as the basis for theoreticalbackground and relevant supporting research. For this research, primary data is collected through onlinequestionnaires, personal communication with chief ofpromotion Mall X, and internalsource.

For the purpose of this research, probability sampling is used. In particular, this research used the simple random sampling method in determining the respondents. Population in this research is the followers of Mall X's Instagram; they have received updates as well as experienced the use and functionalities of Mall X's Instagram as a whole. 100 out of 111 questionnaires are accepted and analyzed in this research.

In order to measure social media use and functionalities and brand equity elements through questionnaires, the researchers refer to previous relevant journals and studies. Some indicators or measurements are developed from the definition.

The researchers examine brand awareness as the degree of awareness by respondents regarding the brand. The indicators are differentiated into brand depth and brand width

The indicators of brand association evaluate the degree of respondents' association regarding the brand. The measurements are based on attitudes, benefits, and attributes of the brand.

Perceived quality indicators would measure respondents' perceived quality in benchmarking with other competitiors in Surabaya. It can be in a form of both products and services provided.

Brand loyalty indicators would investigate the loyalty of respondents towards the brand. Basically, the measurements can be categorized into intensity and activity dimensions of brand loyalty.

Identity indicators would investigate the extent to which a brand discloses company identity and information on Instagram. Indicators used are Instagram profile and shared content.

Conversation indicators would investigate the extent to which a brand has two ways communication with its customers and tenants on Instagram. The indicators take comment and mention in Instagram into account.

Sharing indicators would investigate investigate the extent to which a brand shares, receives, and distributes

content on Instagram. The indicators are taking all forms of content shared by a brand in Instagram such as pictures, videos, caption, and hashtags.

Presence indicators identify the extent of brand's availability on Instagram. The indicators are regarding location update on Instagram.

Reputation indicators identify the extent of other users in defining reputation of a brand on Instagram based on historical data. The indicators are number of followers, likes, and positive comments.

Relationship indicators will investigate extent to which a brand relates with other users on Instagram. The indicators are regarding relationship with its followings and followers, regram, and open account.

Table 1. Questionnaire Items

BRAND AWARENESS		
Brand Depth		
I am aware of Mall X	BA1	
I can recognize Mall X's logo in comparison with other malls' logo in Surabaya	BA2	
I know how the physical appearance of Mall X looks like	BA3	
Brand Width		
When I think of mall in Surabaya, Mall X is the first mall I think of	BA4	
When I want to visit a mall in Surabaya, Mall X is the first mall I recall	BA5	
BRAND ASSOCIATION		
Attitudes		
I believe Mall X is a high-class mall	BAS1	
Mall X has its own personality as magnificent world of lifestyle	BAS2	
Benefits		
Mall X is able to fulfill my needs of entertainment	BAS3	
Visiting Mall X makes me a socialite (socialita)	BAS4	
By visiting Mall X, it provides greater satisfaction	BAS5	
Attributes		
Mall X has many varieties of stores	BAS6	
Mall X's physical appearance is luxurious	BAS7	
PERCEIVED QUALITY		
Mall X has more high-end brands tenants compared to other malls in Surabaya	PQ1	
Mall X has more high-end brands tenants compared to other malls in Surabaya	PQ2	
The service quality of information center in Mall X is relatively high compared to other malls in Surabaya	PQ3	
The service quality of doorman in Mall X is relatively high compared to other malls in Surabaya	PQ4	

The service quality of valet service in Mall X is relatively high compared to other malls in Surabaya	PQ5	
Events in Mall X is more unique compared to other malls in Surabaya	PQ6	
BRAND LOYALTY		
Intensity Dimension		
Events in Mall X is more unique compared to other malls in Surabaya	BL1	
Mall X will be my first choice	BL2	
Activity Dimension		
I would visit Mall X regularly	BL3	

IDENTITY		
Mall X reveals its company information through its Profile in Instagram	ID1	
Mall X Instagram's shared content follows the	ID2	
trend (lifestyle) Mall X Instagram's shared content is dominated		
by high-end brands	ID3	
CONVERSATION		
Mall X usually mentions other brands or tenants	CV1	
that have Instagram account on its Instagram	C 1 1	
Mall X usually mentions customers that have Instagram account on its Instagram	CV2	
Mall X replies comments from customers on its		
Instagram	CV3	
SHARING		
Mall X shares interesting photo	SH1	
Mall X shares at least medium quality of photo (MDPI), not blurred on phone	SH2	
Mall X shares interesting video	SH3	
Mall X shares interesting hashtags	SH4	
Mall X shares informative caption	SH5	
Mall X shares persuasive caption	SH6	
Mall X shares content in relevance with current environment and time	SH7	
PRESENCE		
Mall X puts specific location on promotion posting	PR1	
Mall X puts specific location on new store posting	PR2	
Mall X puts specific location on food posting	PR3	
Mall X puts specific location on event posting	PR4	
REPUTATION		
Mall X has big number of followers compared to other malls in Surabaya	RP1	
Mall X receives positive comments from	RP2	
customers	IXF Z	
Mall X receives a lot of "likes" in posting	RP3	
RELATIONSHIP		

Mall X receives a lot of "likes" in posting	RL1
Mall X follows accounts in relevance with its business	RL2
Mall X regrams pictures from customers	RL3

RESULTS AND DISCUSSION

This research will be analyzed with the support of statistical computersoftware, which is SPSS for Windows. For the data processing method, the researchers use Simple Linear Regression and Multiple Linear Regression analyses; whereby there are six independent variables are hypothesized to explain variance of four dependent variables. Technique for carry out regression analysis is named Ordinary Least Square (OLS), in which first developed by Carl Friedrich Gauss. There will be analyses to check the validity and the reliability of data, by testing the corrected item total correlation (r value) and Cronbach's Alpha test, respectively. Furthermore, in order to get best, unbiased, and linear regression results, the researchers run BestLinear Unbiased Estimator (BLUE) Classic Assumption Testing. BLUE Classic Assumption Testing is used to assure that there are no multicollinearity of independent variables, no autocorrelation in residuals, and no residuals' heteroscedasticity; also indicating normality of residuals (Wooldridge, 2013). Researchers then utilize the coefficient of multiple determinants to see the statistical model's goodness of fit by looking for Adjusted R Square and F-Test. F-Test is conducted to investigate whether the specific independent variables tested have simultaneous impacts on respective dependent variables. Lastly, t-Test is used to analyze the individual impact of independent variable towards dependent variable.

There are ten variables, both independent and dependent variables, to be tested with validity and reliability tests. Six of them are independent variables; which are Identity, Conversation, Sharing, Presence, Reputation, and Relationship. While the rest are dependent variables, such as Brand Awareness, Brand Association, Perceived Quality, and Brand Loyalty.

Moreover, there are two multiple linear regression models and two simple linear regression models to be tested. The first multiple linear regression is analyzing the impact of Identity and Conversation towards Brand Awareness. The second multiple linear regression is analyzing the impact of Sharing and Presence towards Brand Association. The first simple linear regression is analyzing the impact of Reputation towards Perceived Quality. The second simple linear regression is analyzing the impact of Relationship towards Brand Loyalty.

Table 2. Result of Reliability Test

Variable	Cronbach's Alpha	N. of Items
Identity	0.898	3
Conversation	0.890	3

Sharing	0.913	7
Presence	0.861	4
Reputation	0.731	3
Relationship	0.792	3
Brand Awareness	0.910	5
Brand Association	0.885	7
Perceived Quality	0.845	6
Brand Loyalty	0.77	3

All variables, both independent and dependent variables' Cronbach's Alpha is above 0.7, as it is seen in Table 2 which fulfill the requirement for reliability (Ghozali, 2013). Moreover, all items within variables are considered to be valid, seeing from values of Corrected Item-Total Correlation are all above r table (Table 3.). This research has 98 degree of freedom, and 0.05 significance level (2-tailed); therefore the r table is 0.197 (Ghozali, 2013).

Table 3. Result of Validity Test

Variable	Indicator	Corrected Item-Total Correlation
	ID1	0.837
Identity	ID2	0.800
	ID3	0.768
	CV1	0.769
Conversation	CV2	0.808
	CV3	0.775
	SH1	0.725
	SH2	0.739
	SH3	0.705
Sharing	SH4	0.663
	SH5	0.801
	SH6	0.702
	SH7	0.816
	PR1	0.789
Presence	PR2	0.671
Presence	PR3	0.712
	PR4	0.663
	RP1	0.534
Reputation	RP2	0.546
	RP3	0.583
	RL1	0.617
Relationship	RL2	0.763
	RL3	0.536
	BA1	0.765
5 1	BA2	0.775
Brand Awareness	BA3	0.778
Awareness	BA4	0.796
	BA5	0.759
	BAS1	0.666
	BAS2	0.684
	BAS3	0.663
Brand Association	BAS4	0.697
Association	BAS5	0.649
	BAS6	0.729
	BAS7	0.653

Perceived	PQ1	0.613
	PQ2	0.601
	PQ3	0.587
Quality	PQ4	0.607
	PQ5	0.698
	PQ6	0.644
	BL1	0.614
Brand Loyalty	BL2	0.626
	BL3	0.577

There are four classical assumption tests to be performed for four linearregression models as the preliminary steps.

The first assumption test to be performed is multicollinearity test. Theresearchers use two methods, which are by analyzing the coefficient correlations, analyzing tolerance value and variance inflation factor (VIF). For the first method, multicollinearity is indicated when the coefficient correlations is greater than 0.9. While for the second method, if the Tolerance value is ≤ 0.10 and the value of Variance Inflation Factor (VIF) is ≥ 10 , it shows that there is a multicollinearity problem (Ghozali, 2013).

There is no multiple linear regression which has coefficient correlations value above 0.90; Tolerance value below or equal to 0.10; and VIF above or equal to 10. Therefore, there is no multicollinearity occurs between the first and second multiple linear regression.

For both the first and second simple linear regression model, the multicollinearity testing is not necessary. Multicollinearity will occur when there is correlation between independent variables. In the simple linear regression, there is only one independent variable; thus it is not possible for multicollinearity to occur (Ghozali, 2013).

The second assumption test is autocorrelation test, which is analyzed by seeing the result of Durbin-Watson test. The test aimed to get the dU<d<4-dU, which means that there are no both positive and negative autocorrelation (Ghozali, 2013).

Table 4. Result of Autocorrelation Test

Regression	Durbin Watson
First Multiple Linear Regression	2.141
Second Multiple Linear Regression	2.243
First Simple Linear Regression	2.162
Second Simple Linear Regression	2.188

According to the Durbin-Watson table, the value of dU and dL for two independent variables with 100 samples and 0.05 significance level are 1.715 and 1.634, respectively. Since the value of Durbin-Watson is above dU and below 4-dU. Therefore, there is no both positive and negative autocorrelation in the residuals of the first and the second multiple linear regression models.

In accordance to the Durbin-Watson table, for one independent variable with 100 samples and 0.05 significant

level, the value of dU and dL are 1.694 and 1.654, respectively. The value of Durbin-Watson in the first and the second linear regression model fulfill the criteria, which is greater than dU and below 4-dU. Therefore, positive and negative autocorrelation do not occur in the residuals of the first and the second simple linear regression model.

The researchers use statistical analyses. For the statistical test, the Park test is conducted. The decision rule for the Park test is when the coefficients are insignificant with significance value above 0.05. When the significance value is above 0.05, heteroscedasticity does not occur (Ghozali, 2013).

Table 5. Result of Park Tests

Independent Variable	Park Test Asymp. Sig (2-tailed)
ID	0.968
CV	0.936
SH	0.355
PR	0.291
RP	0.264
RL	0.623

Table 5 indicates that there is no heteroscedasticity occurs. The significance levels of independent variables are above 0.05. Heteroscedasticity does not occur in residuals of all linear regression models.

In conclusion, from the statistical test applied, it can be seen that there is no heteroscedasticity in residuals of all linear regression models.

The researchers utilize statistical analyses to conductnormality test for two simple linear regression models and two multiple linear regression models. Kolmogorov-Smirnov test is used for statistical analysis. The decision rule of Kolmogorov-Smirnov test is if the significance level is below 0.05 (2-tailed), or significant (Ghozali, 2013).

Table 6. Result of Kolmogorov-Smirnov Tests

Regression	Kolmogorov-Smirnov Asymp. Sig (2-tailed)
First Multiple Linear Regression	0.352
Second Multiple Linear Regression	0.733
First Simple Linear Regression	0.405
Second Simple Linear Regression	0.552

According to the table 6, all the values of significance level are not below 0.05. It can be inferred that the residuals of all linear regression models are normally distributed. All linear regression models are statistically proven to have residuals that are normally distributed.

After generating four classical assumption tests, the data is processes during linear regression analysis. In this

section, adjusted R square, F-test, and t-test are conducted for multiple linear regression models. However, for simplelinear regression adjusted R square and F-test are being used (Ghozali, 2013).

Table 7. Result of Adjusted R Square

Regression	Adjusted R Square
First Multiple Linear	
Regression	0.955
Second Multiple Linear	
Regression	0.789
First Simple Linear Regression	0.646
Second Simple Linear	
Regression	0.752

First, it can be seen in the table that the adjusted R square shows a value of 0.955 for the first multiple linear regression model. It means that 95.5% of the variation in Brand Awareness can be determined by the variation in Identity and Conversation, while the other 4.5% are explained by variables other than those two independent variables.

Second, based on the table., adjusted R square shows a value of 0.789 for the second multiple linear regression. It meansthat 78.9% of the variation in Brand Association can be determined by the variation in Sharing and Presence, while the other 21.1% are explained by other factors.

Third, the adjusted R square of the first simple linear regression is 0.646, meaning that 64.6% of the variation in Perceived Quality can be explained by variation in Reputation. The other 35.4% is explained by other factors.

Forth, Adjusted R square of the second simple linear regression model is 0.752, meaning that 75.2% of the variation in Brand Loyalty can be explained by variation in Relationship. The other 24.8% is explained by other factors.

Table 8. Result of F-Test Sig.

Regression	F-Test Sig.
First Multiple Linear Regression	0.00
Second Multiple Linear Regression	0.00
First Simple Linear Regression	0.00
Second Simple Linear Regression	0.00

Table 8 above indicates that all the Sig. values are 0.00, which are below 0.05. Identity and Conversation use and functionalities as independent variables have simultaneous significant impact on Brand Awareness of a brand. Sharing and Presence as independent variables have simultaneous significant impact on Brand Association of a brand. Reputation as independent variable has significant impact on Perceived Quality. Relationship as independent variable has significant impact on Brand Loyalty.

Table 9. Result of Regression Coefficients

Regression	Independent Variable	Unstandardize d Coefficients	t- Test Sig.
First Multiple	ID	0.544	0.00
Linear Regression	CV	0.394	0.00
Second Multiple	SH	0.190	0.00
Linear Regression	PR	0.695	0.00
First Simple Linear Regression	RP	0.712	0.00
Second Simple Linear Regression	RL	0.804	0.00

Seeing from Table 9 above, there are several things to be concluded.

It is shown in the table that the Sig. value of Identity is below 0.05, meaning that Identity use and functionalities alone has significant impact on Brand Awareness. Furthermore, looking on the Unstandardized Coefficients Betaof 0.544, it can be understood that for every single unit increase of Identity, there will be 0.544 unit increases on the Brand Awareness. For Conversation, it also has Sig. value below 0.05. It means that Conversation use and functionalities individually has significant impact on Brand Awareness. Moreover, the Unstandardized Coefficient Beta of Conversation is 0.394, which is relatively lower compared to Identity's. For every unit increase in the Conversation, there will be unit increase of 0.394 on the Brand Awareness.

Therefore, it can be concluded that the regression equation for the first multiple linear regression model is:

$$BA = \beta_0 + 0.544 \text{ ID} + 0.394 \text{ CV} + \varepsilon$$

It is shown in the table that the Sig. value of Sharing is below 0.05, meaning that Sharing use and functionalities alone has significant impact on Brand Association. Furthermore, looking on the Unstandardized Coefficients Beta of 0.190, it can be understood that for every single unit increase of Sharing, there will be 0.190 unit increase on the Brand Association. For Presence, it also has Sig. value below 0.05, which means that Presence use and functionalities individually has significant impact on Brand Association. Moreover, the Unstandardized Coefficient Beta of Presence is 0.695, which is relatively higher compared to Sharing's. For every unit increase in the Presence, there will be unit increase of 0.695 on the Brand Association.

Therefore, it can be concluded that the regression equation for the second multiple linear regression model is:

BAS =
$$\beta_0 + 0.190 \text{ SH} + 0.695 \text{ PR} + \epsilon$$

Seeing from the Unstandardized Coefficient Beta, the value is 0.712. It is implied that for every unit increase on Reputation, there will be unit increase of 0.712 in Perceived Quality.

Therefore, the regression equation of the first simple linear regression is stated below.

$$PQ = \beta_0 + 0.712 RP + \varepsilon$$

By looking at the Unstandardized Coefficient Beta, the value is 0.804. It is implied that for every unit increase on Relationship, there will be unit increase of 0.804 of Brand Loyalty.

Therefore, the regression equation of the second simple linear regression is stated below.

$$BL = \beta_0 + 0.804 RL + \varepsilon$$

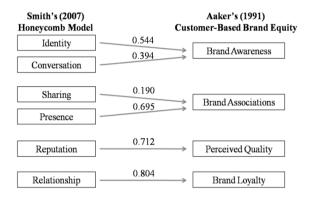


Figure 3. The Unstandardized Coefficients of Regression Model

CONCLUSION

Despite tight competition among malls in Surabaya, Mall X as the new comer has successfully brought innovation in mall industry. However, having an innovation does not indicate that Mall X wins the competition; other malls also did the same. Acknowledgingthis fact, it is crucial for Mall X to take actions in order todifferentiate itself and win the competition. One of the ways to differentiate itselfis by enhancing its marketing strategy, especially in terms of social media marketing, to build brand eauity (Kotler & Keller. Christodoulides, 2009; Berthon, Pitt, McCarthy, & Kates, 2007; Aaker, 1991). By emphasizing social media marketing, in which focusing on Instagram as social media platform. Mall X has tried to brand itself as a mall of lifestyle. Thus, the researchers attempt to analyze the impact of social media use and functionalities, focusing on Instagram, towards Mall X's brand equity; whether it is effectively and significantly affecting on the brand equity.

The first, second, and seventh hypotheses are answered by the first multiple linear regression model. First, the seventh hypothesis, which is focusing on the simultaneous impact, is answered by the result of F-test. The result of F-test's Significance level is 0.000, which is below 0.05. It is implied that both independent variables, Instagram Identity and Conversation use and functionalities, are significant predictors of Brand Awareness. The first and second hypotheses are about the individual impact of each independent variable, Identity and Conversation use and

functionalities towards Brand Awareness. It is answered by the t-test result of the first multiple linear regression model. These results show that both Identity and Conversation have individual significant impacts towards Brand Awareness.

For the third, fourth, and eighth hypotheses are answered by second multiple linear regression. Firstly, the third and fourth hypotheses are tested using t-test of each independent variable, Sharing and Presence, towards Brand Association as the dependent variable. All P-values of both independent variable are below Sig value of 0.05., which is 0.000 for Sharing and 0.000 for Presence. It proves that Sharing and Presence have individual significant impacts on Brand Association. Secondly, simultaneous impact is being tested using the F test. The result of F-test's Significance level is 0.000, which is below 0.05. It is implied that the independent variables, Instagram Sharing and Presence use and functionalities, are significant predictors of Brand Association.

The first simple linear regression answers the fifth hypothesis about the impact of Reputation towards Perceived Quality. The F-test results indicate a Sig. value F of 0.000, which is much lower compared to significance level of 0.05. Therefore, from the results, it can be concluded that there is a significant impact of Instagram Reputation use and functionalities towards Perceived Quality of a brand.

The second simple linear regression answers the sixth hypothesis about the impact of Relationship on Brand Loyalty. The F-test results indicate a Sig. value F of 0.000, which is lower compared to significance level of 0.05. At last, it can be concluded that there is a significant impact of Instagram relationship use and functionalities towards brand loyalty of a brand.

Similar to other researchers, the researchers also identify several limitations that may influence to the analysis and results regarding the research. Due to time and resources constraints, researchers only gathered 100 acceptedquestionnaires. Moreover, this research onlycovers one of social media platforms that are utilized by Mall X, which is Instagram. Mall X has other social media platforms, such as Facebook and Twitter. Furthermore, researches regarding relationship between social media use andfunctionalities and brand equity are not easily to be found, especially related to the Honeycomb Model. Honeycomb Model is rarely used in other academic journals. Therefore, the researchers believe thatthere are things that can be improved for further research. First, future researchers may use the required sample size table developed by Gang Xu (1999) to determine the appropriate sample size from the given population. Second, it is suggested that the future researches to add social media platforms coverage including Facebook, Twitter, Path, Etc. In addition, future researchers could compare the effectiveness of each social media platform used on increasing brand equity.

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