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# THE USE OF QUALITY, SECURITY AND TRUST FACTORS TO IMPROVE THE ONLINE PURCHASE DECISION

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#### ABSTRACT

Apparel industry is one of the largest business that serves online customers around the world. Indonesia as a country with the huge apparel industries enjoys the growth of online business. With the consistent growth of middle class economy, apparel industry has become the most promising online business in Indonesia. Due to its huge supplies and demands, have created complex business environment for apparel industry in Indonesia. It combines with online issues such as we b quality, security and trust, are the main issues haunting major Indonesian customers, which are developing their knowledge about online business. The paper uses a case study of the largest online apparel vendor in the South-East Asia, Zalora, where it has strong customer bases in greater Jakarta area. The paper examines the important factors of website quality, security and trust and relates them to the purchasing decision.

Keywords: Website Quality, Security, Trust, e-Commerce, Online Purchase Decision.

### 1. INTRODUCTION

This AC Nielsen [1] [2] has reported that the clothing accessories and shoes have reached around 46% for the consistent browse and buy rates category amongst the internet users. The figure represents major 60 countries that have active internet users. PWC Indonesia outlook estimated the total sales of apparel can reach US\$ 14 billions in 2016, with average 7.2% growth every year [3]. McKinsey reported there are additional 5 million middle classes are created in Indonesia every year [3]. PWC estimated the e-commerce transactions were worth US\$1-2 billion in 2013, compared with total retail sales of US\$330 billion. The value of online sales has more than tripled in the past two years [4].

Although with the fast growth, the contribution of online sales still less than 1% of the national GDP [3]. There are many factors concerned Indonesian users especially related to online business, such as: the low trust between seller and buyer, and the payment processes are quite tedious [2]. Nevertheless, the banks are lowering down their barriers, and the awareness apparel vendors are getting better about online business. As a result, the number of credit cards users are rising sharply and online retailers are gaining a greater understanding amongst the Indonesian shoppers [3]. Other classical issues concerned the Indonesian online users are: web security and vulnerable online transaction, lack of e-commerce law and security enforcements [5] [6]. All these issues are contributing to lowering the trust to the online transactions.

The paper uses the largest apparel site in the South-East Asia, Zalora that has consistent growth and strong customer bases. The paper is based on the study of Prattisya [7], addressing the low customer satisfaction related to the web design and identifying the ways to improve on it. The low customer satisfaction is believed may lead to the purchasing decision. The study addresses this issue, through examining the major customer bases in greater Jakarta area that contributes the major profits for the Zalora Indonesia.

#### 2. THEORETICAL FOUNDATION

Gregg and Walcza [8] addressed the good quality of web that attract people attention should have the following dimensions: information quality, ease-ofuse, usability, aesthetics, trust building technologies and emotional appeal tone. The apparel business pays high attention to the dimensions of [9]: the aesthetics, ease of use and reputation, along with ease multimedia access and rich contents such as information guide and search engine [10]. Strong fashion brand facilitates the communication of

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unique symbolic value. It distinguishes the company's identity from competitors, and motivate the purchasing decision process. The image of strong brands should be associated with the high quality of web design [11] [12].

# 2.1. Quality.

Apparel business is about serving the "visual" interest to the customer, and it always associated with the presentation of the web. The design of web quality for the apparel should comply the major indicators as follows:

Variables	Indicators	References	
	1. Ease of use.		
	2. Usefulness.		
	3. Entertainment (visual appeal)	[13][14]	
Web	4. Complementary Relationship (enabling complete transaction online)	[13][14]	
Quality	5. Service Quality	[14] [15]	
	6. Innovative design	[13] [16]	
	<ul><li>7. Aesthetic design</li><li>8. Information Quality</li></ul>	[16]	
	9. Consistent Images.	[13]	
	10. System Quality	[14]	

Table 1: Quality Variable and its indicators.

# 2.2. Security management

The paper uses the security management from the user perspectives, with aims at four security principles such as [17] [18]: (1) confidentiality, the privacy of data stored in the web application should not be divulged under any circumstance; (2) integrity, the data contained in the web application should be consistent and should not be modified by any unauthorized users; (3) availability, the site should be accessible by the authorized user within a certain period depending on demand; (4) nonrepudiation, the authorized user is recorded in the undeniable log history.

There are many apparel vendors competing each other in complex business environment either in online and offline business. Unethical business practices [11] relates with web attacks has received special attentions for both online vendor and customers. The common security issues frequently

especially related with the attacker occur competence, technological advances, vulnerability exploitation opportunities, etc. Its techniques include: buffer overflow, SQL injection, spamming, packet sniffing, spoofing/masquerade [19], abuse of cookies, phishing [20], DNS hacking [21], etc. In order to secure the transaction, the security measurement should involve with [22], security lock, HTTPS use, emphasizing the privacy policy, established good relationships with certified partners, and promoting social security awareness [23] [24]. The social security design is also considered important for many customers to shop online, where the customer needs special referrals from the third parties or through the word of mouths. The indicators for security are summarized as follows:

Table 2. V	<i>Web Security and its indicators.</i>
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Variables	Indicators	References
	1. Security lock	[22]
	2. HTTPS use	[25]
	3. Privacy Policy	[22]
Web Security	4. Certified Partners (e.g. Banks, Security provider, etc.)	[26]
	5. Social Cue Security Design.	[23] [24]

#### 2.3. Trust.

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Table 3. Trust and its indicators.

Variables	Indicators	References
	1. Product (brand) experiences	[27]
	2. Perceived risk	[16] [28]
	3. Quality of Product and Services	[29]
Trust	4. Order fulfillment	[30]
	5. Benevolence	[31] [32]
	6. Integrity	[31] [33]
	7. Trusted third party	[28];
	8. Customer Supports	[34]

The apparel industry is often criticized with negative images portrayed by media, it surrounds with unethical business practices and supply chain issues [28]. So, building trust becomes essential for any apparel firm. Trust between consumers and firms has been found to influence brand loyalty [27], perceived risk [35][28], price and services [29], purchase intentions [36] that relates with order fulfillment [30], benevolence of the vendor [31], integrity [31], trusted supply chain issues related to the third party [28], and customer support [37]. The trust has changed the way firms engage with

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consumers [38]. The indicators for the trust are summarized in the Table 3 above.

#### 2.4. Purchase decision

The Zalora stores run both off-line and on-line to capture the Indonesia markets. With the off-line, Zalora stores has been well established in the fancy malls and competes with other well-established brands and apparel vendors. With the off-line, the paper measures the decision to buy based on the perceived ease of both product use and information usefulness [37], perceived low cost product and service, purchase experience related with the site and new products, compatibility with customer's value, norm and belief, getting direct personal influence and external influence, facilitating necessary conditions such as financial supports, etc., and familiarity with online search and purchasing (self-efficacy). It is illustrated in the Table 4.

Table 4.	Purchase	decision	and its	indicators.

Variables	Indicators	References
Purchase Decision	<ol> <li>Perceived ease of use and usefulness</li> <li>Perceived Low Cost</li> <li>Purchase experience</li> <li>Compability (with value, norm and belief)</li> </ol>	[34]
	<ul><li>5. Interpersonal influence</li><li>6. External influence</li></ul>	[39] [40]
	7. Facilitating conditions (e.g. Financial supports, etc.)	[41]
	8. Self-Efficacy (e.g. familiarity with internet search)	[42]

#### 2.5. Zalora

Zalora is a popular apparel vendor in In Indonesia. Zalora's product comprised of man and woman clothes, shoes, accessories, and beauty products. Every year Zalora attracts more than 150 thousand Indonesia customers to visit and shop. Zalora was established in 2012 and has served the major market of South-East Asia such as: Singapore, Indonesia, Malaysia and Brunei, Filipina, Thailand, Vietnam, and Hong Kong, and Australia.

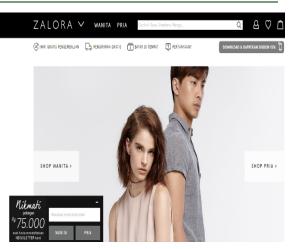


Fig.1. Zalora (http://www.zalora.co.id)

### **3. RESEARCH DESIGN**

#### 3.1. Research Model

Based on the theories above, the article proposed the research model as follow:

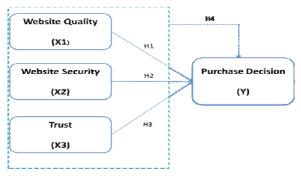


Fig. 2. Impact of Quality, Security and Trust to the Purchase Decision.

The hypothesis formulation for the research model above are summarized as follows:

- 1. H1: web quality affects the purchase decision.
- 2. H2: web security affects the purchase decision.
- 3. H3: trust affects the purchase decision.
- 4. H4: website quality, website security and trust simultaneously affect the purchase decision.

#### 3.2. Data Gathering Method

The article used purposive sampling method with easy to reach 320 buyers in the greater Jakarta area. The article used a questionnaire with Likert scale 1-5. The data gathering had been done starting from June until December 2015, through several mediums such as: e-mails, phone calls, and interviews. There were 250 respondents were

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validated for further analysis. Further interviews, focus groups, and observation had been to explore the findings.

There were 250 respondents participated in the study. They were comprised of: 128 men and 122 women (See Table 5 below).

Table 5. Distribution of the respondents.

Sex	Valid respondents	Percentage
Male	128	51.2
Female	122	48.8
Total	250	100

The distribution of respondents was summarized into 6 categories comprised of: employees and professionals, students, housewives, unemployed and business owners. The largest number were college students. They were the main target since they were well educated with high familiarity with IT. Employees, housewives and professionals occupied the second, third and fourth of the percentage. Table 6 showed there is increasing awareness amongst young generation to develop online purchasing attitudes. The trend also followed by business owners. Our observation showed there is increasing trend of business owners to get used with online purchase.

Description	Valid Respondents	Percentage
Employees	33	13.2
Students	139	55.6
Professionals	23	9.2
Housewives	28	11.2
Unemployed	11	4.4
Business owners	16	6.4
Total	250	100

Table 6. Description of the respondents.

Table 7 showed college students and high school students were the active online customers. It can be understood they are digital native generation, develop high familiarity with internet technology and advance electronic gadget use. They are also important part of strong middle-income families. Vocational students had the lowest respondents. It can be understood, that they are not the target customer of Zara (middle up income families).

Table 8 showed the distribution of respondents that purchased during the period of July-Dec 2015. The table inferred that Zara customers were active and repeating customers with at least one transaction per month. They seemed develop strong brand loyalty offered by Zara.

Table 7 Distribution of Education

Education	Respondents	Percentage
High Schools/ Others	68	27.2%
Vocational	5	2.0%
Bachelor	132	52.8%
Master	35	14.0%
Doctorate	10	4.0%
Total	250	100.0%

Table 8. Transaction per month	(Period July-Dec 2015).
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Transaction per month	Respondents	Percentages
1	65	26
2-4	65	26
5-7	80	32
>7	40	16
Total	250	100

#### 4. FINDINGS AND DISCUSSION

The data has been tested against the validity and reliability test, have been done using SPSS ver. 22, with confidence level 95%. Then, in Table 9 show than Skewness and Kurtosis ration are -1,766 and 1,224, they are between range -2 and +2, it means the data is normally distributed.

Table 9. Descriptive Statistics

	Ν	Skewness		Kurtosis	
	Statis- tics	Statis- tics	Std. Error	Statis -tics	Std. Error
Unstand ardized Residual	250	-0.272	0.15	0.376	0.307

Table 10, show there is no VIF > 10, VIF Quality> 1,953 and less than 10. VIF Security and Trust between 0 and 10. All values pass the multicollinearity test [38]. Table 11, show all significant values > 0.05, it passes the heteroscedasticity test [33]. Base on Table 12 below, the Durbin-Watson shows 1,950 (between 1,65 and 2,35), confirms there is no residual errors from the observation [38]. Then Table 13 states the regression model as: Y = 0,500 + 0,235 X1 + 0,193 X2 + 0,071 X3. Table 14 show, Significant values < 0.05, the hypotheses are accepted.



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	Unstandardized Coefficients		Standardized Coefficients		<b>G</b> •	Collinearity Statistics	
Model	В	Std. Error	Beta	τ	Sig.	Tolerance	VIF
Constant	0.5	0.54		0.9	0.36		
X1- Quality	0.23	0.03	0.344	7.21	0	0.512	1.95
X2- Security	0.19	0.01	0.484	10.5	0	0.555	1.8
X3- Trust	0.07	0.02	0.14	3.21	0	0.613	1.63

#### Table 10. Multi-Collinearity Tes.

Significant at p<0.05 level\*

Dependent Variable: Y- Purchase Decision.

Table	11.	<i>Heteroscedasticity</i>	Test.

	Unstandardized Coefficients		Stan- dardized Coefficients		
Model	В	Std. Error	Beta	Т	Sig.
Constant	2.03	0.33		6.1	0
X1- Quality	-0.04	0.02	-0.17	-1.9	0.407
X2 - Security	0	0.011	-0.01	-0.1	0.894
X3 - Trust	-0.02	0.013	-0.1	-1.2	0.206

Dependent Variable: abresid а.

#### Table 12. Auto-Correlation Test.

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin- Watson
1	.845ª	0.713	0.71	1.072	1.95

Predictors: (Constant), X3-Trust, X2-Security, X1-Quality. Dependent Variable: Y- Purchase Decision.

Model			ndardized fficients
		В	Std. Error
1	(Constant)	0.5	0.549
	X1- Quality	0.235	0.033
	X2- Security	0.193	0.018
	X3- Trust	0.071	0.022

Table 13. Coefficients.

Dependent Variable: Y- Purchase Decision.

	Model	Sum of Squares	Df	Mean Square	F	Sig.
	Regression	704	3	235	204	.00ª
1	Residual	283	24	1.15		
	Total	986	24			

Significant at p<0.05 level\*

Dependent Variable: Purchase decision.



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Table 15. R Square Test.						
Model	R	R Square	Adjusted R Square	Std. Error of the Estimate		
1	.845ª	0.713	0.71	1.072		

Predictors: (Constant), X3-Trust, X2-Security, X1-Quality. Dependent Variable: Y- Purchase Decision.

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Based on Table 15 above, the Adjusted R-Square shows 71% explained by the Quality, with others 29%. T-test is used to measure the independent variables (X1-Quality, X2-Security, dan X3-Trust) and their influences on dependent variables (Y-Web Quality). Decision process is based on probability significant values. If significant values > 0.05, the hypothesis is rejected; and the hypothesis is accepted when significant values < 0.05.

The *T-test* in Table 16 below confirms with the findings, that purchasing decision has strong correlations with the web design, security and trust [43]. It can be understood that online apparel industry is still relative new and competing directly with well-established conventional vendors requires different approaches of thinking [44].

The study confirms each visual presentation (quality website) and confidence (security and

trust) is essential to drag the user's attention to influence purchasing decision [45]. Scholars addressed the important impact of visual presentation to provoke the customer's attention and lead to purchasing decision [46] [47] [48]. The confidence issues are important to ensure the consumers with limited internet knowledge ready to make online purchasing decision [49]. Internet business is still in early stage for Indonesian customers where they are experiencing with trial and alert [50][51] [52].

The online apparel business is increasing significantly along other online business, has made the traditional vendors to consider switching to their online service. Then, the overall hypotheses test are summarised in Table 17 below.

Model		Unstanda Coeffic		Standardized Coefficients	t	Sig.
		В	Std. Error	Beta	·	5 <b>-</b> 5
	(Constant)	0.5	0.54		0.9	0.3
1	X1-Quality	0.23	0.03	0.344	7.21	0.00
	X2-Security	0.19	0.01	0.484	10.5	0.00
	X3-Trust	0.07	0.02	0.14	3.21	0.00

Table 16. T-test

Significant at p<0.05 level\* Dependent Variable: Purchase decision.

<b>T</b> 11	17	TT .1 ' D 1	
Table	17.	Hypothesis Resul	ts

Hypothesis	Results
H1: web quality affects the purchase decision.	Supported
H2: web security affects the purchase decision.	Supported
H3: trust affects the purchase decision.	Supported
H4: website quality, website security and trust simultaneously affect the purchase decision.	Supported

Table 17 summarized that Zalora website was considered attractive. It can be understood since there were many transactions have been done through online stores. Zalora's online business grows along with the increasing trends of online business in Indonesia [53][43]. Zalora's products also have been perceived with high quality with ease of web access [54]. The important web quality were considered important for the customers were: ease of use, usefulness, entertainment (visual appeal), complementary relationship (enabling complete transaction online), service quality,



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innovative design, aesthetic design, information quality, consistent images, and system quality.

Many of Zalora's online customers based their preference on ease of use and usefulness features to enable them in carrying online shopping. They found the layout design was updated, interactive and informative. The interactive and eye-catching design are one of mandatory requirements for apparel industry [55] [56]. Quick response strategy provided by Zalora to its customers enabled to increase trust and confidence levels to shop in Zalora. Forza et.al. examined the importance of auick response strategy that involved organizational, management and supported with technological conditions are important factors to increase the whole textile-apparel chain [57] and by the end will increase the level of confidence of trust and security levels [58].

### 5.2. Website Security

The trust issue in online context is quite different compared to traditional business; The trust issues in online business is more dependent on the technology (or website) rather than physical interaction between buyers and sellers [59]. Interview sessions with respondents of social media shown that they agreed Zalora enabled to provide good web security management system such as: secrecy of personal data. It was shown in significant values of website security variables. The findings supported the purchasing decision in social networking sites was acceptable.

With increasing trends of education amongst youngsters and improving security management system amongst e-vendors have made internet users are getting more confidences with the security levels provided by e-vendors. Respondents perceived good web security management system enabled to promote worth-of-mouth marketing (WoM) [60] and promotion [61]. Sukma [62] examined security factor influenced significantly decision to purchase online.

One of Zara's feature concerned the respondents were pop-up ads and other promotional stuffs. Major respondents felt annoyed by these marketing campaign. Edwards et.al [63], explored the pop-up ads on the internet and come to define ads as irritating and recommend avoiding them.

Major respondents appreciated the Zalora's policy to provide full security guarantee access that enabled customers to maintain their privacy in shopping. Zalora also provides loss recovery whenever fraud transaction takes place with online purchase. This feature gets good acceptances for all Indonesian customers where privacy issues are commonly ignored [64]. The fraudulent and credit cards abuse are the common cases that can easily be found in Indonesian online transaction and many loop holes in law enforcements [65] [66]. To provide maximum security access, Zalora has cooperated with major credit card providers and ensure the customers with maximum security levels.

# 5.2 Trust

Internet business in Indonesia has started around 10 years ago, however, until now, many customers are skeptical or suspicious about the functional mechanism of online business. Trust is a complex social phenomenon reflecting technological. behavioural, social, psychological, and organizational interactions among human and nonhuman technological agents [59]. Trust mechanism helps people cope with the risks inherent in specific types of relationship [67]. Salam [67] further addressed whenever trust mechanism is built, customers tend to develop deep dependence in which customers expect certain behavior from web vendor. Web vendors will get advantages in providing more customized products and services. Major respondents agree that Zalora takes advantages of the customers through introducing more customized apparel products and services including supporting accessories.

Grabner [68] addressed the perspective of trust should be treated as potential coexisting mechanism for reducing the uncertainty and complexity of transactions and relationships in electronic markets. Grabner examined the two types of uncertainty to highlight: system-dependent and transactionspecific problems. System-dependent refers to the deep dependence of customers to the web, while transaction specific problems refer to common problems faced by Indonesian users to conduct online purchase. Major respondents agreed Zara has advantages of addressing these issues.

Mukherjee examined there is a strong positive linkage between trust and relationship commitment especially in online business [59]. Mukhrjee highlighted maintaining privacy issues to be the most significant determinant of customer trust.

# 5. CONCLUSION

Online apparel business is one of the largest business in Indonesia market, where there are increasing strong middle-class economy. Zalora as a new entrance in apparel industry has attracted

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wide customers in Indonesia, and established greater Jakarta area as its strong customer bases. As a new entrance, Zalora faces the challenging market that is developing knowledge about the online business, and needs to find a way to cope with the internet issues.

The article based the study on customer satisfaction issues, and links the factor of web quality, security and trust to the purchase decision. Those issues are the major issues faced by major Indonesian customers when dealing with internet sales. The findings of the study confirm the hypotheses that web quality, security and trust are the essential factors that affect the purchase decision. It can be understood that internet sales are still in infant stages and there is complex business environment surround Indonesian e-market places especially for the apparel industry.

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