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Factors affecting Can Tho University's brand value - approach from students

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Abstract

The study aims to identify factors influencing the brand value of Can Tho University. Research data were collected from 340 students studying at Can Tho University. By applying the exploratory factor analysis (EFA) and multivariate linear regression, the study has indicated factors putting positive impacts on Can Tho University's brand value. They are the university's reputation, training quality, graduate prospects, and alumni. In which, the training quality has the strongest influence on the brand value of the university.

Keywords: Reputation; Training quality; Brand value; Alumni

1. Introduction

The brand is a legal and intangible asset of a company (Maurya and Mishra, 2012) and is a logo of a company (Ivanovic and Collin, 2014). The brand helps reduce risks when customers buy a product or service (Assael, 1984). According to Kapferer (1994), the brand represents the identity system. The brand also creates intangible added value for the organization (Wolfe, 1993; Doyle and Stern, 2006) and builds the relationship with customers (Mckenna, 1991). The research by Sy and Phuong (2014) proved that branding in the university field helps learners distinguish one university from another, thereby supporting them make a good decision. As the competition among universities wakes up, domestic universities have to define their distinctive characteristics from international schools (Rekettye and Pozsgai, 2015). Beneke (2011) concluded that the university's branding activities raise students' awareness, improves its image and reputation.

Can Tho University was established in 1966 as the country's leading center for training, scientific research, and technology transfer. The university effectively trains and provides high-quality human resources for regional socio-economic development. Also, it is the largest scientific research center in the Mekong Delta region of Vietnam. After more than 50 years of construction, Can Tho University was ranked 3rd on the ranking web of Vietnamese universities in 2018. Moreover, it is one of three Vietnamese universities that meet the international training standards to be a member of the ASEAN University Network (AUN), along with the National University of Hanoi and the National University of Ho Chi Minh City. This study is conducted to identify and improve positive affecting factors to the brand value of Can Tho University. The research results are an important scientific basis for the university leaders to build an appropriate action plan to improve their brand value.

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2. Theoretical framework and research hypotheses

2.1. Theoretical framework

According to Erenkol and Duygum (2010), brand equity is one of the key concepts in marketing, it is considered one of the most valuable intangible assets for most companies. Parameswaran and Glowacka (1995) argued that each university needs a trustworthy brand that distinguishes it from others. University branding is essential, Hamid et al., (2012) said that the concept of university branding has not been fully developed and requires more research in this aspect. The university brand has special characteristics compared to other brand concepts. Accordingly, Bulotaite (2003) indicated that when it comes to the name of a university, it evokes associations, emotions, images, and appearances. According to Santovec (2007), a university brand is not only about a logo, a slogan, or a motto, but also the image in people's minds of that university.

2.2. Research model

According to Rivas and Domínguez (2017), reputation and prestige are two important criteria of a university's brand value in the current context. Studies by Agrey and Lampadan (2014) showed that the reputation of educational institutions positively affects learners' job opportunities. As presented by Overton-de Klerk and Sienaert (2016), a university's reputation is a significant component of the university's brand equity. Hence, the study proposes hypothesis H1: Reputation positively affects Can Tho University's brand value.

Akareem and Hossain (2016) proved that the training quality is a key factor in creating the school's brand image. In order to survive and develop, universities need to focus on the quality of training to improve student satisfaction and affirm the school's brand in the education industry. Dung et al., (2015) pointed out that the training quality impacts graduates' capacity and skills as well as the brand value of the educational institution. Therefore, the study sets the hypothesis H2: Training quality positively influences Can Tho University's brand value.

According to Thoai (2013), Agrey and Lampadan (2014), the job prospect plays an important role in students' choice of university. Luan (2015) confirmed that the university should improve students' graduate prospects, thereby enhancing the school's brand. From the perspective of Quy (2010), the training quality and reputation will be enhanced if graduates are recruited by foreign companies and multinational corporations. Thus, the authors suggest hypothesis H3: Graduate prospect positively affects the brand value of Can Tho University.

Bae et al., (2016) have said that there is a strong relationship between university brand identity and alumni support. According to Rauschnabel et al., (2016), alumni have a positive impact on a university's brand equity. In a research in 2006, McAlexander et al. have demonstrated that loyal alumni play an essential role in financial support and in building a strong university brand. The study proposes hypothesis H4 as follows: Alumni positively influence Can Tho University's brand value.

Based on the above literature review and research hypotheses, the research model of factors affecting the brand value of Can Tho University (CTU) is suggested below.

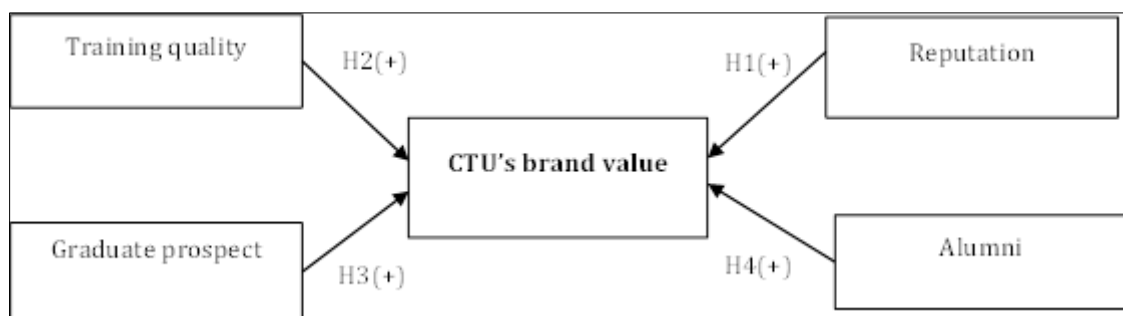


Figure 1 Proposed research model

Table 1 Interpretation of observed variables in the research model

Factor	Observed variable	Sign	Scale	Reference resources
Reputation (REP)	CTU has a long history.	REP1	Likert 1-5	Rivas and Domínguez (2017), Agrey and Lampadan (2014), Overton-de Klerk and Sienaert (2016)
	CTU always has a good reputation and image.	REP2	Likert 1-5	
	CTU's graduate output is high-quality.	REP3	Likert 1-5	
	CTU is a good brand for qualified human resources training in Vietnam.	REP4	Likert 1-5	
Graduate prospect (PRO)	CTU's graduates have high job opportunities.	PRO1	Likert 1-5	Thoai (2013), Agrey and Lampadan (2014), Luan (2015)
	CTU's graduates have high job adaptability.	PRO2	Likert 1-5	
	Recruiters highly appreciate CTU's graduates.	PRO3	Likert 1-5	
	CTU's graduates have high opportunities to get job promotion and development.	PRO4	Likert 1-5	
Training quality (QUA)	CTU's facilities are good.	QUA1	Likert 1-5	Akareem and Hossain (2016), Dung et al. (2015)
	CTU's lecturers are well-qualified and enthusiastic.	QUA2	Likert 1-5	
	CTU's staff is caring and sympathetic to the difficulties of students.	QUA3	Likert 1-5	
	CTU has innovative assessment and encouragement for students.	QUA4	Likert 1-5	
	CTU's extracurricular activities are well organized and helpful.	QUA5	Likert 1-5	
Alumni (ALU)	Alumni actively support CTU.	ALU1	Likert 1-5	McAlexander et al. (2006), Bae et al. (2016), Rauschnabel et al., (2016)
	CTU alumni always commit to the university's name and brand.	ALU2	Likert 1-5	
	CTU alumni are successful in their careers.	ALU3	Likert 1-5	
	The success of CTU alumni reflects its high quality of training.	ALU4	Likert 1-5	
Brand value (BV)	CTU is highly evaluated in the training quality.	BV1	Likert 1-5	Bulotaite (2003), Santovec (2007), Hamid et al. (2012).
	CTU students are the first choice of recruiters.	BV2	Likert 1-5	
	CTU is the first choice of students in the Mekong Delta and Vietnam.	BV3	Likert 1-5	
	CTU is the top brand in Vietnam and Southeast Asia.	BV4	Likert 1-5	
	CTU is a famous brand that is not confused with other brands.	BV5	Likert 1-5	

Source: Authors' synthetic

3. Methodology

3.1. Analytical method

The quantitative analyses used to test research hypotheses include the reliability test by Cronbach's Alpha, exploratory factor analysis (EFA), and multivariate linear regression. The process is carried out in the following order. Step 1: Using Cronbach's alpha to test the correlation among observed variables. Step 2: Using exploratory factor analysis (EFA) to

test the convergent and discriminant validity of the observed variables. Step 3: Using multivariate linear regression to test research hypotheses.

3.2. Data collection method

The study applied convenient sampling to survey 340 students studying Natural Sciences, Technology, Environment, Agriculture, Fisheries, Social Sciences, Education, Political Science, Economics, and Law. According to Hair et al. (1998), to use the EFA, the ratio of observations and the measurement variable should be 5:1. This means one measurement variable requires a minimum of five observations. Tabachnick and Fidell (2007) concluded that the ideal sample size for regression analysis is $N \geq 50 + 5*m$, where m is the number of independent variables. Therefore, the sample size meets the reliability requirement for testing research hypotheses.

4. Results and discussions

4.1. Scale reliability test

Cronbach's alpha coefficient is used to eliminate "garbage" variables. Those with corrected item-total correlation values less than 0.3 will be rejected (Nunnally, 1978; Peterson, 1994; Slater, 1995). The scale is satisfactory if its Cronbach's alpha is greater than 0.6 (Nunnally and Bernstein, 1994). Table 2 shows that the corrected item-total correlation coefficient of each variable is satisfactory (the lowest is 0.507) and all scales have high Cronbach's alpha values (the smallest is 0.829). Hence, all variables are used in the further exploratory factor analysis (EFA).

Table 2 Results of the reliability test of scale

Factor	Number of observed variables	Cronbach's alpha	Min corrected item-total correlation
Reputation	4	0.802	0.507
Training quality	5	0.819	0.562
Graduate prospect	4	0.802	0.561
Alumni	4	0.785	0.528
Brand value	5	0.829	0.547

4.2. Exploratory factor analysis (EFA)

Exploratory factor analysis (EFA) tests the convergent and discriminant validity of observed variables. In this study, EFA is carried out twice, for independent variables (reputation, graduate prospect, training quality, alumni) and the dependent variable (brand value). The first EFA result is ensured as follows: Significance level Sig. = $0.00 \leq 0.05$; KMO = 0.865 (in the range of 0.5 and 1); factor loading of observed variables are greater than 0.5; total variance explained reaches $60.15\% > 50\%$. This shows that the research data is satisfactory (Anderson and Gerbing, 1988). This result creates four factors, namely F1, F2, F3, F4. Observed variables remain in the same factors as proposed, so there is no change in factor names. Similarly, the result of EFA for the dependent variable gives the following values: Sig. is less than 0.05; $0 \leq KMO = 0.793 \leq 1$, factor loading values of variables are greater than 0.5; total variance extracted reaches $59.62\% > 50\%$. This proves that the research data is consistent (Anderson and Gerbing, 1988). As a result, the analysis creates one factor F5 named Brand value.

Table 3 Factors formed from the EFA result

Sign	Observed variable	Factor
F1	4 variables: REP1, REP2, REP3, REP4	Reputation
F2	5 variables: QUA1, QUA2, QUA3, QUA4, QUA5	Training quality
F3	4 variables: PRO1, PRO2, PRO3, PRO4	Graduate prospect
F4	4 variables: ALU1, ALU2, ALU3, ALU4	Alumni
F5	5 variables: BV1, BV2, BV3, BV4, BV5	Brand value

4.3. Multivariate linear regression

Multivariate linear regression is applied to test research hypotheses. After the EFA step, multivariate linear regression determines factors affecting Can Tho University's brand value. The result is in table 4.

Table 4 Multivariate linear regression result

Factor	Standardized coefficients	Sig.	Variance inflation factor (VIF)
Reputation	0.365	0.000	1.000
Training quality	0.376	0.000	1.000
Graduate prospect	0.342	0.000	1.000
Alumni	0.318	0.000	1.000
Adjusted R ²			48.6%
Durbin-Watson stat			1.983
Sig. ANOVA			0.000

Based on table 4, the adjusted R² value reaches 48.6% which proves that the brand value of Can Tho University is well-explained by the factors in the model. The Sig.F value of the model is much smaller than the significance level $\alpha = 5\%$, so the established regression model is significant. Durbin-Watson = 1,983 and VIF < 4 showing that there is no autocorrelation and multicollinearity. Based on the result, all independent variables are statistically significant at the level of 1% and positively impact the brand value of Can Tho University. This reveals that the university's reputation, training quality, graduate prospects, and alumni have a positive influence on its brand value. In other words, if the reputation and training quality improves, students have high graduate prospects, and alumni have a good image, the brand value of Can Tho University will be enhanced.

5. Conclusion

To conclude, the study has identified four factors that positively affect the brand value of Can Tho University, which are reputation, training quality, graduate prospects, and alumni. In particular, the quality of training has the strongest influence on the brand value of Can Tho University. Based on the research results, the study proposes several governance implications to enhance the university's brand equity. Firstly, constantly improving the training quality. Secondly, building the university's image, reputation, and prestige. Thirdly, strengthen job prospects of graduates. Fourthly, promote the pioneering role of the alumni.

Compliance with ethical standards

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Disclosure of conflict of interest

The authors declare that there are no competing or potential conflicts of interest.

Statement of informed consent

Informed consent was obtained from all individual participants included in the study.

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