



The Role of Brand Image and Customer Commitment in Mediating Service Quality Towards Customer Loyalty



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Abstract

The purpose of this study is to explain the role of brand image and customer commitment in mediating the effect of service quality on customer loyalty. The population in this study is customers at Kedonganan Village Credit Institution. The purposive sampling method has been used with 130 respondents included. Questionnaires were distributed and the result are analyzed using PLS (Partial Least Square) technique. The results of this study indicate that service quality has a positive and significant effect on brand image, customer commitment, and customer loyalty at Kedonganan Village Credit Institution. There was a significant role of brand image and customer commitment in mediating the effect of service quality on customer loyalty at Kedonganan Village Credit Institution. In order to improve brand image and customer commitment, it is hoped that Kedonganan Village Credit Institution will be able to provide faster service, attractive promotions, and technology improvement to encourage customer loyalty.

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1 Introduction

Economic development in emerging markets such as Indonesia cannot be separated from the role of various parties including the government, business actors, and institutions in the financial sector (Purwaningsih & Kusuma, 2015). Currently in Indonesia, the type of microfinance sector is very diverse. The Village Credit Institution or known as LPD in Bali is a financial institution belonging to a traditional village (Dewi et al., 2017). This institution was founded in 1985, and in 2017 the number had reached 1,443 LPDs. LPD Kedonganan is one of the LPDs in Badung Regency which is engaged in financial services. In fostering public trust, it is important to improve performance amid fierce business competition. An indication of good performance is an increased value of assets and profits from time to time. Table 1, shows the assets and profits of LPD Kedonganan from the 2016-2019 period.

Table 1
Total assets, percentage of assets, total profits dan percentage of profits of LPD Kedonganan in 2016-2019

Year	Total Assets (Rp 000)	Asset Growth (%)	Profits (Rp000)	Profits Growth (%)
2016	136.019.081	-	4.446.082	-
2017	162.478.762	19	5.095.821	14
2018	210.520.865	29	6.154.196	20,7
2019	215.780.910	2,38	7.004.560	13,8

Source: LPD Kedonganan (2019)

Table 1. shows that the assets of LPD Kedonganan in 2016 amounted to Rp. 136,019,081,000, in 2017 of Rp. 162,478,762,000 (19 percent) meaning that the assets of LPD Kedonganan in 2017 increased by 10 percent compared to assets in 2016, 2018 which amounted to Rp. 210,520,865,000 (20 percent). means that the assets of the Kedonganan LPD in 2018 have increased by 20 percent compared to 2017 assets, and in 2019 it is Rp. 215,780,910,000 (2.38 percent) meaning that the assets of the Kedonganan LPD in 2018 have increased by 2.38 percent compared to the previous year. Furthermore, the data shows, the profit of the Kedonganan LPD in 2016 was Rp. 4,446,082,000, in 2017 it was Rp. 5,095,821,000 (14 percent), in 2018 was Rp. 6,154,196,000 (20.7 percent) and in 2019 was Rp. 7,004,560,000 (13,8 percent). In absolute terms, the profits of the LPD Kedonganan have increased but relatively fluctuated. These indicate that LPD Kedonganan is less able to achieve superior performance.

Service quality is one of the factors that influence the level of consumer loyalty (Laemonta & Padmalia, 2016). Maintaining service quality and consumer loyalty is very much needed by a company engaged in the service sector (Sumertana et al, 2016). Customer commitment is a strong customer desire to maintain a long-term relationship with the company (Tahun et al., 2018). Customer loyalty can maintain and increase sales (Izogo, 2017). Research on the effect of service quality on customer loyalty has been carried out by Kusuma (2018), who found that service quality has no positive and significant effect on customer loyalty. However, different results were obtained by Fikri et al. (2016), which states that service quality has a positive and significant influence on customer loyalty. The research shows that service quality features such as assurance, reliability, physical evidence, and empathy increase customer loyalty to service providers.

Research on variables that mediate service quality on customer loyalty has been conducted by Jahanzeb et al. (2013), which uses the brand image as a mediating variable. In his research, it is stated that a well-managed brand image will produce positive consequences such as customer loyalty. Similar research has been carried out by Fullerton (2014); Parawansa (2018), which use customer commitment as a mediating variable. The higher the quality of service provided, the more the customer's commitment will arise. High customer commitment will encourage consumer loyalty to continue to use the services of the company. Companies also have to consider customer commitment and brand image to encourage customer loyalty, The marketing literature shows customer commitment as stated on Parawansa (2018), and brand image as stated on Levy & Hino (2016), must be considered as the key to forming customer loyalty. Based on the background above, in an effort to face competition as well as maintain and improve competitive position among microfinance institutions, it is important to conduct further research related to the role of brand image and customer commitment in mediating the effect of service quality on customer loyalty (Kwon & Lennon, 2009; Nyadzayo & Khajehzadeh, 2016).

Consumer loyalty reflects a deep commitment to consistently repurchase the chosen product or service in the future (Izogo, 2017). Many factors can affect customer loyalty including service quality (Gede & Sumaedi, 2013), and

customer commitment (Rather & Sharma, 2016). Customer commitment is influenced by service quality (Cater & Cater, 2010; Fullerton, 2014; Parawansa, 2018). Furthermore, customer commitment as consumer behavior to be loyal to service providers increases customer loyalty (Izogo, 2017). Several studies have found that a strong brand image increases customer loyalty (Chinomona, 2016; Ghani et al., 2018). Based on the description a conceptual framework is developed as shown in Figure 1.

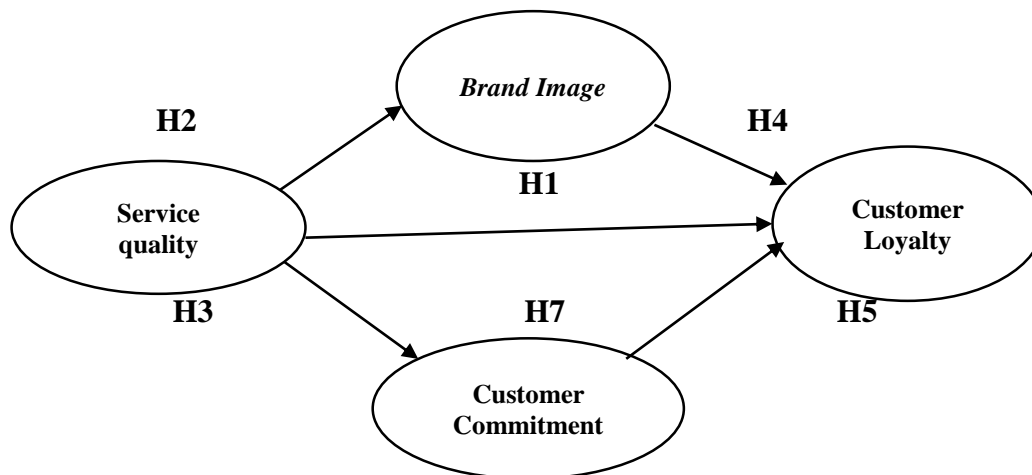


Figure 1. Conceptual framework

Source: Modified from Quach et al. (2016); Parawansa (2018); Izogo (2017); Chinomona (2016)

Service quality is considered a critical success element in the modern service business and a prerequisite for achieving a sustainable competitive advantage Akroush et al. (2015). Empirically, previous research has confirmed that service quality has a positive effect on customer loyalty (Aryani & Rosinta, 2011; Gede & Sumaedi, 2013).

H1: Service Quality has a positive and significant effect on Customer Loyalty.

The company's ability to provide high-quality products is a tool for creating a strong brand image (Mukerjee, 2018). Quality services such as guarantees, physical facilities, and empathy for customers create positive customer perceptions of product brands (Chen, 2015). High service quality improves the company's brand image in the minds of consumers.

H2: Service Quality has a positive and significant effect on Brand Images.

According to Moorman et al. (1993), customer relationship commitment is the customer's desire to maintain a valuable relationship. Dash et al. (2009), argue that a relationship is valued when the relationship is considered important. The literature explains that service quality has a significant positive effect on customer commitment (Al-Hawari, 2011; Fullerton, 2014).

H3: Service Quality has a positive and significant effect on Customer Commitment

Brand image as an authentic concept shows the customer's deep commitment to a particular brand that affects customer loyalty to that product brand. Research conducted at shopping malls in South Africa shows that customers tend to be able to form brand images based on their inferences obtained from marketing stimuli, their environment, and experiences (Chinomona, 2016). The results of an empirical study conducted by Saputra (2013), we're able to show evidence that brand image has a positive effect on customer loyalty at BNI 46 bank in Surabaya.

H4: Brand Image has a positive and significant effect on Customer Loyalty

Loyalty is a deeply held customer commitment to consistently repurchase satisfying products/services in the future (Oliver, 1999). According to Caceres & Paparoidamis (2007), although commitment and loyalty are related, they are

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two different concepts. There is already literature that provides theoretical and empirical support regarding the relationship between commitment and customer loyalty (Izogo, 2017). Providing quality services to maintain customer commitment to remain with the company will increase customer loyalty and market share (Caceres & Paparoidamis, 2007; Rather & Sharma, 2016).

H5: Customer commitment has a positive and significant effect on Customer Loyalty.

Chen (2015), in his research on the effect of brand equity on brand loyalty in the higher education industry in Taiwan, stated that brand image is a dimension of brand equity that has a significant positive effect on consumer attitudes to be loyal to the brand. A brand image consisting of symbolic brand image, functional brand image, and experiential brand image each has a positive and significant effect on consumer loyalty to the brand (Chinomona, 2016). Brand image is a key factor to increase consumer loyalty to a brand. Service quality (SQ) can improve the brand image (Chen et al., 2008). The mediating role of brand image in the relationship between service quality and customer loyalty

H6: Brand Image significantly mediates the effect of Service Quality on Customer Loyalty.

Research believes that customer loyalty is based on customer commitment (Cater & Cater, 2010). When customers perceive high service quality, the customer's commitment to voluntarily continue to be with the service provider will be high. Parawansa (2018) on BPR in Makassar found that service quality significantly affects customer commitment. Furthermore, customer commitment raises attitudes for retention and recommends service providers to other parties (Hazra & Srivastava, 2009).

H7: Customer Commitment significantly mediates the effect of Service Quality to Customer Loyalty

2 Materials and Methods

This study covers the relationship between the constructs variables of service quality, brand image, customer commitment, customer loyalty, and the role of brand image and customer commitment in mediating the effect of service quality on customer loyalty in LPD Kedonganan customers. The subjects in this study are people who have become customers and have used their services.

Service quality (X) is the independent variable in this study. Service quality indicators were adapted from research conducted by Parasuraman et al. (1998); Izogo (2017), and divided into several indicators such as Physical Evidence, Assurance, Reliability, Concern, and Responsiveness. Brand image (Y1) is the mediating variable where the indicators were adapted from research conducted by Hamel & Prahalad (2000), which are Recognition, Attractiveness, Consumer top of minds, and Reputation. Customer commitment (Y2) is also the mediating variable with indicators adopted from Izogo (2017), feelings the emotional attachment to service providers, Partnering with service providers, and being able to be identified by service providers. Customer loyalty (Y) is the dependent variable in this study. Customer Loyalty Indicators were adapted from research conducted by Hazra & Srivastava (2009), which are continuity using behavior, recommendations to other parties, considered repeat visits, and refuse attractive offers from competing service providers.

The type of data used is qualitative data, an overview of the Village Credit Institution (LPD) of Kedonganan Village. The quantitative data in this study is the age of the respondents, data on the development of the LPD in 2016 – 2019, and respondents' opinions on statements that include service quality, brand image, customer commitment, and customer loyalty. There were 26 indicators, and a good sample size range was $80 \leq n \leq 160$. Based on this range, taking into account the available resources, this study determined a sample size of 130 people. This number is considered to be representative of the population (Martínez & Del Bosque, 2013; Fullerton, 2005).

This study uses mediation analysis in SEM-PLS with the Variance Accounted For (VAF) method starting with testing the significance of the direct effect (service quality on customer loyalty) without including mediating variables (brand image and customer commitment) in the SEM-PLS model. When the direct effect is significant, the work motivation variable is entered into the SEM-PLS model and tested for the indirect effect. If the VAF value is above 80%, it indicates a full mediation role. If the VAF is between 20% - 80%, it can be categorized as partial mediation. However, if the VAF is less than 20%, there is no mediating effect (Sholihin & Ratmono, 2021).

3 Results and Discussions

Tabel 2
Respondent characteristic

No	Respondent Characteristic	Classification	Total	Percentage %
1	Sex	Male	73	56.2
		Female	57	43.8
	Total		130	100
2	Age (years)	17 – 24	41	31.5
		25 - 34	51	39.2
		35 - 44	11	8.5
		45 - 54	19	14.6
		> 55	8	6.2
	Total		130	100
3	Education	Junior High School	12	9.2
		Senior High School	64	49.2
		Univesity	31	23.8
		Others	23	17.7
Total		130	100	
4	Occupation	Civil Servant	7	5.4
		Private Employee	9	6.9
		Entrepreneur	47	36.2
		Student	43	33.1
		Housewife	24	18.5
Total		130	100	

Validity testing is a measure of how strong a tool performs its sizing function. Validity test results show that all question items show the value of $r_{\text{count}} \geq r_{\text{standard}}$ (0.3) at a significance value of 5 percent, it can be explained that all construct indicators in this study are valid and can be used as research instruments.

Table 3
Reability test result

No	Construct	Cronbach Alpha	Information
1	Service quality	0,878	Reliable
		0,931	Reliable
		0,938	Reliable
		0,964	Reliable
		0,927	Reliable
2	Brand Image	0,975	Reliable
		0,965	Reliable
3	Customer Commitment	0,968	Reliable
4	Customer Loyalty	0,963	Reliable

A reliability test is to measure the consistency of an instrument. The results of the reliability test can be seen in Table 3. Based on Table 3. it can be seen that the Cronbach Alpha of all instruments is greater than 0.6. An indicator of a construct is said to be valid if the cross-loading value of each indicator of the construct in question is greater than the cross-loading of other construct indicators. Table 4. show the Cross Loading result.

Table 4
Cross loading result

Construct	Indicators	Service quality	Physical evidence	Guarantee	Reliability	Concern	Responsiveness	Brand Image	Customer Commitment	Customer Loyalty
Service quality	LPD Kedonganan have a comfortable service room	0.800	0.901	0,734	0,757	0,746	0,715	0,731	0,724	0,755
	LPD Kedonganan have a right room composition	0.895	0.933	0,839	0,853	0,858	0,821	0,854	0,865	0,875
	LPD Kedonganan staff apperance is neat.	0.916	0.910	0,872	0,881	0,861	0,879	0,858	0,844	0,844
	LPD Kedonganan staff put a sympathy on custome	0.887	0,828	0.927	0,851	0,818	0,837	0,842	0,804	0,809
	I feel safe to make a transaction in LPD Kedongan	0.906	0,823	0.958	0,869	0,834	0,869	0,877	0,872	0,863
	I trust LPD Kedonganan.	0.896	0,860	0.922	0,865	0,816	0,846	0,869	0,861	0,861
	LPD Kedonganan fulfill their promise	0.907	0,857	0,864	0.936	0,844	0,855	0,875	0,865	0,858
	LPD Kedonganan is reliable	0.928	0,871	0,878	0.953	0,866	0,890	0,886	0,879	0,878
	LPD Kedonganan give accurate information	0.901	0,846	0,860	0.937	0,853	0,831	0,859	0,851	0,844
	LPD Kedonganan quickly respond my request	0.881	0,843	0,794	0,821	0.938	0,840	0,847	0,822	0,854
	LPD Kedonganan provide consultation	0.888	0,830	0,791	0,836	0.940	0,867	0,869	0,860	0,842
	LPD Kedonganan handle customer wholeheartedly	0.942	0,871	0,893	0,901	0.947	0,910	0,946	0,906	0,916
	LPD Kedonganan quickly respond my question	0.897	0,814	0,856	0,828	0,880	0.928	0,882	0,868	0,890
	LPD Kedonganan staff pay attention on customer	0.928	0,846	0,880	0,883	0,879	0.966	0,920	0,903	0,893
	LPD Kedonganan staff kindly greeting the custome	0.906	0,842	0,837	0,869	0,866	0.937	0,906	0,855	0,869
Brand Image	LPD Kedonganan is well-known brand	0,928	0,865	0,888	0,887	0,903	0,912	0.949	0,910	0,897
	LPD Kedonganan have a strong attractiveness	0,887	0,809	0,837	0,843	0,888	0,882	0.931	0,868	0,874
	LPD Kedonganan brand is easy to remember	0,908	0,831	0,862	0,881	0,880	0,908	0.950	0,893	0,907
	LPD Kedonganan have a good reputation	0,931	0,871	0,895	0,892	0,898	0,914	0.950	0,916	0,927
Customer Commitment	I am emotionally attracted with LPD Kedonganan.	0,915	0,879	0,859	0,878	0,890	0,889	0,912	0.962	0,944
	I have partnership with service provider namely LPD Kedonganan.	0,915	0,852	0,882	0,887	0,880	0,892	0,922	0.968	0,924
	I liked when my personal data are easily identified by LPD Kedonganan.	0,911	0,838	0,869	0,887	0,879	0,899	0,908	0.958	0,911
	I will continually use LPD Kedonganan service	0,922	0,881	0,880	0,891	0,880	0,897	0,914	0,924	0.965
Customer Loyalty	I will recommend LPD Kedonganan to friend or LPD Kedonganan is into consideration when looking for business partner	0,879	0,830	0,831	0,828	0,860	0,871	0,901	0,887	0.941
	I refuse any offers from other financial institution	0,927	0,872	0,875	0,888	0,911	0,906	0,911	0,929	0.963
		0,921	0,875	0,866	0,886	0,892	0,908	0,924	0,941	0.957

Based on Table 4. the correlation of service quality construct (X1) with its indicators is higher than the correlation with the indicators of brand image (Y1), customer commitment (Y2), and customer loyalty (Y3). The correlation of brand image constructs (Y1) with its indicators is higher than the correlation with indicators of service quality (X1), customer commitment (Y2), and customer loyalty (Y3). Furthermore, the correlation of the construct of customer commitment (Y2) with its indicators is higher than the correlation with indicators of service quality (X1), brand image (Y1), and customer loyalty (Y3). The correlation of customer loyalty (Y3) with its indicators is higher than the correlation with indicators of service quality (X1), brand image (Y1), and customer commitment (Y2).

Another method to assess discriminant validity is to compare the square root of the average variance extracted (\sqrt{AVE}) for each variable with the correlation between construct and other constructs in the model. The model has sufficient discriminant validity if the square root of the AVE for each variable is greater than the correlation between constructs and other constructs in the model (Cossío-Silva et al., 2016; Yee et al., 2010).

Table 5
Square root comparison between average variance extracted with latent variable correlations

Construct	AVE	AVE Root	Correlation								
			X1.1	X1.2	X1.3	X1.4	X1.5	X1	Y1	Y2	Y3
Physical Evidence (X1.1)	0.837	0.914	1.000	0.909	0.912	0.927	0.965	0.965	0.922	0.962	0.954
Guarantee (X1.2)	0.876	0.935	0.884	1.000	0.920	0.879	0.936	0.958	0.927	0.949	0.904
Reliability (X1.3)	0.888	0.942	0.894	0.920	1.000	0.907	0.957	0.968	0.944	0.890	0.936
Concern (X1.4)	0.886	0.941	0.911	0.879	0.907	1.000	0.884	0.961	0.949	0.928	0.902
Responsiveness (X1.5)	0.891	0.943	0.901	0.904	0.918	0.917	1.000	0.949	0.967	0.904	0.913
Service quality (X1)	0.808	0.898	0.890	0.958	0.968	0.961	0.909	1.000	0.954	0.918	0.926
Brand image (Y1)	0.893	0.944	0.954	0.902	0.913	0.926	0.912	0.954	1.000	0.917	0.962
Customer commitment (Y2)	0.927	0.962	0.904	0.922	0.927	0.944	0.927	0.967	0.893	1.000	0.954
Customer loyalty (Y3)	0.915	0.956	0.893	0.894	0.911	0.901	0.928	0.954	0.957	0.949	1.000

Based on Table 5. it can be concluded that the AVE root value of the service quality construct (X1) is 0.898, greater than the correlation between latent variables and other constructs besides service quality (X1). The AVE root value of the physical evidence construct (X1.1) is 0.914, greater than the correlation between latent variables and other constructs besides physical evidence (X1.1). The AVE root value of the Guarantee construct (X1.2) is 0.935, greater than the correlation between the latent variables and other constructs besides the Guarantee (X1.2). The root value of the reliability construct AVE (X1.3) is 0.942, greater than the correlation between latent variables and other constructs besides reliability (X1.3). The AVE root value of the caring construct (X1.4) is 0.941, greater than the correlation between latent variables and other constructs besides caring (X1.4). The root value of the responsiveness construct AVE (X1.5) is 0.943, greater than the correlation between latent variables and other constructs besides responsiveness (X1.5). The AVE root value of the brand image construct (Y1) is 0.944, greater than the correlation between latent variables and other constructs besides brand image (Y1). Furthermore, the AVE root value of the customer commitment construct (Y2) is 0.962, which is greater than the correlation between latent variables and other constructs besides customer commitment (Y2). The AVE root value of the customer loyalty construct (Y3) is 0.956, greater than the correlation between latent variables and other constructs besides customer loyalty (Y3).

Hypothesis testing regarding the role of brand image and customer commitment in mediating the effect of service quality on customer loyalty be seen in Table 5. and Figure 2. as follows:

Table 6
Path coefficients

Construct	Correlation Coef.	Std. Error	t Statistics	p Values	Information
Service quality (X1) → Customer loyalty (Y3)	0,243	0,119	2,043	0,042	Significant
Service quality (X1) → Brand image (Y1)	0,967	0,005	196,907	0,000	Significant
Service quality (X1) → Cust. commitment (Y2)	0,949	0,007	127,266	0,000	Significant
Brand image (Y1) → Customer loyalty (Y3)	0,248	0,149	1,667	0,096	Not significant
Cust. Commitment (Y2) → Customer loyalty (X1)	0,497	0,106	4,707	0,000	Significant

Table 6. shows that the direct effect of each variable. It shows that there is a significant direct effect of service quality on customer loyalty, service quality to brand image, service quality to customer commitment, and customer commitment to customer loyalty. It also shows that brand image does not significantly have a direct effect on customer loyalty (Darmayasa & Yasa, 2021; Devi & Yasa, 2021).

Table 7
Indirect effect and VAF calculation of brand image

Variabel	Indirect effect		
	Coef.	t Statistics	p Values
Service quality → Brand Image → Customer Commitment	0.239	1,663	0,097
Variabel			
Service quality → Brand Image → Customer Commitment	0.248	1.667	0.096
VAF			
indirect effect / total effect (0,239 / 0,248)	0,963		

Based on data presented in Table 7. brand image as a mediating variable has a VAF value of 0.969 (96.3%), it can be concluded that brand image has a fully mediating role in the relationship between the influence of service quality on customer loyalty

Table 8
Indirect effect and VAF calculation of customer commitment

Variabel	Indirect effect		
	Coef.	t Statistics	p Values
Service quality → Customer commitment → Customer loyalty	0,472	4,712	0,000
Variabel			
Service quality → Customer commitment → Customer loyalty	0.497	4.707	0,000
VAF			
indirect effect / total effect(0,472 / 0,497)	0,950		

Based on the data presented in Table 8. customer commitment as a mediating variable has a VAF of 0.950 (95.0%). So it can be concluded that customer commitment has a fully mediating role in the relationship between service quality and customer loyalty (Giovanis et al., 2014; Auh et al., 2007).

4 Conclusion

Based on the research results it can be explained that the influence of the exogenous construct (X) which consists of service quality on the endogenous construct (Y), namely brand image, customer commitment, and customer loyalty, are as follows. The estimation results of the structural model as presented in Table 6. show that hypothesis testing on the effect of service quality on customer loyalty produces a correlation coefficient of 0.243. The value of t statistics obtained is 2.043 and the value of p values is 0.042 (<0.05). These results indicate that service quality has a positive and significant effect on customer loyalty.

The estimation results of the structural model as presented in Table 6. show that hypothesis testing on the effect of service quality on a brand image produces a correlation coefficient value of 0.967. The value of t statistics is 196.907 and the value of p values is 0.000 (<0.05). These results indicate that service quality has a positive and significant effect on brand image. The estimation results of the structural model as presented in Table 6. show that hypothesis testing on the influence of customer quality on customer commitment produces a correlation coefficient value of 0.949. The t-Statistics value is 127.266 and the p-value is 0.000 (<0.05). These results indicate that service quality has a positive and significant effect on customer commitment.

The estimation results of the structural model as presented in Table 6. show that the effect of brand image on customer loyalty produces a correlation coefficient of 0.248. The value of t Statistics is 1.667 and the value of p values is 0.096 (<0.05). This shows that brand image has a positive and significant effect on customer loyalty. The estimation results of the structural model as presented in Table 6. show that hypothesis testing on the effect of customer commitment on customer loyalty produces a correlation coefficient value of 0.497. The value of t Statistics is 4.707 and the value of p values is 0.000 (<0.05). These results indicate that customer commitment has a positive and significant effect on customer loyalty.

The estimation results of the structural model presented in Table 7. show that hypothesis testing of the brand image mediates the effect of service quality on customer loyalty produces a correlation coefficient value of 0.239. The value of t statistics is 1.663 and the p-value is 0.097 (<0.05). These results indicate that brand image mediates the effect of service quality on customer loyalty. The estimation results of the structural model presented in Table 8. show that the hypothesis testing of customer commitment mediates the effect of service quality on customer loyalty resulting in a correlation coefficient of 0.472. The value of t statistics is 4.712 and the p-value is 0.000 (<0.05). These results indicate that customer commitment mediates the effect of service quality on customer loyalty.

In order to increase customer loyalty, LPD Kedonganan needs to improve their service quality continually by giving excellent service, quick and accurate responses, having empathy, and always listening to customers regarding the LPD performance. Commitment can also be interpreted as a customer's desire that lasts for a long time to maintain a profitable relationship with the company. In addition, things that need to be considered are also continuing to develop other offices around the Kedonganan village so that all communities can be served so that later it will be able to increase customer loyalty at the LPD Kedonganan.

Conflict of interest statement

The authors declared that's they have no competing interests.

Statement of authorship

The authors have a responsibility for the conception and design of the study. The authors have approved the final article.

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