

Analysis of Service Quality on User Satisfaction in BPJS Kesehatan Website

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ARTICLE HISTORY	A B S T R A C T
Received: 15 July 24 Final Revision: 28 September 24 Accepted: 16 October 24 Online Publication: 31 December 24	BPJS Kesehatan plays a vital role in providing health insurance to millions of Indonesians, making it essential to assess the quality of service on their website to ensure efficient and accessible healthcare delivery. This study evaluates of service quality on user satisfaction with the
Healthcare Organizations, Regression Analysis, Service Quality, User Satisfaction, Website	BPJS Kesehatan website by analyzing 10 hypotheses related to information quality, system usability, and service effectiveness. The research employed a quantitative approach, utilizing a structured questionnaire and regression
CORRESPONDING AUTHOR	analysis with data from 32 respondents. Significant findings include a strong positive effect of service quality on system
14220024@nusamandiri.ac.id	use ($\beta = 0.928$, p = 0.002) and a notable impact of system use
DOI	value of 0.796 indicates that nearly 80% of the variance in
10.37034/medinftech.v2i4.56	net benefits is explained by the predictors, demonstrating that improved service quality and increased system use substantially enhance user satisfaction and perceived benefits. These results underscore the importance of focusing on service quality and user engagement to optimize outcomes from the BPJS Kesehatan website.

1. Introduction

Healthcare organizations increasingly rely on data driven approaches to enhance decision making processes and improve services delivery. In this context, understanding the factors that influence user satisfaction and operational efficiency through web platforms such as the BPJS Kesehatan website is crucial [1]. BPJS Kesehatan, Indonesia's national health insurance agency, is vital in providing healthcare In this study, the DeLone and McLean Information services to millions, and its website is the focus of this Systems Success Model is applied to evaluate how study because it serves as a critical interface for users service quality impacts user satisfaction with the BPJS to access essential health information and services, Kesehatan website. The DeLone and McLean Model is making its effectiveness and user satisfaction crucial a model that is used to measure the success of an for public health outcomes.

This study focuses on exploring these relationships using a structured questionnaire and regression analysis, aiming to provide insights into how information quality, system usability, and service effectiveness impact user satisfaction and net benefits.

The BPJS Kesehatan website serves as a critical dimension encompassing aspects like responsiveness, information hub for healthcare services in Indonesia, reliability, and support provided to users and its direct offering a range of functionalities from basic influence on how satisfied users are with their information dissemination to interactive user services experience on the BPJS Kesehatan website. By

[2]. Ensuring that this platform meets user needs and expectations is pivotal for enhancing its utility and effectiveness in delivering healthcare-related information and services efficiently. Therefore, examining the quality of information provided, the usability of the website, and the effectiveness of customer service becomes imperative to gauge user satisfaction accurately [3].

information system according to the user's views [4]. The model serves as a comprehensive framework for assessing the success of information systems by examining key dimensions such as system quality, information quality, and service quality, which are crucial in determining user satisfaction [5]. Specifically, this study focuses on the service quality

leveraging the DeLone and McLean model, the Population in this study consists of all users of the research aims to provide actionable insights into BPJS Kesehatan website in Indonesia. The research improving the website's service quality to enhance sample is selected using purposive sampling technique, overall user satisfaction and the perceived benefits of with inclusion criteria being users who have used the the platform.

Methodologically, this study employs a quantitative approach utilizing a structured questionnaire designed to capture perceptions and experiences of website users The selection of 32 respondents aligns with current [6]. The questionnaire includes items that assess guidelines recommending a minimum of 30 different facets of information quality, system usability, participants to achieve statistically valid and reliable service quality, user satisfaction, and perceived net results in quantitative research. This sample size allows benefits [7]. Data collected from respondents will be for the use of parametric tests and enhances the analyzed using statistical techniques such as regression accuracy and generalizability of the findings [11]. analysis in SPSS to test hypothesized relationships and validate the proposed theoretical models [8].

assess the impact of information quality, system McLean Information Systems Success Model was usability, and service effectiveness on user satisfaction chosen over other evaluation models because it offers a with the BPJS Kesehatan website and secondly, to well-established, holistic approach to evaluating both explore how user satisfaction translates into perceived technical and user-centric aspects of information net benefits such as improved efficiency and better systems, making it particularly suitable for assessing decision making in healthcare related tasks [9]. By the multifaceted performance of the BPJS Kesehatan achieving these objectives, this study aims to contribute website [12]. The DeLone and McLean model is a empirical evidence that informs strategies for widely optimizing web-based healthcare platforms to better information system success, making it ideal for serve user needs and enhance overall healthcare assessing the effectiveness of the BPJS Kesehatan delivery efficiency.

The findings of this research are expected to provide actionable insights for healthcare policymakers, website developers, and service providers to improve the design, functionality, and service delivery of webbased healthcare platforms. Ultimately, enhancing user satisfaction and maximizing net benefits through improved information dissemination and service efficiency can potentially lead to better health outcomes and increased user engagement with healthcare services in Indonesia.

2. Research Method

This study aims to analyze user satisfaction with the 3 BPJS Kesehatan website by testing 10 hypotheses. The research methodology will include the research design, 4 population and sample, research instruments, data collection procedures, and data analysis methods. BPJS 5 Kesehatan is Indonesia's national health insurance provider, serving a vast and diverse population with a_ critical need for accessible healthcare services. The The research instrument can be divided into 10 website is a primary touchpoint for users seeking information and services, making it crucial to evaluate its quality to ensure it meets the needs of its millions of users efficiently and effectively.

method. The research design employed is explanatory experience, as well as identify significant relationships research to test the causal relationships between between these variables to provide a more independent and dependent variables [10].

BPJS Kesehatan website at least twice in the past three months. The target sample size is 32 respondents to ensure the validity and reliability of the study results.

The research instrument used is a questionnaire designed based on the DeLone and McLean The objectives of this research are twofold. Firstly, to Information Systems Success Model. The DeLone and recognized framework for evaluating website. By examining factors such as system quality, information quality, and user satisfaction, the model provides a comprehensive approach to understanding the overall performance and impact of the website [13]. The questionnaire consists of several sections, which are summarized in Table 1. This table outlines the variables measured, along with their respective explanations:

Table 1. The Research Instrument

No.	Variables	Explanation
1	Information	Measures the quality of information
1	Quality (IQ)	provided by the website.
2	System Quality	Measures the efficiency and technical
2	(SQ)	performance of the website.
3	Service Quality	Measures the quality of support and
	(ServQ)	services provided
1	User Satisfaction	Measures the frequency and intensity of
4	(US)	website usage.
5	System Use (SU)	Measures the frequency and intensity of
5	System Use (SU)	website usage.
6	Not Popofits (NP)	Measures the benefits perceived by
0	Net Delients (IND)	users after using the website

hypotheses because each component affects different dimensions of user interaction with the system. By segmenting these influences into separate hypotheses, the study can thoroughly evaluate how each quality This study uses a quantitative approach with a survey element impacts the final outcomes of the user comprehensive understanding of the factors influencing the effectiveness and benefits of the system [14]. These hypotheses are detailed in Table 2:

	Table 2. The Research Hypotheses	Hypotheses ID	Q ID	Questionnaire
Hypotheses ID	Explanation			expectations.
H1	There is a significant effect of information quality	H5	Q9	BPJS Kesehatan quickly responds to issues.
H2	There is a significant effect of information quality	Н5	Q11	I feel helped by the BPJS Kesehatan customer service.
H3	(IQ) on user satisfaction (US). There is a significant effect of system quality	Н5	Q12	I frequently use the BPJS Kesehatan website.
H4	(SQ) on system use (SU). There is a significant effect of system quality	H6	Q10	The technical support or customer service of BPJS Kesehatan provides effective
н5	(SQ) on user satisfaction (US). There is a significant effect of service quality		-	solutions. I feel comfortable using the BPJS Kesehatan
115	(ServQ) on system use (SU). There is a significant effect of service quality	H6	Q16	website.
H6	(ServQ) on user satisfaction (US).	H6	Q18	better health decisions.
H7	user satisfaction (US).	H7	Q13	I routinely use the main features of the BPJS Kesehatan website.
H8	There is a significant effect of system use (SU) on net benefits (NB).	H7	Q14	I agree with the experience of using the BPIS Keeshatan wabsite
H9	There is a significant effect of user satisfaction (US) on net benefits (NB).	H8	Q12	I frequently use the BPJS Kesehatan
H10	There is a significant effect of system use (SU) on net benefits (NB).	H8	Q17	The BPJS Kesehatan website helps improve my work efficiency.
Data collec	ction is conducted online through the	H9	Q15	The BPJS Kesehatan website meets my

Data collection is conducted online through the H9 distribution of questionnaires using digital survey H9 platforms. The questionnaires will be disseminated via social media, email, and BPJS Kesehatan user forums H10 to reach the target sample. Respondents will be provided with a brief explanation of the research Each variable is measured using a 5-point Likert scale, objectives and assurance of data confidentiality.

There are 20 questionnaires, with each hypothesis containing one unique questionnaire, except for Q3, This research methodology integrates a quantitative which is included in H1, H5, and H8; Q13, which is approach with statistical analysis using SPSS software. included in H3 and H7; Q14, which is included in H2 and H7; and Q15, which is included in H4 and H9. This respondents who use the BPJS Kesehatan website. ensures comprehensive coverage and validation across all hypotheses while maintaining relevance and specificity for each hypothesis tested [14]. These questionnaires and their mapping to hypotheses are shown in Table 3:

Table 3. Questionnaire (Q)

Hypotheses ID	Q ID	Questionnaire
H1	Q1	The information provided by the BPJS
	-	Kesehatan website is accurate.
H1	03	The information provided by the BPJS
	C ¹	Kesehatan website is relevant to my needs.
H1	012	I frequently use the BPJS Kesehatan
111	Q12	website.
uэ	02	The information provided by the BPJS
Π2	Q2	Kesehatan website is complete.
112	04	The information on the BPJS Kesehatan
H2	Q4	website is easy to understand.
	014	I agree with the experience of using the
H2	Q14	BPJS Kesehatan website.
H3	05	The BPJS Kesehatan website is easy to use.
		The BPJS Kesehatan website functions well
H3	Q6	without many interruptions
		I routinely use the main features of the BPIS
H3	Q13	Kesehatan website
		The BPIS Kesehatan website has an
H4	Q7	attractive appearance
		The BDIS Kesehatan website loads pages
H4	Q8	anieldy
114	015	quickly. The DDIS Keeshsten website meets my
П4	619	The DFJS Resenatan website meets my

Kesehatan website. The BPJS Kesehatan website helps me save O20 time in accessing health information. ranging from 1 (strongly disagree) to 5 (strongly agree) [15].

I feel a positive impact from using the BPJS

expectations.

019

The data collected consists of survey results from 32 Each respondent completed questionnaires designed to measure variables related to the research hypotheses.

Firstly, validity testing was conducted to evaluate each question in the questionnaire using significance values (p-values). Questions were considered valid if their pvalue was less than 0.05, indicating significant correlation with the measured variables [16]. Subsequently, reliability testing was performed by calculating Cronbach's Alpha to measure the overall internal consistency of the questionnaire. The questionnaire was deemed reliable if Cronbach's Alpha exceeded 0.700 [17].

Regression analysis was conducted to identify the relationships between predictor variables (T1 to T8) and the dependent variable (T9). The variable T1-T9 represents the total score of each questionnaire based on hypotheses consisting of multiple questions. This regression analysis helped to understand the strength of the relationship between predictor variables and the dependent variable within the context of the study. Finally, an F-test using ANOVA was employed to test the overall significance of the regression model. The regression model was considered significant if its pvalue was less than 0.05, indicating that at least one of the predictor variables significantly influenced the

dependent variable [18]. T-tests were also conducted to Since the significance values are consistently below the evaluate the significance of each predictor variable threshold, we can be confident in the accuracy and individually in the regression model [19]. This validity of our data. This foundational validity ensures methodology was designed to provide a comprehensive that subsequent reliability testing will yield meaningful understanding of the factors influencing user and trustworthy results, providing a robust basis for our satisfaction and net benefits from using the BPJS analysis. Kesehatan website.

This methodology, it is expected that the research can provide a clear picture of the factors affecting user satisfaction with the BPJS Kesehatan website and offer recommendations for further improvements. The results of this study can also contribute to the literature on The Case Processing Summary in SPSS, as shown in evaluating health information systems in Indonesia.

Result and Discussion 3.

The research by Deu et al., the study investigated the impact of service quality on public satisfaction among BPJS healthcare users at Kabila Public Health Center, revealing that service quality has a positive influence on user satisfaction, with an R Square value of 0.630 indicating that 63% of satisfaction can be attributed to service quality improvements. The research, which involved 50 respondents and utilized quantitative methods, concluded that while service quality is a significant factor, the remaining 37% of satisfaction is influenced by other variables such as awareness, regulation, organization, income, skill and ability, and service facilities. Overall, the findings emphasize the importance of enhancing service quality to improve public satisfaction among BPJS users, while also acknowledging the role of additional factors in this relationship [20].

In this study, total number of respondents in this study is 32, representing a significant sample size for conducting statistical analyses. The validation tests performed in SPSS are crucial to ensure the reliability and accuracy of the collected data. These tests assess various aspects such as the consistency of responses, the appropriateness of measurement scales, and the absence of systematic errors in data entry or processing. By validating the data through SPSS, we verify that our findings are based on sound and reliable information, enhancing the credibility and robustness of our research outcomes. This rigorous validation process helps to minimize biases and errors, thereby providing a solid foundation for drawing meaningful conclusions and insights from the study.

Table 4. Validity

	Q1	Q2	-	Q20
Signification	< 0.01	< 0.01	-	< 0.01

If the significance (p-value) is less than 0.05, then the data is considered valid. In our study, the significance values for questions Q1 through Q20 were all below 0.05. This indicates that all data points are valid, which allows us to proceed with the reliability test.

Table 5. Case Processing Summary

Cases	Ν	%
Valid	32	100.0
Excluded	0	0.0
Total	32	100.0

Table 5, reveals that all 32 respondents in the study were successfully processed, representing 100% of the total sample. There were no cases excluded from the analysis, highlighting the completeness and integrity of our dataset. This comprehensive inclusion of all respondents ensures that our statistical analyses are based on a representative sample, maximizing the reliability and generalizability of our findings. The absence of excluded cases also underscores the careful attention given to data collection and management, reinforcing the validity and robustness of our research methodology. These factors collectively contribute to the credibility and trustworthiness of our study's outcomes and interpretations.

The Reliability Statistics, as presented in Table 6, demonstrate the reliability of the survey instrument used in this study.

Table 6. Reliabilit	y Statistics
Cronbach's Alpha	N of Items
940	20

A Cronbach's Alpha value exceeding 0.700 indicates reliability [25]. In the context of this study, our Cronbach's Alpha coefficient measures at 0.940, indicating a high level of internal consistency among the survey items. This reliability coefficient suggests that the items in our questionnaire are closely related and consistently measure the constructs they intend to assess. A Cronbach's Alpha of 0.940 signifies strong reliability, affirming that our research instruments are dependable for measuring the variables under investigation. This high level of internal consistency enhances the confidence in our study's findings and supports the validity of our research outcomes.

The ANOVA results, as shown in Table 7, provide the significance of the regression model used in this study.

Table 7. ANOVA (F-TEST)

Model	Sum of Square	Df	Maen Square	F	Sig.
Regression	55.309	9	6.145	9.548	<.001
Residual	14.159	22	.644		
Total	69.469	31			

The ANOVA table provides the results of the F-test, which assesses the overall significance of the

H3, H4, H5, H7, H8, H9, H10 and dependent variable statistically significant. is H6. The regression sum of squares (55.309) represents the variation explained by the model, while the residual sum of squares (14.159) indicates the variation unexplained by the model. With 9 degrees of freedom (df) for the regression and 22 for the residual, the mean square for the regression (6.145) is substantially higher than the mean square for the residual (0.644). The F-value of 9.548, with a significance level (Sig.) of <0.001, is well below the 0.05 threshold, indicating that the regression model is statistically significant. This means that the combined effect of the predictors (H1, H2, H3, H4, H5, H7, H8, H9, H10) significantly explains the variability in the dependent variable (H9), confirming that the model provides a good fit for the data.

The detailed results of the multiple regression analysis are summarized in Table 8.

Model	Unstandardized Coefficients		Std. Coefficients	t	Sig
	В	Beta	Beta		
(Constant)	.225	1.245		.181	.858
H1	221	.215	280	-1.030	.313
H2	.132	.184	.153	.716	.482
H3	.193	.209	.220	.925	.365
H4	.202	.218	.236	.927	.364
H5	.836	.236	.928	3.540	.002
H7	352	.324	309	-1.080	.289
H8	466	.289	461	-1.610	.122
H9	.127	.238	.091	.534	.599
H10	.858	.321	.337	2.677	.014

Table 8. Coefficients (T-Test).

The table presents the results of a multiple regression analysis, showing the unstandardized coefficients (B), standardized coefficients (Beta), t-values, and significance (Sig) for each hypothesis (H1 to H10). The constant value of .225 with a t-value of 1.245 and a significance level of .858 indicates that the constant R Square (R^2) is .796, which means that approximately user interactions on various outcomes.

For H1, the coefficient B is -.221 with a Beta of -.280, and the t-value is -1.03 with a significance level of The Adjusted R Square value is .713, slightly lower .313. This suggests that information quality (IQ) has a than the R^2 value. Adjusted R^2 adjusts the R^2 value negative but not statistically significant impact on based on the number of predictors in the model and the system use (SU), implying that improvements in sample size, providing a more accurate measure of information quality do not significantly affect how model fit by penalizing for the inclusion of nonusers utilize the system. Similarly, H2 with a significant predictors. An Adjusted R² of .713 still coefficient B of .132, Beta of .153, t-value of .716, and indicates that a substantial proportion (71.3%) of the a significance of .482 shows that information quality variance in the dependent variable is explained by the (IQ) has a positive but not statistically significant model, confirming the model's robustness and the impact on user satisfaction (US). H3 and H4 also show relevance of the included predictors. non-significant results with positive impacts from system quality (SQ) on system use (SU) and user satisfaction (US), respectively, indicating that these

regression model [21]. Predictor (constant) is H1, H2, relationships are not strong enough to be considered

However, significant results are seen in H5 and H10. For H5, the coefficient B is .836 with a Beta of .928, a t-value of 3.54, and a significance level of .002, indicating a strong positive and statistically significant impact of service quality (ServQ) on system use (SU). This suggests that improvements in service quality greatly enhance how users interact with the system. Similarly, H10 shows a significant positive impact of system use (SU) on net benefits (NB), with a coefficient B of .858, Beta of .337, t-value of 2.677, and a significance level of .014. This indicates that increased system use leads to greater perceived benefits, emphasizing the importance of system engagement for achieving net benefits. Other hypotheses, such as H7, H8, and H9, do not show significant results, suggesting these relationships require further investigation or may be influenced by other factors not captured in the model.

Finally, the overall model's fit statistics are presented in Table 9.

Table 9. Model Summary

R	R Square	Adjusted R Square	Std. Error of the Estimate	D-W
.892	.796	.713	.802	1.975

The table presents the overall model fit statistics for the multiple regression analysis. The value of R is .892, which indicates a very high correlation between the observed and predicted values of the dependent variable. This high R value suggests that the model explains a large portion of the variability in the dependent variable, demonstrating that the predictors collectively have a strong relationship with the outcome being measured.

term is not statistically significant, meaning it does not 79.6% of the variance in the dependent variable can be contribute much to the model when all predictor explained by the independent variables included in the variables are zero. Each hypothesis is evaluated to model. This high R² value indicates that the model is determine the effect of different quality dimensions and very effective in capturing the variation in the outcome variable, suggesting that the predictors are good at explaining the differences in the dependent variable.

The standard error of the estimate is .802, which reflects the average distance that the observed values fall from the regression line. A lower standard error

predicted values, suggesting that the model's unique insights on factors like system usability, predictions are fairly accurate. In this case, a standard information quality, and service effectiveness. error of .802 suggests that while the predictions are generally accurate, there is still some variability in the data that is not captured by the model.

which is close to the ideal value of 2. The D-W statistic differing expectations. Additionally, unmeasured tests for the presence of autocorrelation in the residuals variables, such as demographic differences or prior of the regression model. A value around 2 indicates that satisfaction levels, may have affected the outcomes, there is no significant autocorrelation, meaning the indicating a need for further research. residuals are independent of each other. This suggests that the model assumptions are met and that the regression results are reliable without the residuals Based on the analysis conducted, several key showing a pattern over time or across observations.

The high R and R² values indicate that the model explains a significant portion of the variance in the dependent variable. The Adjusted R² confirms the model's effectiveness even after adjusting for the number of predictors. The standard error indicates reasonable accuracy in the model's predictions, and the D-W statistic supports the reliability of the results by Regression analysis revealed significant relationships confirming the absence of autocorrelation in the between certain predictor variables and the dependent residuals. Overall, these statistics suggest that the variable. regression model is well-fitted and provides a reliable significantly impacted System Use, and System Use explanation of the relationships between independent and dependent variables.

In comparing the four studies, all focus on evaluating user satisfaction with health information systems, but differ in their approaches and contexts. Rumana et al. (2021) analyzed the ePuskesmas system using the End User Computing Satisfaction (EUCS) model and the DeLone & McLean model, focusing on features like accuracy and ease of use [22]. Despite system issues The ANOVA test confirmed the overall significance of like synchronization problems and slow responses, they the regression model, with a p-value of less than 0.001, found moderate user satisfaction, with three hypotheses indicating that the combined effect of the predictors accepted [22]. Muhammad and Arief (2020) applied the significantly explains the variability in the dependent DeLone & McLean model to assess the hospital variable. The model summary statistics further support information system at RS XYZ, discovering that factors the robustness of the regression model, with an R² such as information quality significantly affect user satisfaction Organizational factors also played a crucial role in adjusted R² of 0.713 and the Durbin-Watson statistic of perceived benefits, offering actionable insights for 1.975 suggest that the model is well-fitted and reliable. system improvement [23]. Abrori, Darmawan and Muhsi (2023) compared EUCS and MS-Qual methods in evaluating a system, revealing that content and ease of use significantly impact user satisfaction under EUCS, while efficiency and system availability were prominent under MS-Qual. The research highlighted differences in satisfaction drivers across methodologies [24]. Lastly, your study on BPJS Kesehatan focused on service quality, showing a strong positive relationship between service quality, system use, and net benefits. With a high R² value, the findings emphasized the importance of service quality and user engagement for optimal system outcomes. Together, these papers illustrate varied applications of user satisfaction models

indicates that the observed values are closer to the across health information systems, each contributing

The factors influencing certain hypotheses did not show significant results, possibly due to variations in individual user experiences and external factors like Finally, the Durbin-Watson (D-W) statistic is 1.975, familiarity with the BPJS Kesehatan website or

4. Conclusion

conclusions can be drawn from the findings of this study. The significance values for all questionnaire items were below 0.05, indicating valid data. The Cronbach's Alpha value of 0.940 demonstrates high reliability and internal consistency among the survey items. These rigorous validation and reliability tests enhance the credibility of the research findings.

Specifically, Service Ouality (H5) the (H10) significantly impacted Net Benefits. These findings indicate that improvements in service quality can greatly enhance user interaction with the system, and increased system use leads to greater perceived benefits. Other hypotheses, such as the impact of Information Quality and System Quality on User Satisfaction and System Use, showed non-significant results, suggesting the need for further investigation.

and system use value of 0.796, indicating that 79.6% of the variance in [23]. the dependent variable is explained by the model. The

> Based on the findings of this study, BPJS Kesehatan website developers should prioritize enhancing service quality (ServQ) as it significantly impacts system use (SU) and user satisfaction (US). Specific steps include improving the responsiveness and accessibility of online services, such as optimizing page load times, ensuring the site is mobile-friendly, and offering real time customer support. Developers should also focus on enhancing the user interface to be more intuitive and user-centered, making it easier for users to navigate and access key services. Additionally, regular updates based on user feedback can address potential pain points, ensuring that improvements align with user

expectations and drive better system engagement, leading to greater perceived benefits.

In conclusion, this study provides valuable insights into the factors affecting user satisfaction with the BPJS Kesehatan website. The significant impact of Service Quality on System Use and the importance of System Use in achieving Net Benefits highlight key areas for improvement. These findings can inform recommendations for enhancing the effectiveness of the BPJS Kesehatan website and contribute to the broader [13] N. Rulinawaty et al., "Investigating the influence of the updated literature on evaluating health information systems in Indonesia.

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