Study on Quality Demand for Online Shop Website

Submitted 18/06/20, 1st revision 14/07/20, 2nd revision 23/08/20, accepted 30/09/20

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Abstract:

Purpose: This study focuses on the online shop website H and by Kano two-dimensional quality model, it obtains “the items to improve service quality” as the criteria for the website to improve the quality.

Design/Methodology/Approach: According to SERVQUAL this study classifies the measures of service quality into Responsiveness, Tangible, Reliability, Empathy and Guarantee. According to Kano model analysis, this study obtains items which highly enhance customer satisfaction and highly reduce customer dissatisfaction.

Findings: The study obtains five items which highly enhance customer satisfaction and highly reduce customer dissatisfaction: specific classification of products on the website, immediate accomplishment of service, precise amount of bill after shopping, customer service personnel maintain certain degree of service quality, customer service personnel provide various products with consistent quality. It is suggested that the online shop website H should improve these five items in order to increase customer satisfaction and profits.

Practical implications: This study focuses on the online shop website H and by Kano two-dimensional quality model, it obtains “the items to improve service quality” as the criteria for the website to improve the quality.

Originality/value: This study obtains five “items to improve service quality” which increase customer satisfaction and reduce customer dissatisfaction. The website can maintain good service quality of these items to result in maximum profit.

Keywords: Online shop website, Kano model, service quality.

JEL codes:

Paper type: Research article.

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1. Introduction

Competition in online shop website market is gradually severe. The shops should develop unique services, recognize customers’ needs and enhance customer satisfaction with service quality in order to attract more customers and result in higher profits. According to SERVQUAL proposed by Parasuraman et al. (1988), measures of quality include Responsiveness, Tangible, Reliability, Empathy and Guarantee. Measurement items of service quality are based on literatures and modified upon the characteristics of the online shop website.

According to questionnaires, it obtains “attributes to improve service quality” which highly increase customer satisfaction and reduce customer dissatisfaction. The analytical result helps the online shop website to enhance quality and competitive advantages.

2. Literature Review

2.1 Service Quality

Bateson and Hoffman (2002) argued that the measurement of service quality depends on the customers’ cognition after receiving the services. Parasuraman et al. (1988) introduced five dimensions of service quality, including (1) Reliability; (2) Responsiveness; (3) Guarantee; (4) Empathy; (5) Tangible. Tsiotsou (2006) suggested that service quality is the customers’ general evaluation on the advantages, disadvantages, and rating of the products. According to SERVQUAL proposed by Parasuraman et al. (1988), this study classifies the measures of service quality into Responsiveness, Tangible, Reliability, Empathy and Guarantee. Measurement items of service quality are based on the questionnaires of Antony et al. (2004), Zeithaml et al. (2002), Chung and Chen (2015) and Parasuraman et al. (1988) and modified upon the characteristics of the online shop website.

2.2 Kano Two-Dimensional Quality Model

Kano et al. (1984) classified quality items into five categories, including Attractive Quality Element (A), One-Dimensional Quality Element (O), Must-Be Quality Element (M), Indifferent Quality Element (I), Reverse Quality Element (R). Kano Model is commonly applied to many areas and studies (Zhang and Von Dran, 2001). Kano et al. (1984) investigated customers’ cognition towards the quality items and the responses include “I like it that way”, “Take it for granted”, “It does not matter”, “Can be tolerated” and “Dislike”. Matzler and Hinterhuber (1998) proposed two-dimensional quality factor classification of modified Kano model, as shown in Table 1.

Matzler and Hinterhuber (1998) adopts “customer satisfaction coefficients” as the criterion to improve the quality. The formula of coefficient is shown below:
C (1): Coefficient to increase customer satisfaction = \( \frac{A+O}{A+O+M+I} \)

C (2): Coefficient to reduce customer dissatisfaction = \( \frac{O+M}{A+O+M+I} \times (-1) \)

Where: A: Attractive Quality; O: One-Dimensional Quality; M: Must-Be Quality; I: Indifferent Quality

| Table 1. Categories of two-dimensional quality elements of Matzler and Hinterhuber |
|---------------------------------|--------------------------------|----------------------------|-----------------|-----------------|-------------|
| Negative Positive               | I like it that way             | Take it for granted        | It does not matter | Can be tolerated | Dislike     |
| I like it that way              | Uncertain                      | Attractive Quality          | Attractive Quality | Attractive Quality | One-Dimensional Quality |
| Take it for granted            | Reverse Quality                | Indifferent Quality         | Indifferent Quality | Indifferent Quality | Must-Be Quality |
| It does not matter             | Reverse Quality                | Indifferent Quality         | Indifferent Quality | Indifferent Quality | Must-Be Quality |
| Can be tolerated               | Reverse Quality                | Indifferent Quality         | Indifferent Quality | Indifferent Quality | Must-Be Quality |
| Dislike                        | Reverse Quality                | Reverse Quality            | Reverse Quality    | Reverse Quality    | Uncertain    |

Source: Author.

3. Research Methodology

According to SERVQUAL proposed by Parasuraman et al. (1988), this study classifies the measures of service quality into Responsiveness, Tangible, Reliability, Empathy and Guarantee. According to Kano model analysis, this study obtains items which highly enhance customer satisfaction and highly reduce customer dissatisfaction. Measurement items of service quality are based on the questionnaires of Antony et al. (2004), Chung and Chen (2015), Zeithaml et al. (2002) and Parasuraman et al. (1988) and modified upon the characteristics of the online shop website.

Research subjects are customers of the online shop website H. From August 1 to 31, 2020, it retrieved 45 questionnaires. Variables of measurement include the following:

1. Responsiveness: customer service personnel immediately respond to demand and questions (Item1); customer service personnel can immediately provide the service needed (Item2); the website immediately responds to the customers’ demands (Item3).

2. Tangible: specific prices indicated on the website (Item4); specific classification of products on the websites (Item5); specific webpages on the website (Item6); specific discounts indicated on the website (Item7).
(3) Reliability: immediate accomplishment of service on the website (Item8); precise product information for the customers (Item9); precise amount of bill after shopping (Item10).

(4) Empathy: customer service personnel can make efforts to solve the customers’ problems (Item11); customer service personnel recognize the customers’ needs and provide appropriate services (Item12); the customers’ profits are the priority on the website (Item13); customer service personnel kindly solve the customers’ problems (Item14).

(5) Guarantee: customer service personnel provide responsible service (Item15); they respond to customers’ questions with sufficient professional knowledge (Item16); customer service personnel maintain certain degree of service quality (Item17); customer service personnel provide various products with consistent quality (Item18).

Hinterhuber (1998) proposed two-dimensional quality factor classification of modified Kano model, as shown in Table 1. Matzler and Hinterhuber (1998) adopts “customer satisfaction coefficients” as the criterion to improve the quality. The formula of coefficient is shown below:

\[ C(1) = \frac{A+O}{A+O+M+I} \]
\[ C(2) = \frac{O+M}{A+O+M+I} \times (-1) \]

4. Research Results

This study obtains five “items to improve service quality” which increase customer satisfaction and reduce customer dissatisfaction (Table 2): (Item5); (Item8); (Item10); (Item17); (Item18). The results allow the online shop website to recognize the ranking of service quality items. The website can maintain good service quality of these items to result in maximum profit.

Table 2. Items to improve service quality

| Item | A | O | M | I | R | Q | C(1) | C(2) |
|------|---|---|---|---|---|---|------|------|
| 1    | 10| 19| 4 | 9 | 0 | 3 | 0.690| *-0.548|
| 2    | 20| 10| 5 | 4 | 1 | 5 | 0.769| -0.385|
| 3    | 18| 13| 1 | 8 | 2 | 3 | 0.775| -0.350|
| 4    | 22| 12| 0 | 6 | 2 | 3 | *0.850| -0.300|
| 5    | 14| 21| 2 | 5 | 1 | 2 | *0.833| *-0.548|
| 6    | 22| 13| 1 | 6 | 0 | 3 | *0.833| -0.333|
| 7    | 22| 14| 1 | 3 | 3 | 2 | *0.900| -0.375|
The study focuses on the online shop website H and by Kano two-dimensional quality model, it obtains “the items to improve service quality” as the criteria for the website to improve the quality. This study acquires five “items to improve service quality” which increase customer satisfaction and reduce customer dissatisfaction: specific classification of products on the websites are immediate accomplishment of service, precise amount of bill after shopping, customer service personnel maintain certain degree of service quality, customer service personnel provide various products with consistent quality.

The website must maintain good service quality of these items to lead to competitiveness. The analytical result helps the online shop website to enhance quality and competitive advantages.

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