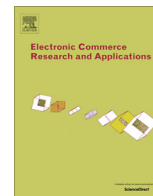




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Evaluation of service quality in facebook-based group-buying

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ABSTRACT

In recent years, community platforms have developed into community shopping, and have gradually become an interesting online shopping consumption model. Facebook is Taiwan's most important community platform. Internet shopping is not its main function though, but still Facebook has managed to find a way into the group-buying business. At this stage, in its logistics, the financial flows and information flows are not perfect. This study integrates a model of e-commerce information with an electronic service quality scale, and uses the Kano quality model to assess the key service quality characteristics of community buying. We found that there are six attractive qualities, the most important of which is product recommendation. The key quality elements for attracting customers are price and recommendation features, and that the group that is most attracted are 41- to 50-year-old female home-makers. The results of this research provide people who participating in group-buying on Facebook with useful information on the process, as well as insights on managerial planning for the business model.

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1. Introduction

Customer-centric marketing, combined with service innovation from information and communications technology (ICT), has driven the transformation of the e-commerce business model. Online shopping behavior has gradually evolved from the model of purchasing products online into a group-buying model, which was followed closely by the development of WeChat to group-buying on Facebook, forming the so-called social e-commerce (Wang and Hsieh, 2017). Mark Zuckerberg earlier mentioned that the next boom in e-commerce would be social commerce (Ishii, 2017). Today, virtual communities have already deeply impacted the buying decision process of the majority of Internet users. No longer limited by the products themselves, the addition of human factors have made social media into an indispensable bridge for businesses to convert their traffic into cash. The turnover at the WeChat Mall on the WeChat platform has reached RMB 15 billion, for example. Facebook, the most used platform in Taiwan, has 160 fans pages with more than 2 million followers.

In this research, *social e-commerce* is defined as communities that use social media as an extension of their own or third-party trading platforms to get members in social media to shop online.

Essentially, the business opportunities derived from the mobilization of friends (including online friends) to make purchases together or the use of social media to share information are all considered to be social e-commerce. We divide social e-commerce into three main categories. The first category consists of e-commerce platforms as social media wherein these platforms combine the features of social media to help users log in using their social media accounts and share the products they like on their own page; this is a type of B2C transaction. The second category consists of social media platforms as e-commerce platforms wherein social media combine the features of e-commerce platforms to use their existing user base and popularity to, aside from selling products related to the social media, encourage users to share the products they like on the website; this is a type of business-to-consumer (B2C) transaction. The third category consists of social media group-buying, with community pages or groups on social media engage in e-commerce; this is a type of customer-to-customer (C2C) transaction. Among these, social media group-buying is the primary focus of this research.

At the core of social media platforms is its social aspect. Most users that engage in social media group-buying do so on social media platforms that are not bona fide e-commerce platforms. They make their purchases through pages. Therefore, given the lack of a logistics and a cash flow management system, capable of including fixed price, wholesale price, selling price, and other such

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information, can help wholesalers and page administrators communicate clearly with each other. This makes it more convenient for page administrators in consolidating purchase orders. Also, using the system to help customers book their orders, make payments, and select their preferred shipping method means that the system can integrate the goods shipment and storage functions of the logistics industry. With this, the cost of person hours spent on customized processes can be reduced. Fig. 1 shows the current status of social media-based group-buying on Facebook in Taiwan.

This research explores the service quality of the web app platform developed from the work of Wang and Hsieh (2017) and the To-Be framework (Fig. 2) proposed by Facebook for group-buying.

By consolidating the e-commerce information systems success model proposed by Delone and McLean (2003) and the SERVQUAL dimensions of Parasuraman et al. (2005), a questionnaire based on the two-dimensional quality model is designed. After users completed the questionnaire after experiencing the platform, the data collected will be analyzed using the Kano two-dimensional quality model to understand which of the service quality factors increase demand and user satisfaction. From this, we propose improvements to the web app.

2. Methodology

The methodology consists of three processes: the first is the development of the web app and to have users experience it; the second is to design a Kano two-dimensional quality questionnaire; and the third is to conduct some related data analysis. The development of the social e-commerce platform occurred in cooperation with Facebook. It consists of the web and an app focusing on logistic services. The framework of logistic services includes channel and inventory integration, supplier and order integration, and customer order integration. Channel integration and inventory integration are achieved through the integration of inventory with the supplier uploading information into the system, and the shipment of goods through home delivery or convenience store pick-up, depending on the preferred shipment method on the order form.

The integration of supplier order forms provides Facebook page administrators with a format for their consolidated orders, making

it more convenient for suppliers to determine product volume and information, and provide page administrators with the ability to inquire on order status (cash flow, logistics). Customer order integration provides a format for customer orders, making it convenient for Facebook page administrators to determine product volume and information, directly forward the order form to the supplier, search for orders, and give page administrators the ability to inquire on order status. Compared to the past, the difference is that, using the partner logistics firm as a platform, the goods of the suppliers are centralized in the cooperating logistical warehouse. Once the social media platform has received the order, a notice will be sent to the logistics firm. The logistics firm will proceed with managing the shipment of the goods, and have it sent for home delivery or convenience store pick-up depending on customer needs (Fig. 2).

Fig. 3 illustrates the operating procedures of the platform including its 12 steps.

They include: registration of Facebook page administrators; the posting of goods by the page administrators, and inviting page members to join the web app though Facebook/Line. They further include: page members clicking the link to download the app and completing their registrations; page members accepting the invitation of the page administrators; page administrators making approvals. In addition, there are members browsing the products posted on the social media group-buying page, placing an order, and inputting the last five digits of their ATM numbers. Thereafter, the page administrator must consolidate the orders received, and figure out their shipping logistics and from what center, and then complete the refresh processes. Finally, the page administrator inquires about the consolidated sales report, and the page member inquires about the shipment status. The social media group-buying system developed can save everyone time with stocking goods and manual inventory counting, making it a better way of managing the platform. Customers will no longer need to get bogged in reading through every single Facebook post. Instead, they will be able to quickly find their desired products through the product category search.

This research utilizes the Kano two-dimensional quality model to evaluate the social media group-buying platform by analyzing the user feedback. The concept behind the two-dimensional quality model comes from *motivator-hygiene theory* (Herzberg et al.,

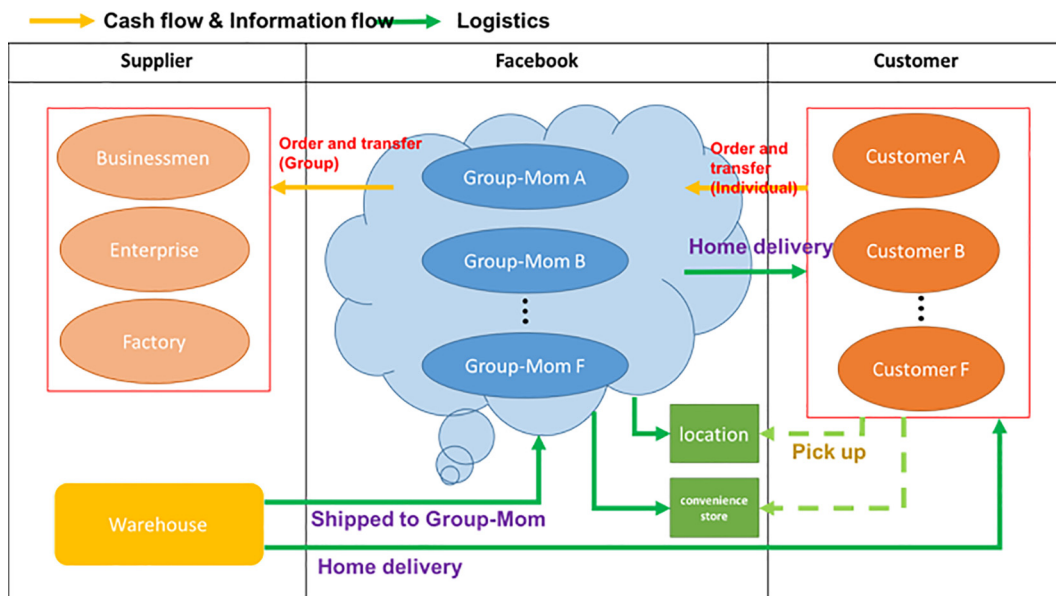


Fig. 1. The As-Is Model for Group-Buying on Facebook in Taiwan.

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