A Model of Posted-Price Opaque Booking System Implemented for Indonesian-Market Online Travel Agent. Case Study: Klikhotel.com

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ABSTRACT
The subject of this research is to find out the most suitable of opaque selling strategy without diluting hotel brand and pricing policy to be implemented in Klikhotel.com, an Indonesian-based online travel agent (OTA).

The starting point of the research is a literature study in opaque selling theory, roles of OTA, and behavior study of Indonesian online market. It is followed by choosing a potential opaque selling mechanism and analyzing OTAs which have applied this mechanism. After analyzing similar systems, an adapted system is created for the current system of Klikhotel.com. It is used as a simple test market to measure the feasibility of a new product from customer's perspective.

We design a system that is less opaque to adjust the Indonesian market that still require photos and reviews in decision making prior to booking a hotel. Our design results in an additional tool in the Klikhotel.com extranet system which called 'mystery hotel' promotion, whereas for the customer module, we design that the opaque hotels displayed in a higher position than the non-opaque one to increase conversion rates. The opaque selling mechanism using this posted price strategy has been tested to Klikhotel.com current customers and has shown a positive result.

INTRODUCTION

As a local online travel agent in Indonesia, Klikhotel.com strives to give the best service to its customers. One factor that has proven time to time that could bring customer satisfaction for an online travel agent is pricing competitiveness. Another five factors that are examined to measure customer satisfactions, including: ease of booking, usefulness of the information on the web site, availability of booking options/travel packages, appearance/design of web site, and ease of navigation [1].

Price as a big factor that influence on hotel purchases is also convinced by a polling that was held by Travelocity in 2008 [2]. Overall respondents report room rate having an average influence of 48% when selecting a hotel. About 21% respondents said best locations was the main criterion when choosing a hotel, while 14% of them mentioned the need of customer reviews. Preferred hotel chain is also important to 11% of respondents.

Moreover, because Klikhotel.com target market is Indonesian, price factor is even more important compared to a more developed country. Based on an Accenture research [3], the majority of Indonesian’s consumers tend to be middle-income earners. Indonesian consumer behavior may differ from those in developed markets, since most shoppers are both highly price conscious and exhibit strong brand loyalties.

In order to get the best room rate, Klikhotel.com always looks for a creative way to negotiate a big discount from its hotel suppliers. One possible way to get it is a strategy of selling hotel’s distressed inventory, defined as rooms remaining in inventory very close to the day of arrival with limited options to sell [4] and have a big chance to be unoccupied for a night so it may lose all its value for that night [5].

However, selling hotel rooms using a big discount scheme needs a well planned strategy. Hotels need a mechanism to sell hotel rooms at a discount price without destroying their own pricing structure. Fortunately, technology advancement brought by electronic commerce has enabled hotels to employ creative selling strategies called as an opaque selling. Opaque selling is the practice of offering travel inventory such as hotel rooms, airline, tickets, or car rentals at discounted prices while hiding the identity of the supplier.
until after the purchase has been completed [6]. Hotwire.com and Priceline.com are the most important companies having successfully developed this strategy in the US market. They have developed opaque selling, in which the services’ characteristics are concealed (hotel or airlines brands, exact hotels’ location or travel schedule) until the payment is completed [7].

However, the opaque strategies adopted by both companies are not necessarily suited to the characteristics of the customer in Indonesia. Therefore, the goal of this research is to find out the best practice of opaque selling strategy for Indonesian market without jeopardizing hotel’s brand and pricing policy. The strategy is modeled to be implemented as an additional promotion tool in Klikhotel.com. This model is basically a proposed user interface for both Klikhotel.com supplier and customer modules that can be well integrated into the current transparent booking system.

2. RELATED WORKS
   a. Opaque selling strategy

   Opaque selling helps getting rid in the last minute of distressed inventories without exposing the brand as would be the case under discounted transparent rates. It is also used to target price sensitive consumers who are not too concerned about the specifics of their travel plans [8].

   Two different selling mechanisms are utilized by opaque channels: Posted Price (PP), where the sales channel sets a policy take-it-or-leave-it retail price, and Name-Your-Own-Price (NYOP), where the sales channel accepts or rejects customers’ bids and profits from the difference between the bids and the wholesale prices [14].

   Opaque products typically go on sale only very close to the last minute time, i.e., after consumers have bought in the non-opaque channel but the hotel still have some unsold inventory. The hotels can accomplish opaque selling through an intermediary that obtain products from hotels and sell them to maximize their own profits. Thus, the opaque selling strategy is an essential tool for unsold room clearance [9]. Moreover this strategy benefits to get rid of rate wars amongst competition, and protects rate integrity. Based on best rate guaranteed policy, hotels match any rate for the same room and conditions a guest finds on a different distribution channel. However, that term does not apply to opaque rates [2].

   The level of opacity varies across different opaque channels as some choose to offer cancelation opportunities (Lastminute.com), provide user generated feedback (Hotwire.com), or list some of the amenities offered by the service provider. Similarly the degree of opacity may also be impacted by the market, as markets with fewer similar competitors tend to have decreased opacity over markets with a larger number of service providers [10].

   Although there are many researchers conducted in the last several years, there is still much disagreement regarding the economic benefits of opaque selling. This is because introducing opaque offerings benefits a hotel only if the incremental revenue from opaque sales exceeds the revenue loss from the cannibalization of customers who are willing to pay for a non-opaque product, but end up purchasing an opaque one. This is particularly relevant in the online retailer, where they only need a little effort to search for opaque offerings [11].

   b. The role of online travel agent (OTA) in opaque selling

   Opaque online channel offer hotels a convenient way to segment customers and distribute discounted products without cannibalizing full priced products. The opaque channels segment customers because regular full price paying customers desiring to stay at the hotel of their choice with full cancellation flexibility are different from those willing to purchase the discounted, non-refundable opaque product at the unknown hotel [1]. Opaque online channel can profit from such differences despite the fact that the opaque feature virtually erases product differentiation and thus intensifies competition in price sensitive market. It can help hotels reach new price sensitive consumers who otherwise remain outside their market. The low price of opaque services enables hotels to attract low value customers who are sensitive to price but less sensitive to service characteristics. On the other hand, the opaque feature prevents regular customers from switching to opaque channels because they would prefer to know hotel details [12].

   Hotels can use OTA as revenue management tools. The OTA can be utilized in 3-ways: by selling the room-only rates, package (for example: flight + hotel) and distressed rates with or without opaque strategy. For example, hotels can take the room-only rates and use them as a standard occupancy that can be open and closed at anytime. They take the package rates (flight + hotel) for business customers in which the booking window is further out because they included a flight. Lastly, the distressed rates (the highest discounted rates) can be used as desperation rates for when they have weak occupancy, a group cancellation or room block drop-offs. The distressed rates selling may be combined with the opaque strategy if they prefer
to protect their brand. Having the ability to run all of these rates puts the hotel in front of the customer with any trip situation (business, vacation or last minute) [2].

c. Indonesian online consumer shopping behaviour for hotel booking

According to a survey research conducted to 470 respondents in Indonesia, hotel was one of the most products bought online, along with travel arrangement, transportation ticket and service banking [13]. Based on survey’s result analysis, demographic factors that have influence in hotel’s online purchase are age and expenses. Most hotel purchases was done by customers aged 30-39 or having expenses per month more than IDR 5,000,000.

The survey also studied customer motivations that affect online purchase. This motivation was grouped into 3 parts: satisfaction, review and leisure. Factors that contribute to each motivation could be seen in detail in table 1. It is shown that dominant motivations in frequent online purchase are DECM7, DECM8, DECM9, DECM10, DECM11 and DECM13. The strongest motivations found between them are DECM9 and DECM13, which are online reviews for a product and the quality of product’s images.

Table 1. Factor of motivation in online shopping

<table>
<thead>
<tr>
<th>Factors</th>
<th>Motivation in online shopping</th>
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<tbody>
<tr>
<td>Satisfy</td>
<td>DECM1 Try to find a specific product</td>
</tr>
<tr>
<td></td>
<td>DECM3 Choose an online shop that I have been experienced before</td>
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<tr>
<td></td>
<td>DECM4 Often do online shop if the website is easily to use</td>
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<tr>
<td></td>
<td>DECM5 Often do online shop if the website is attractive</td>
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<td></td>
<td>DECM6 Often do online shop if there is an adequate information about the product</td>
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<tr>
<td></td>
<td>DECM7 Often do online shop if the website give useful additional information</td>
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<tr>
<td></td>
<td>DECM12 Often do online shop if the website is secured</td>
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<tr>
<td></td>
<td>DECM13 Often do online shop if product’s photos are vivid, interesting, good quality</td>
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<tr>
<td></td>
<td>DECM14 Often do online shop the website has a good customer service</td>
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<tr>
<td>Review</td>
<td>DECM8 Don’t do online shop before reading online review</td>
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<td></td>
<td>DECM9 Online review helps for searching a proper product</td>
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<tr>
<td></td>
<td>DECM10 Online review helps for buying decision</td>
</tr>
<tr>
<td>Leisure</td>
<td>DECM2 Impulsive shopping in online shop</td>
</tr>
<tr>
<td></td>
<td>DECM11 Use a social media website to help a decision making</td>
</tr>
</tbody>
</table>

3. RESEARCH METHOD

In this research we conduct 5 steps as following:

1. The starting point of the research is a literature study in opaque selling theory, the role of OTA, and behavior study of Indonesian online market.
2. Choosing an opaque selling strategy that will be implemented: Posted Price or Name Your Own Price.
3. Finding, choosing and studying the chosen online travel agent which has an opaque selling system, i.e. Hotwire, Lastminutetravel and Wotif. The study give us a better understanding about how to display an opaque product—which hotel’s attributes are hidden, as well as to find out the opaque product’s selling procedure.
4. After analyzing similar systems, an adapted system is created to the current system of Klikhotel.com. The adapted system is used as a simple test market to measure the feasibility of a new product from customer’s perspective.
5. Analyzing and designing a proposed system that suitable for Indonesian market. The main concerns are displaying an opaque product to the customers and propose a business process to guarantee the quality of opaque products. We also design a promotion tool to enable hotel suppliers submitting opaque pricing, and propose an adjustment to integrate opaque booking system to Klikhotel.com current system.

4. RESULTS AND ANALYSIS

In this section, we explain the results of research that comprises two parts: analysis and design. The analysis part consists of analysis of a similar and a proposed system. The design part consists of user interface design for the front end (customer module) and the back end (supplier module).

We choose the posted price mechanism because the way it works does not require a lot of changes to current Klikhotel.com business process. The opaque product will be displayed in the same way as the regular one with several omitted attributes such as hotel address, descriptions, and exterior photos.

a. Analysis of similar systems

We compare three opaque travel sites in this research: Lastminutetravel, Hotwire and Wotif. The goal is to find out how to display the opaque products and how rules and restrictions apply to them.

Table 2. Comparison of opaque booking system
Table 2 shows that the most opaque product is provided by Hotwire, while Lastminutetravel provides the less opaque one. In general, they hide all attributes that can directly identify the hotel such as exact location/map, hotel brand/name, and specific address.

b. Testing of opaque selling and market survey

The opaque booking interface that can be easily adapted to current Klikhotel.com system is the one provided by Wotif. Thus, we create several opaque products in the current Klikhotel.com manually based on Wotif. These opaque products are generated as new hotels with a unique hotel ID, and they are considered as a different hotel and do not have any relations to the transparent hotel (the real hotel). The lack of such system is that the voucher cannot be generated automatically when the customer books the hotel. The voucher must be created manually using a special procedure where the admin has to manually match the opaque hotel with the transparent one, and as a consequence, instant bookings are not possible.

Nevertheless, after few trials of selling opaque products in about 2 months, the result is considerably positive. There are 25 paid orders in total sales for about IDR 27 Million. It shows a good sign that this kind of promotion is accepted by Klikhotel.com customers.

c. Analysis of a proposed system

Based on Table 1, we formulize for our system that DECM7 (product information) will be represented as hotel profile, hotel facilities and room amenities, and hotel map, whereas DECM8, DECM9 and DECM10 (product review) will be represented as review rating and selected reviews with limited contents than can give tolerable information to customers during searching and decision making process. In addition, we also use DECM13 (product image) to be implemented as a very limited room images.

Table 3 shows the data displayed, data hidden, as well as the cancelation policy of the proposed opaque system in Klikhotel.com

d. System Design and business process

Figure 1 shows the promotion tool provided for Klikhotel.com supplier in which they can submit their opaque pricing strategy. After a successful submission, the system will generate a new property “Mystery Hotel” for its counterpart transparent hotel that has a relation in the database. To ensure the quality of the submitted hotel, Klikhotel.com has an acceptance policy based on several factors such as average review rating, best available rates (discount price), and the proximity to places of interest.
For each booking of a mystery hotel (i.e. Mystery Hotel A) will be processed automatically as its original property (i.e. Hotel A) at the back end system without the need of manual processes or procedures. To maximize the sales, Klikhotel.com system will generate many auto-schedulers in the application server to maintain the discount schemes of each hotel. As for the database [15], there will be a slight change in the structure where we need to add a new “Mystery Hotel” table that has a one-to-one relation to the “property” table and also add an additional promotion type.

Figure 2 shows the design of opaque hotel in customer module. As we can see that the hotel name is hidden with a limited room pictures while still give access to a limited hotel map and guest reviews. For customer perspective, there are no major changes in the booking/business process to make sure they will not experience any difficulties when browsing the website.

5. CONCLUSION

This research has produced an analysis and design of opaque pricing mechanism for Klikhotel.com which hides hotel brand name, specific address, and exterior picture. Adapted to Indonesian market, we deliberately design the system that the opacity level is not too high or too low because of the trust of Indonesian consumers are still influenced strongly by hotel room photos and reviews. These photos and reviews are selected manually to retain a degree of confidentiality, but still give a sense of trust to the customers. Our design results in an additional promotion tool in the Klikhotel.com supplier extranet system.
which called 'mystery hotel' promotion, whereas for the customer module, we design that the opaque hotels will be displayed in a higher ranking/position of the non-opaque hotel to increase conversion rates. For further development, we suggest automatic filtering/acceptance for opaque submission in the next research as well as another way of opaque mechanism such as online bargaining booking that intentionally hide the room rates rather than the hotel information.

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