FACTORS INFLUENCING INTENTION TO PURCHASE LOCAL COMMUNITY PRODUCT ON E-COMMERCE WEBSITE: CASE OF ONE TAMBON ONE PRODUCT (OTOP) IN THAILAND



# จุหาลงกรณ์มหาวิทยาลัย

บทคัดย่อและแฟ้มข้อมูลฉบับเต็มของวิทยานิพนธ์ตั้งแต่ปีการศึกษา 2554 ที่ให้บริการในคลังปัญญาจุฬาฯ (CUIR) เป็นแฟ้มข้อมูลของนิสิตเจ้าของวิทยานิพนธ์ ที่ส่งผ่านทางบัณฑิตวิทยาลัย

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are the thest a thesis supported intraction roughly ment of the transformers theory.

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ปัจจัยที่มีอิทธิพลต่อความตั้งใจในการซื้อสินค้าชุมชนท้องถิ่นบนเว็บไซต์อีคอมเมิร์ซ: กรณีสินค้าหนึ่งตำบลหนึ่งผลิตภัณฑ์ (OTOP) ในประเทศไทย



วิทยานิพนธ์นี้เป็นส่วนหนึ่งของการศึกษาตามหลักสูตรปริญญาวิทยาศาสตรมหาบัณฑิต สาขาวิชาวิทยาการคอมพิวเตอร์และเทคโนโลยีสารสนเทศ ภาควิชาคณิตศาสตร์และวิทยาการ คอมพิวเตอร์ คณะวิทยาศาสตร์ จุฬาลงกรณ์มหาวิทยาลัย ปีการศึกษา 2560 ลิขสิทธิ์ของจุฬาลงกรณ์มหาวิทยาลัย

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Ву	Miss Krittika Akasarakul
Field of Study	Computer Science and Information Technology
Thesis Advisor	Associate Professor Nagul Cooharojananone, Ph.D.

Accepted by the Faculty of Science, Chulalongkorn University in Partial Fulfillment of the Requirements for the Master's Degree

Dean of the Faculty of Science (Professor Polkit Sangvanich, Ph.D.) THESIS COMMITTEE \_\_\_\_\_\_Chairman (Assistant Professor Pattarasinee Bhattarakosol, Ph.D.) \_\_\_\_\_\_Thesis Advisor (Associate Professor Nagul Cooharojananone, Ph.D.) \_\_\_\_\_\_External Examiner (Suporn Pongnumkul, Ph.D.) กฤติกา อัคคะสาระกุล : ปัจจัยที่มีอิทธิพลต่อความตั้งใจในการซื้อสินค้าชุมชนท้องถิ่นบน เว็บไซต์อีคอมเมิร์ซ: กรณีสินค้าหนึ่งตำบลหนึ่งผลิตภัณฑ์ (OTOP) ในประเทศไทย (FACTORS INFLUENCING INTENTION TO PURCHASE LOCAL COMMUNITY PRODUCT ON E-COMMERCE WEBSITE: CASE OF ONE TAMBON ONE PRODUCT (OTOP) IN THAILAND) อ.ที่ปรึกษาวิทยานิพนธ์หลัก: รศ. ดร. นกุล คูหะโรจนานนท์, 104 หน้า.

ตามกรอบนโยบายของประเทศไทยที่มีการขยายตลาดและสร้างโอกาสในการดำเนินธุรกิจ โดยใช้เทคโนโลยีสารสนเทศ (ไอซีที) และพาณิชย์อิเล็กทรอนิกส์ (อีคอมเมิร์ซ) เพื่อสนับสนุนชุมชนใน ชนบท อย่างไรก็ตามชุมชนเหล่านี้ส่วนใหญ่ไม่มีเว็บไซต์ของตนเองในการขายผลิตภัณฑ์ท้องถิ่น พวก เขาต้องพึ่งพาเว็บฝากขายเพื่อจำหน่ายผลิตภัณฑ์ท้องถิ่นของตนเอง ดังนั้นการมีเว็บไซต์ทางการของ ชุมชนและการใช้งานอีคอมเมิร์ซ จะทำให้ได้รับความสนใจและเป็นประโยชน์ต่อชุมชนมากขึ้น ดังนั้น ในการศึกษานี้จึงต้องการศึกษาถึงปัจจัยที่มีอิทธิพลต่อความต้องการในการซื้อสินค้าหนึ่งตำบลหนึ่ง ผลิตภัณฑ์ (โอทอป) ของลูกค้า ซึ่งมีแนวคิดมาจากหนึ่งหมู่บ้านหนึ่งผลิตภัณฑ์ (โอวอป) ในประเทศ ญี่ปุ่น ผ่านการซื้อขายจากแหล่งซ้อปปิ้งบนอินเทอร์เน็ตระหว่างเว็บฝากขายและเว็บไซต์ ทางการ ปัจจัยต่าง ๆ เช่นการรับรู้ความสะดวกในการใช้งาน ความน่าเชื่อถือของเว็บไซต์ ความ ้น่าเชื่อถือของผลิตภัณฑ์ และอิทธิพลทางสังคมที่มีผลต่อความต้องการซื้อของลูกค้าได้ถูกกล่าวถึงและ ้วิเคราะห์ เก็บรวบรวมข้อมูลโดยวิธีการสุ่มตัวอย่างผู้เข้าร่วมการอบรม ซึ่งเป็นบุคคลจากพื้นที่ชนบท แต่ละแห่งในภาคตะวันออกเฉียงเหนือของประเทศไทย และมีความสนใจในผลิตภัณฑ์โอทอป การทำ ความเข้าใจปัจจัยต่าง ๆ ที่มีอิทธิพลต่อการซื้อสินค้าออนไลน์จะช่วยให้ผู้คนในชนบทมีแผนที่จะสร้าง เว็บไซต์ทางการเพื่อจำหน่ายสินค้าโอทอป จากนั้นทดลองกับกลุ่มตัวอย่างโดยการใช้เครื่องตรวจจับตา เพื่อศึกษาพฤติกรรมและความสนใจในการมอง สังเกตุ และใช้งานหน้าเว็บไซต์ ซึ่งผลที่ได้ไม่สอดคล้อง กับผลทางสถิติ ผู้วิจัยจึงจัดทำสนทนากลุ่มกับกลุ่มตัวอย่างเดิมจำนวนหนึ่งเปรียบเทียบกับอีกกลุ่ม ตัวอย่างหนึ่งที่มีช่วงอายุคนละยุคสมัย พบว่าผลที่ได้จากทั้งสองกลุ่มมีความคิดเห็นไปในทิศทาง เดียวกันและสอดคล้องกับผลการวิเคราะห์ทางสถิติ.

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	คอมพิวเตอร์	ลายมือชื่อ อ.ที่ปรึกษาหลัก
สาขาวิชา	วิทยาการคอมพิวเตอร์และเทคโนโลย	
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# # 5872634923 : MAJOR COMPUTER SCIENCE AND INFORMATION TECHNOLOGY KEYWORDS: E-COMMERCE / ONE TAMBON ONE PRODUCT (OTOP) / ONE VILLAGE ONE PRODUCT (OVOP) / PURCHASING INTENTION / TECHNOLOGY ACCEPTANCE MODEL / RELIABILITY / SOCIAL INFLUENCE / PERCEIVED EASE OF USE / FOCUS GROUP

KRITTIKA AKASARAKUL: FACTORS INFLUENCING INTENTION TO PURCHASE LOCAL COMMUNITY PRODUCT ON E-COMMERCE WEBSITE: CASE OF ONE TAMBON ONE PRODUCT (OTOP) IN THAILAND. ADVISOR: ASSOC. PROF. NAGUL COOHAROJANANONE, Ph.D., 104 pp.

In Thailand, ICT and e-Commerce are using for supporting rural community people refer to Thailand policy framework which has the policy to expand the market and create opportunities in business. However, these communities mostly do not have their website to sell their products. They still have to rely on a web portal. Therefore, having the rural community official website and e-Commerce would expect to gain more attention and would be advantages to the community. Thus, in this research, we would like to study factors influencing customer's purchasing intention through internet shopping of One Tambon One Product (OTOP), derived from the concept of One Village One Product (OVOP) in Japan, between on web portal and web official. Several factors such as perceived ease of use, a reliability of the website, a reliability of the product and social influences that affect customer's purchasing intention were discussed and analyzed. We collected the data by using a simple sampling method to survey participants who are from each rural area in North Eastern of Thailand and having an interest in OTOP products. To understanding well, the factors which influence online purchasing would allow rural people the possibility of having a plan for making their official OTOP website. Then, we performed a user study on official OTOP website to use an eye tracking machine based on paperwork participant's background. The result was inconsistent with the previous statistical result which stated that the social influence has the most effect on purchasing intention. Then, we conducted a focus group on the same sample group to compare with another, a younger generation. We found both two groups had the same opinions and consistency to statistical result.

Science

Advisor's Signature \_\_\_\_\_

Mathematics and Computer Student's Signature

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# CONTENT OF ABBREVIATIONS

e-Commerce	Electronic Commerce
ICT	Information and Communication Technology
IT	Information Technology
KMO value	Kaiser-Meyer-Olkin value
MRA	Multiple Regression Analysis
OTOP	One Tambon One Product
OVOP	One Village One Product
PC	Principle Component
PEU	Perceived Ease of Use
RP	Reliability of Product
RW	Reliability of Website
SI	Social Influence
SMEs	Small-to-Medium Enterprises
ТАМ	Technology Acceptance Model
TICTPF (2011 – 2020)	Thailand Information and Communication Technology
	Policy Framework (2011 – 2020)
TRA	Theory of Reasoned Action
yrs. Chula	years

# Chapter 1.

In this chapter, the first section 1.1 has described the interesting problems and motivation. Section 1.2 stated the objectives then, section 1.3 discussed the scope and constraints of the thesis, following by the expected outcomes in section 1.4.

#### 1.1 Background and Importance

Nowadays, most Thai people know about the "OTOP" project and what this project is. The OTOP project is abbreviating from "One Tambon One Product." The concept of the project is to help to promote rural community goods, like silk and cotton garments, traditional handicrafts, ceramics or porcelains, accessories, food and household appliances from different districts which had the folk handicrafts gain a brighter future in the market share. The OTOP project was set up to the wide-open market and made an income to people in each community for improving their quality of lives. Thus, the main objective of the project is to create marketing's management with a strong sense among people and made the self-reliance lasting that would take a rooted deeply in the social structure. The word "product" in this research has meaning cover activities and services. Sometimes a product comes from the cooperation among a few Tambons; this means OTOP could have more than one category. Thus, the project covers most of the traditional products.

In the OTOP project development that several units of government are playing an important role. Thailand Information and Communication Technology Policy Framework (2011-2020) or TICTPF (Center, Agency et al. 2011), it was one of the policy frameworks which created the opportunities and expanded a market in business in term of entrepreneurs by promoting and developing the use of e-Commerce and ICT. From those supports refer to the social enterprises, SMEs, agricultural cooperatives, and enterprise networks, it is also improved services, the business process, trades, and market access, in perspective of improving the competitiveness and creating a network.

One Tambon One Product (OTOP) was a stimulus program for local entrepreneur and has inspiration from Japan's successful project (Natsuda, Igusa et al. 2012), One Village One Product (OVOP) program. A successful process such as Policy of regional development has motivated and given the strength to local business by helping the economic growth for people in the community and developing the local production by giving the opportunity to distribute their products to the global. A village community also encourages the OTOP project by improving the quality of community products and their marketing (Denpaiboon and Amatasawatdee 2012). To upgrading the business level of the local product, it should bring out the folk intelligence which the local artisans have provided by the government with both domestic and international of marketing management skills and advanced product knowledge that have been arranged to set up an intensive course by a specialist for them (Schumann 2016). In the long run, the government has supported in other forms for each group rather than subsidizing their product which tends to decrease the selfreliance of the community. For example, the Internet system usage and the chain stores set up are encouraged for extending their channels of distribution and market shares.

Therefore, for the entrepreneurs who are going to run the e-Commerce business which is appropriate to them that having only one webpage. They can trade every time for a day or trade 24 hours unstoppable every day, and it also seems like their stores are located everywhere in the world, which means the entrepreneur could reach directly to the customers and giving customers a suggestion to fix the problems. However, in Thailand, not many districts are having their own official OTOP website, like Lopburi province as in Figure 1, on the e-Commerce sales channel. While many districts still using the web portal which is easy for maintenance and could promote, advertised and distributed their goods such as Lnwshop.com and ThaiTambon.com as shown in Figure 2 – 3, respectively, but it cannot manage due to some constraints like having a limited distribution of contents or inflexible format. For instance, showing information or detail, some of the web portals could display only pictures while some of them could be displayed a few pictures and price information to sell the products. Thus, it would not make a 100 percent guaranteed for consumers that a product is the

real OTOP. In addition to the web portal might need to be paid to the web service provider before the entrepreneur could promote their products. In consequence, it would be benefits to make their official website and create their market channel for people in each community from different districts which this thesis purpose to understand and to research about factors influence on purchasing OTOP products on the official website via e-Commerce.





# เปิดร้านครั้มเดียว ได้ถึง 6 สาขา

้จะมีอะไรที่ว่ายกว่านี้อีก หากคุณลงสินค้าที่เดียว แต่สามารถขายได้ทุกช่องทางบนโลกออนไลน์



(www.Lnwshop.com)

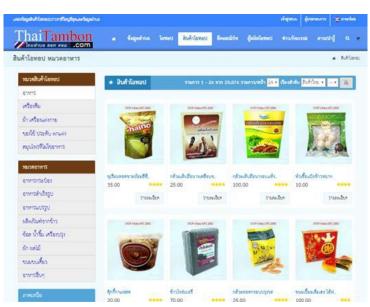


Figure 3. A sample of a web portal

(www.ThaiTambon.com)

#### 1.2 Objectives

To study, analyze and understand about the influencing factors, such as perceived ease of use, social influence, the reliability of the product, and reliability of website which are an influence to customer's purchasing intention. It would allow the possibility of making rural people to create their own OTOP product's official website for each province. Moreover, to experiments with users by collecting data from the actual usage through the given website.

#### 1.3 Scope of thesis and constraints

There are several assumptions to be considered, and the research problems can formulate as follow; What is the target group, how to design of questionnaires or survey form for interviewing participants and how many questions that appropriated, and what the statistical methodology are using for analyzing a data. Approaches to solving these problems, it will establish in the following chapter.

#### 1.4 Expected Outcome

Findings on how each factor affects the customer's purchasing intention. Moreover, the result from an experiment using eye-tracking which come from the real usage of the customer on official OTOP website has also supported the statistical data analysis with supporting reasons collecting by focus group method. Also, the result from doing the focus group should also be consistency to both previous methods.

#### 1.5 Thesis structure

This thesis is consisting of 4 main chapter, which chapter 1 provided the introduction. Chapter 2 provided the principle knowledge background and literature reviews. Chapter 3 explained the thesis methodology and analysis of the data and chapter 4 had discussed and conclusion the experimental results.



# Chapter 2. BACKGROUND

The intention to purchase a product defined as the possibility or probability of a customer to purchasing the products to understanding and explore the individual's performance of a certain behavior that user intended to determine and perform. In this chapter, section 2.1 has focused on information and related works about the Technology Acceptance Model which is the model to explain and predict the use of the system. For section 2.2, described the principle of eye tracking technique and its presentation. Followed by the factors that influence the purchasing intention included the reliability, perceived ease of use, and social influence, which explained as in section 2.3.

#### 2.1 Overview of the Technology Acceptance Model (TAM)

Since the studied of human behavior take action, As (Davis, Bagozzi et al. 1989), the social psychology theory was the most used for studied human behavior as a basis to present the Theory of Reasoned Action (TRA) which explained toward behavior by the relationship between attitudes and beliefs. The changing of human behavior was a result of the unaltered faith and going to behave since before human doing an action; they always considered the reasons (Corbitt, Thanasankit et al. 2003).

The Technology Acceptance Model (TAM) was adapted and used for assessing the user's computer acceptance from the Theory of Reasoned Action (TRA), where is the intention to use was stated by measuring the behavioral intention to use, perceived usefulness, and perceived ease of use. It is showing the perceived usefulness influence the intention to use strongly while perceived ease of use only has a slight impact on the intention to use. Meanwhile, those are having on the intention to use; the attitude is partly mediate the perceived ease of use and perceived usefulness (Davis 1989). Hence, the attitude is not playing as much as possible to be determinant influencing the variables. Thus, the model has adapted and removed the attitude variable which shown in TRA model as Figure 4. The modified model represented a mediator who is the intention that is influencing the relationship of those variables; perceived usefulness, perceived ease of use and usage behavior (Venkatesh and Davis 2000).

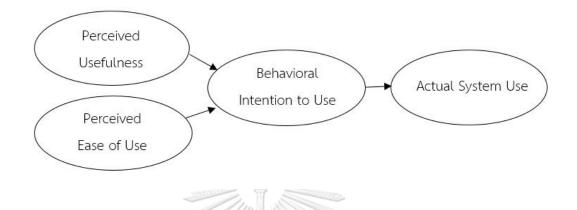


Figure 4. Theory of Reasoned Action (TRA) models with removed attitude variable

#### 2.2 Principal of Eye Tracking Technique and Presentation

An eye tracking is a technique to measure and observe eyes' movement of each user which made an observer knowing the point that user is looking at (Poole and Ball). In general, user feedback is used to measure what is perceived by the process. It is a way that cannot accurately reflect the process of perception while making decisions about what to do with something. On the other hand, an eye tracking can be a more accurate monitoring tool that not only reveals the recognition process but also helps to find some important information (Yang and Lin 2014). The eye tracking technique recorded the movement of the users' eyes when they viewed on the screen by the eye tracker, which has the following techniques (Sharma and Dubey 2014);

#### 2.2.1 Fixation

Fixation is a time when the eye has stopped in one area while reading the information. The more often fixation in that area, it can be said that the information read at the time was difficult to understand, or user is interested in it.

#### 2.2.2 Saccades

There is the moment when the eyeball scanned without reading a data. The regressive saccade is a move of an eye back to the original way. It occurs when the user may encounter a difficult reading.

#### 2.2.3 The gaze

The gaze occurs when an eyeball is looking at a specific position on the screen.

2.2.4 Scan path

It is a path to search for information.

#### 2.2.5 Blink rate and Pupil size

Using to measure the transfer of information about a wider pupil size recognition process which indicates the level of effort. In the low blink rate, recognition process might have a high workload while the high blink rate might indicate about fatigue in the eyes.

The data from the eyes' movement monitoring will make an understanding which part of the user interface is most viewed and analyzed by processing the data. Although the results of numerical computations are beneficial to understand the behavior of shoppers in many cases, the resultant image would be more understandable than the numerical results. The measuring from eye tracking would make users understand clearly by presenting what the site shows to users. To visualize the eyes' movement had recorded in the form of a video to demonstrate the behavior along with the measurement. The combination of numerical results and visual behaviors will make it more effective in researching behavior. Several techniques used to present the behavior (Wong, Bartels et al. 2014) and heat maps were one of those techniques which used in this research. It is a visualization of behavioral information

which using the color plot to present the density of visual behavior which the model was derived from the gaze or fixation point of the user as displayed in Figure 5.



Figure 5. A sample of Heatmap presentation (Breeze 2014)

#### 2.3 Reliability, Perceived Ease of Use, and Social Influence

This section provided the fundamental knowledge and basic concept of the variable which is an issue to the discussion in the next chapter with Reliability presented in section 2.3.1. Then, Perceived ease of use in section 2.3.2. Finally, Social Influence has drawn in section 2.3.3.

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#### 2.3.1 Reliability

Up to this moment, the concept had represented several marketing tools which is not only identified the product but trying to warrant the products' quality for the consumers. Thus, the label would be the major concept in the marketing field. By the way, to deal with this concept, it could be deal by a relatively few academic research works. According to the labeling which has been created by the public and para-public institutions that equally to the professional organizations. The label would have made reliable certificate of product's quality. The labels aim to provide high quality with the guarantee of authorities to products for consumers (Wee, Ariff et al. 2014). Creating the label refers to the setting of the verification system to indeed ensure that the product complies with the defined criteria.

#### 2.3.2 Perceived Ease of Use

Perceived Ease of Use, it measures user assessments of ease of use and ease of learning. So, it deals with the motivation of the user that based on the assessment of the internal aspect of using the IT, for example, its interface and the process involved in using it (D Gefen October, 2000). To referring perceived ease of use is the effort which made by individuals according to (Davis 1989), the system that a user found effortless could be defined by a degree which expressed the boundary of perceiving an innovation is difficult to understand or use. At best, ease of use could be translated as the complexity degree and scoping perceived effortless of the internet.

#### 2.3.3 Social Influence

Social influence is one way from several social aspects that impact the product purchasing intentions of the consumers. Refer to (Kim and Srivastava (2007 that has to focus on captured data of the social influence from e-Commerce platforms and described e-Commerce sites using this factor has effected on consumer's decision making. Related to product evaluations (Cohen and Golden 1972, Burnkrant and Cousineau 1975), the influence of informative social effect also supported by some studies on decision making. As referred by (Lee, Shi et al. 2011), apparently proving the informative social effect that has a positive impact on the online-purchasing decisions. Also, (Rashotte 2007) described social influence was about the feeling changing, thoughts, attitudes, and behaviors, even intentional or unintentional that influencing by other people. Due to the interaction or relationship between people which they have known each other for instance peers and parents which consumers would influence by those people or some media to purchasing products.

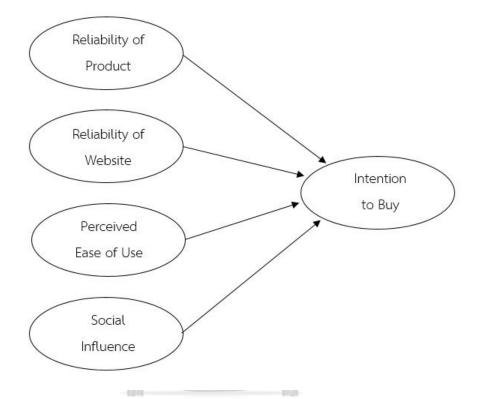


Figure 6. Technology Acceptance Model with influencing factors, such as Reliability of Product, Reliability of Website, Perceived Ease of Use, and Social Influence, on Intention to Buy of customers

# Chapter 3. METHODOLOGY AND DATA ANALYSIS

This chapter, the word "official website" was a website that is directly managing by the owner. The participant's information was collected and analyzed from the survey form to accomplish the hypotheses which described in section 3.1. Then follow by the process of the research with the proposed method, such as Reliability Analysis, Factor Analysis, and Regression Analysis in section 3.2, 3.3, and 3.4 respectively. In section 3.5, the eye tracking experimental was taken by eye tracking machine that giving users used an official OTOP website and observing their actual behavior. Moreover, then focus group technique was used to support and given the reasons to explain the result in section 3.6.

#### 3.1 Demographic Information

After having an interesting problem of why the user is choosing web portal rather than an official. The first phase of collecting the data started with the sample of 62 entrepreneurs and customers who interested in this field and come to doing a workshop and living in North Eastern of Thailand to answer a questionnaire which designed in the form of paperwork about the purchasing intention of OTOP product via using community site. We began to design our questions by considering closed questions for each category. Then, asking and ascertaining for choices among numeric quantities and nominal categories (e.g., "The average time you use the internet an hour per day?", "How long do you use the internet?", "What are you involved in OTOP?", "How often do you purchase products and services over the internet on your mobile?", "The highest amount you have ever purchased over the internet?", Etc) as in survey form of appendix A2. Next, we have rating scales for each category which consists of the reliability of the product, the reliability of the website, perceived ease of use, and social influence (Krosnick 1999). After that, we collected those data before passing to the second phase of the research that considered both of the knowledge of Internet usage and an Internet manipulation.

		Percentage of
Attributes		proportion
		(Number of
		population = 62)
Gender		
	Female	50.00
	Male	50.00
Age		
	21 - 30 yrs.	37.10
	31 - 40 yrs.	38.71
	41 - 50 yrs.	19.36
	51 - 60 yrs.	3.23
Relationship		
	Customer	88.71
R	Entrepreneur	9.68
Type of Purchasing Products	เหาวิทยาลัย Food	19.35
Chulalongkor	Clothes	56.45
	Accessories	22.58
	House Decoration	14.52
	Others	14.52
Purposed of Using the Internet		
	Communication	95.16
	Purchasing	62.90
	Following News	90.32
	Researches	79.03
	Others	80.65

Table 1. The percentage table of demographic information of participants

Using Internet Experience		
	1 - 2 yrs.	40.32
	3 - 4 yrs.	43.55
	5 - 6 yrs.	20.97
	≥ 6 yrs.	4.84
Buying online Experience		
	Yes	83.87
	No	14.52
1660	11/29	
Number of Buying Per month		
	1 - 2 times	69.35
	3 - 4 times	3.23
	≥ five times	8.06
		1

From the participant's data table as shown in Table 1, male and female were both 50.00 percent. The age segment's partition for 21 to 30, 31 to 40, 41 to 50, and 51 to 60 were 37.10, 38.71, 19.36, and 3.23 respectively. Moreover, a large partition of the age segment is ranged from 31 to 40 which is 38.71 percent. Moreover, 88.71 percent of all participants were most customers. Meanwhile, 9.68 percent and the rest were an entrepreneur and not identified. Also, 56.45 percent of participants are buying costume product mostly more than other categories. The experience in using the Internet of almost half of participants have 3 to 4 years which can count to 43.55 percent. Furthermore, 69.35 percent of them are all ever purchasing a product at least one times per month via e-Commerce.

#### 3.2 Reliability Analysis

Testing the internal consistency of the factors that have the reliability to each other is called reliability analysis. Referred to the product's reliability factor as displayed in Table 4 of appendix B, the survey found the mean score was highest at 4.2581 with a low standard deviation on the product's appearance which participants thought it had affected the purchasing. Moreover, the consistency between the high mean score and the low standard deviation shown that most of the participants also thought the updated website which always having up-to-date information and the web's reputation, a certification of the community site, would affect the purchasing decision. Furthermore, the result of the statistical analysis in perceived ease of use term shown the participants mostly do not think that they could take their knowledge to adapt and use to response their needs and understanding it because from their demographic information like age, which elder might be too old that made them remember worse than teenagers would. So that would be some explanations about consistency between high mean score and low standard deviation.

In usually (Brown 2002) explain three strategies for estimating reliability: (a) testretest reliability (e.g., calculating a reliability estimate by administering a test on two occasions and calculating the correlation between the two sets of scores). (b) Equivalent (or parallel) forms reliability (e.g., calculating a reliability estimate by administering two forms of a test and calculating the correlation between the two sets of scores), and (c) internal consistency reliability (e.g., calculating a reliability estimate based on a single form of a test administered on a single occasion using one of the many available internal consistency equations). The internal consistency strategy is the easiest logistically because it does not require administering the test twice or having two forms of the test.

A Cronbach alpha estimate (often symbolized by the lower case Greek letter alpha) should be interpreted just like other internal consistency estimates, that is, it estimates the proportion of variance in the test scores that attributed to true score variance. Put more simply, Cronbach alpha is used to estimate the proportion of variance that is systematic or consistent in a set of test scores. It can range from 0.00 (if no variance is consistent) to 1.00 (if all variance is consistent) with all values between 0.00 and 1.00 also being possible. For example, if the Cronbach alpha for a set of scores turns out to be 0.90 that can interpret as the meaning of the test is 90 percent reliable, and by extension that it is 10 percent unreliable.

In this section has calculated a Cronbach alpha that conducts to measure the inter-reliability on most variables which is another name for coefficient alpha reliability estimate. It was one of the most commonly reported reliability estimates in the language testing literature. The scores are range from 0.964 to 0.969 as shown in Appendix B, which is more than 0.70 the minimum acceptable level (Lance, Butts et al. 2006). Meanwhile, in this analysis, the items or questions would be deleted if they were not significant to fulfill the highest reliability of the measurement.

#### 3.3 Factor Analysis

In this phase, a Kaiser-Meyer-Olkin (KMO) values were used to measure the appropriateness of the data. In the sufficiency sampling of KMO measure has calculated as an initial statistical analysis as shown in Table 2, before passing to the factor analysis. It is usually displayed relative values by KMO coefficient between 0 and 1, it would be unnecessary if the value does not have correlation or the value has approaches 0. On the other hand, as shown in Table 2, the KMO value is closer to 1 which represented that the factor analysis was supported and related by these constructs. In common, it would be considered that factor analysis is suitable for data when the KMO value is greater than 0.7 (Sukati, Hamid et al. 2012).

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Variables	Kaiser-Meyer-Olkin's value
Reliability of Product	0.893
Reliability of Website	0.885
Perceived Ease of Use	0.793
Social Influence	0.728

Table 2. Kaiser-Meyer-Olkin's value from reliability analysis

		Compo	onents*	
	1	2	3	4
RP1		0.694		
RP2		0.749		
RP3	Non-	0.721		
RP4		0.636		
RW1	0.736			
RW2	0.719			
RW3	0.686			
RW4	0.752			
RW5	0.735	B		
PEU1	จหาลงกรณ์	มหาวิทยาลั	2	0.741
PEU2	Chulalongko			0.589
PEU3				0.856
SI1			0.624	
SI2			0.814	
SI3			0.803	

Table 3. Principal component analysis (Rotated component matrix)

\*Rotation converged in 8 iterations.

From calculated values shown in Table 3, they consisted of 3 steps. First, using correlation matrix to verify and considered the relationship among each variable. Second, extracting the factor, and thirdly, factor rotation. In this analysis, the Principal Component (PC) technique are used to extract factors for explaining variance as much information as possible by using a few questions. After doing a factor analysis, the questions have extracted by the Principal Component (PC) extraction technique and varimax rotation method in which the extraction result has removed to 15 variables from 19 variables. It is also classifying into four groups of factors that the first component named reliability of community website (RW), the second named reliability of product (RP), the third named social influence (SI) and the fourth named perceived ease of use (PEU). All of 4 factors have been giving an intended dimension with reliability and consistency measurement and unnecessary to eliminate the items appearing.

### 3.4 Regression Analysis

Up to this process, factors that influence the intention to purchase an OTOP product from the official community site are such a reliability of product (RP), reliability of website (RW), social influence (SI), or perceived ease of use (PEU) are measuring by the multiple regression analysis which R-square and standardized path loadings has included. The multiple regression analysis (MRA) is a statistical tool that allows examining how multiple independent variables are related to a dependent variable. Once it has identified how those multiple variables relate to the dependent variable, so it can take information about all of the independent variables and use it to make much more powerful and accurate predictions about why things are the way they are (Higgins 2005).

The analysis results of the purchasing intention on OTOP official website was significant. For reliability of the product, the reliability of the website, perceived ease of use and social influence factors are affecting significant to the purchasing intention at p < 0.01 with the beta coefficient were 0.259, 0.376, 0.490, and 0.555 respectively as in Figure 7. It was 75.6 percent of the variance in the purchasing intention when

those four factors, the reliability of the product, the reliability of the website, perceived ease of use and social influence, were count altogether. Meanwhile, the result also shown that factor named social influence is having the most effect on purchasing intention of product on the official community site, come up with perceived ease of use, the reliability of website and reliability of the product in the order.

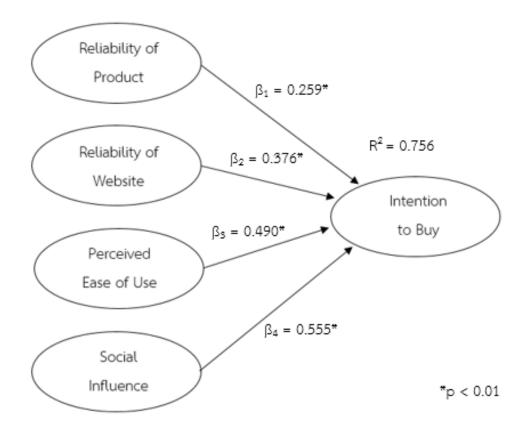


Figure 7. Multiple regression analysis with R-square and beta coefficients

## 3.5 Eye Tracking equipment

After data analysis process, the next step is to use an eye tracking equipment from an eye tracking company. This company called Tobii Group which its hardware and software are readily implemented with consumer's device such as a notebook or possibly even virtual reality or augmented reality products in the future. This technology is using user's eye as they usually would with an eye tracker that capture everywhere the user is looking at as we discussed in chapter 2. As we know from chapter 1, the Lopburi province was one example of many provinces that have their own official OTOP website. Thus, we decided to choose lopburi.org for this experiment. There are many reasons to use a lopburi.org official website, which has the most similarity to those web portal (e.g., Lnwshop.com and ThaiTambon.com). For example, having updated information, a beautiful appearance, social media channel like Facebook, which has link connected to the Facebook page, and using e-Commerce to trade the product as overall appearances displayed in Figure 8 – 11 below. As being a guideline to know about the lopburi.org website, such as a homepage of Lopburi's official OTOP website, product information, illustrations, customer's shopping cart preview, and summary ordering and payment method. While the others official website that had found, they do not update any information, not fixed any displayed error problems on the website. They are just shown pictures and details of the product without any channels to trade for the customer.





\_Figure 8. The homepage of Lopburi's official OTOP website

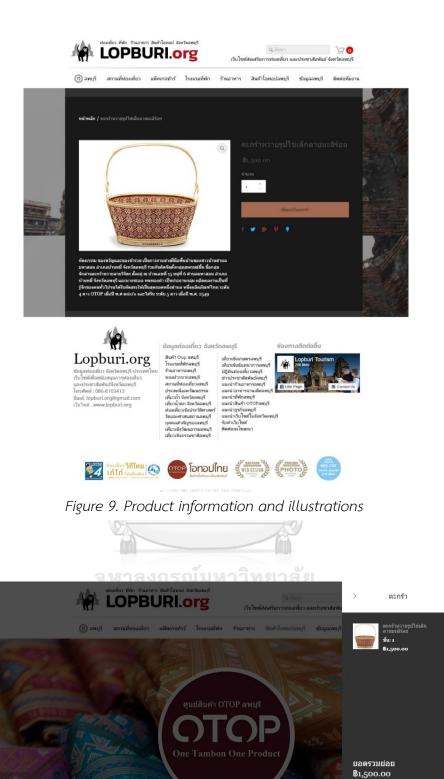


Figure 10. Customer's shopping basket preview

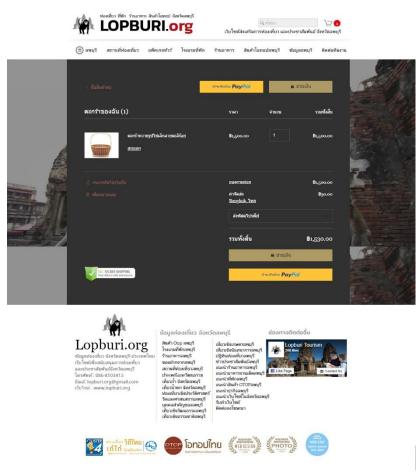


Figure 11. Summary ordering and payment method

Thus, doing an eye tracking is describing an eye movement of the user from the actual use of a website to study their behavior. For supporting the statistical effect that social is the most critical factor that influences user intention. So, we chose the Lopburi official website for experimenting the reasons that have been mentioned earlier for testing participants which amount of member depend on the conditions and timeliness of the limited use of the eye tracking machine. In this trial, 24 participants had included in the trial. The experiment was designed to allow users who had demographic information similarly to the participant in questionnaire part. We assigned each participant to complete tasks by assuming that they were a customer who never had seen this website before and wants to buy OTOP products from Lopburi province to give to their closed or acquaintance as gifts. So, we also assumed that they have found and chose this Lopburi.org website. Then, we gave participants to experiment and played an official website freely by themselves for checking the website and making them familiar with it until they decided to purchase a product. The task would finish after the participant done the ordering and going to buy a product or before each participant had to fill the privacy information in the payment process. All tasks had a limited time with a maximum of 15 minutes per participant.



Figure 12. First sampling journey from one of all participants who playing on OTOP official website (part 1)



Figure 13. First sampling journey from one of all participants who playing on OTOP official website (part 2 – by clicking on pink arrow button from part 1)



Figure 14. First sampling journey from one of all participants who playing on OTOP official website (part 3 – by scrolling down part 2)



Figure 15. First sampling journey from one of all participants who playing on OTOP official website (part 4 – by scrolled down part 3)



Figure 16. First sampling journey from one of all participants who playing on OTOP official website (part 5 – by scrolling down part 4)



Figure 17. First sampling journey from one of all participants who playing on OTOP official website (part 6 – by scrolling down part 5)



Figure 18. First sampling journey from one of all participants who playing on OTOP official website (part 7 – by going back to the top)



Figure 19. First sampling journey from one of all participants who playing on OTOP official website (part 8 – by clicking on "OTOP ลพบุรี" horizontal navigation bar)



Figure 20. First sampling journey from one of all participants who playing on OTOP official website (part 9 – by scrolling down part 8)

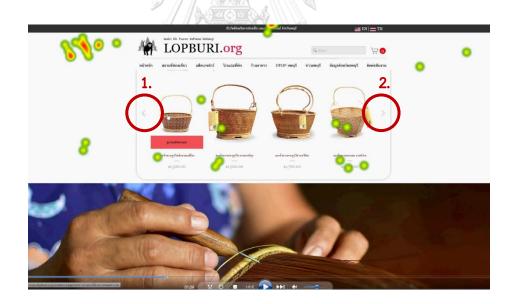


Figure 21. First sampling journey from one of all participants who playing on OTOP official website (part 10 – could click on red circle 1 and 2 to see another product of handicraft)

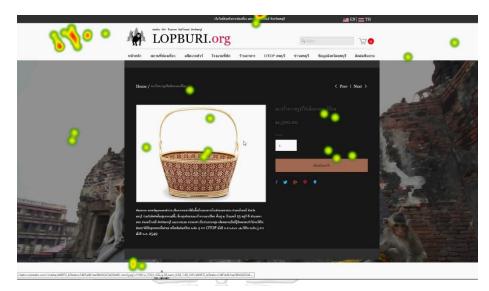


Figure 22. First sampling journey from one of all participants who playing on OTOP official website (part 11 – could see more information about the product by clicking on the red bar under the picture in part 10)

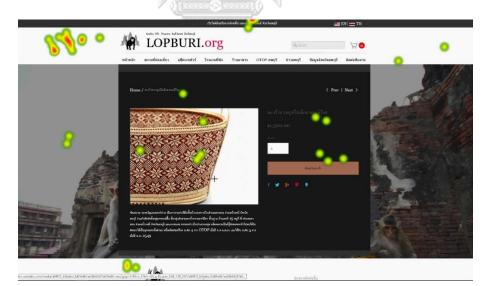


Figure 23. First sampling journey from one of all participants who playing on OTOP official website (part 12 – could zoom in and out of product picture by clicking and hold dragging around the picture)

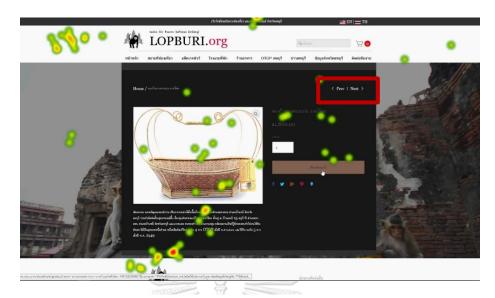


Figure 24. First sampling journey from one of all participants who playing on OTOP official website (part 13 – see previous or next product by clicking on navigator in the red box)

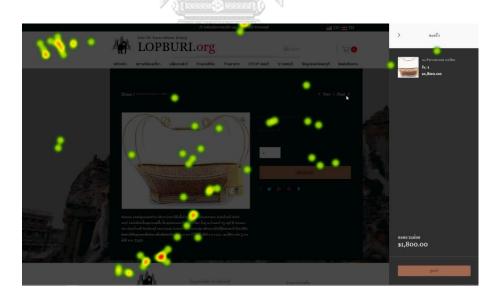


Figure 25. First sampling journey from one of all participants who playing on OTOP official website (part 14 – checking summary ordered on shopping cart by clicking on brown rectangle box in part 13)



Figure 26. First sampling journey from one of all participants who playing on OTOP official website (part 15 – participant go back to shop more)

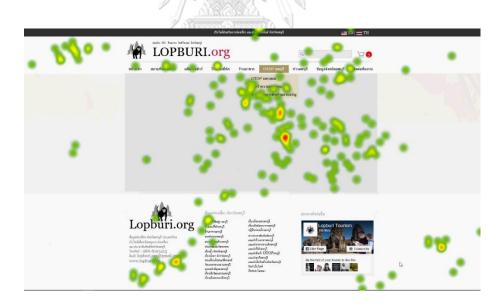


Figure 27. First sampling journey from one of all participants who playing on OTOP official website (part 16 – participant survey on the website again)

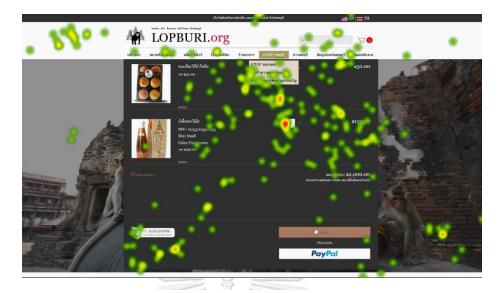


Figure 28. First sampling journey from one of all participants who playing on OTOP official website (part 17 – participant done the task)

As Figure 12 – 28 showing 17 parts of journey illustration of one user and others two sample as displayed in Appendix C, which sampling from all 24 participants who have played on Lopburi official OTOP website to complete a given task. From all three journeys, the machine has tracked their eye movement which most dense areas focused on the top navigation bar, middle-right, and bottom-left where that area had located logos, pictures, or contents. So, we can see that the bottom-right of the website mostly don't put any contents on it except the long-large banner and Facebook. However, according to the previous issue of the dense and sparse area, including with appendix D that is showing 24 screens captured and focusing a social media area based on the statistical result from each participant. The findings had explained that most users are not looking at the social media area, which is an inconsistency to their actions on the questionnaire part that concluded the social influence factor does have the most effect on their purchasing intention.

So, we should find out the reason to explain the conflict. Why does user not attend to the social influence as they had revealed in the survey? Are there other factors that made user ignored the social influence factor? That would discuss in the next section.

## 3.6 Focus Group

In this section, a focus group is a method which consists of a small group of people who discussed issues or topics that the researcher defined. A group could be four up to eight people facing each other, and then the researcher would introduce the issues for discussion and then asked and moderated discussion from members as shown in Figure 29. The key to this method is the interaction among members which differ from the interviewing method, which has an interaction between interviewee and interviewer only (Cameron 2005). Of which this research had gathered two groups of people and named old-generation and new-generation, according to (Fromm 2017), people who aged 36 to 51 years old has classified to Gen X and people who aged 20 to 35 years old classified into Gen Y or Millennials. Moreover, the participants in the old-generation group were gathered people with age around 40 to 45 years old which based on the demographic information as displayed in Table 1, section 3.1, and had experimented in eye tracking part before. While another one, new-generation group, was gathering young people with age around 20 to 25 years old to differentiate to another group.



Figure 29. A small group of people discussing topics defined by the researcher (https://www.usability.gov/how-to-andtools/methods/focus-groups.html)

As we mentioned in the previous section to find out the reason to explain the inconsistency between survey and eye tracking results. We have designed and formed 5 to 7 people into each group, old-generation and new-generation groups, to do a focus group with the topic of the factors that have influenced the customer's intention to buy. We have to talk and asking them some questions to make them more comfortable with each other, like "What are their names"?, "What are their favorite hobbies?", moreover, "Have they ever shopping online before?", Etc. Then, we are giving them more specific questions about what we interested in after each participant feel friendlier to each other and let them express and share their opinions to each member in a group, such as "What about their experiences of internet using?", "Have they ever purchase thing online?", "How they choose a website to buy the product?", "What factors would impact on them before decided to buy?", Moreover, "What they think about those factors that affect their decision," and so on. The result from doing a focus group of the member from old generation group, which had a discussion and shared their opinions had been said, as samples as shown in Figure 30.

Mostly members from the old-generation group have opinions in the same direction. An advertisement like videos or promoting posters, which hiring a famous people to promote a product, would make product trustworthy. Moreover, if the product has a condition that matches the description in those ads, it also improves reliability and makes it easy for customers to make purchases. In addition to ads, reviews, and comments from other customers experiences, which could have been heard from other people or could have been seen and read from the e-Commerce website directly, also increase reliability and help the customer make a purchasing decision easier. Meanwhile the new-generation was also given their opinions which similarly to old-generation group. Several samples of their opinions have shown in Figure 31. For example, they also told about having a review, which could be read on the website directly and needs to be a real-time review, or heard a recommend from other people and famous people that would increase reliability and make them easy for purchases, same as old-generation had been said before. Besides from having a review, hiring a star or famous people to promote product according to the trend at that time, like a drama fever, or BNK48 fever, to suitably use for each kind of product which is also attracted people and make an impact on their purchasing decision. Moreover, the designing and position of items on the webpage also make an impact on new-generation of people which they suddenly ignored things that seem to look like ads even though it has a famous people to promote or has a promotion.

According to those sample opinions from a member of each group in this section have discussed. We found that they were having an influence even on social media or third-party people, which we concluded about the social media that the social view/aspect is not limited to Facebook only. Even though, Facebook was a sample of successful e-Commerce startup, as (Linda 2010) had describes, with a focused differentiation and clear value proposition. The social media are going to be the communication forums of the internet varies which include applications such as email, instant messaging, and chat rooms and also internet sites such as social networking sites, blogs, photo, and video sharing sites such as Facebook, Twitters, Instagram, or YouTube. Moreover, it could come from even the friendship or word-of-mouth between people that had mentioned by (Manneh 2017).

"The website that have shown the social network such as Facebook or Instagram going to help them a lot for searching a review from real usage of the product."

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"If the official website having an advertisement of the product with star also going to increase the trust for making people decide to purchase more than only posting or announcing the product with a picture and its price."

"Moreover, if they have been invited or recommended by person they're already well-known or have seen the reviews the come from those people, it's really increase their purchasing decision of the product."

Etc.

Figure 30. A sample of members' opinions of the old-generation group

"A website should have an real-time recommended reviews to presented the product whatever it comes from a star comments, famous people, Facebook pages, or trustworthy blogging webpages which really matter on their purchasing decision."

"An official website should have a video or image movement such as .GIF image to show the production processes which might make the product to be more luxury."

"Hiring a star or famous people to promote product according to the trend at that time like drama fever or BNK48 fever to suitably use for each kind of product which is also attracted people and do impact on their purchasing decision."

"In addition, at this time the designing and position of an items on the webpage really do impact on new generation of people which they were suddenly ignored things that seem to looks like an ads even though it has a famous people to promote or has a promotion."

> จุฬาลงกรณ์มหาวิทยาลัย <sub>Etc.</sub>

Figure 31. A sample of members' opinions of the new-generation group

## Chapter 4. DISCUSSION AND CONCLUSION

From researchingthe usability factors which hav e an impact on the purchasing of OTOP products in Thailand with 62 participants on the official community site. The data from both entrepreneurs and customers in North Eastern of Thailand have collected by asking them about their opinions on purchasing a product and what they thought about the factors that they are thinking it has an effect to them for making the purchase decision. Then, multiple regression analysis methods analyzed the data, and the finding from data analysis has verified that the intention to purchase products on community site are having positively significant by those factors; social influence, perceived ease of use, the reliability of website and reliability of the product.

In this chapter, making an OTOP official community site following the ICT policy could be concluded that is helping a community people to do e-Commerce and forcing shopping behavior of customers to changes. Their purchase decision is no longer relied only on physical cue by the customer. Reliability of the product, the reliability of the website, social influence, and perceived ease of use which are the purchasing environment cue founding affect an intention to purchase of customer as a critical cue. The research has revealed those all factor was related positively to the intention of online purchasing of OTOP product. Based on statistical analysis given a conclusion that social influence factor is having the most effect on customer purchasing and from using eye tracking with 24 participants, it has found that the results from the actual use on the website of them which are the result of the heat map from the screen recording. The participants were less interested in social media than the rest of the site which conflicts with the results of statistical analysis.

However, from focus group part, both old-generation and new-generation group are giving their opinions about the social influence, which their opinions are entirely going in the same direction or having a consistency to the statistical result from surveying first part of the experimental. Even though, the eye tracking result giving the different direction that might cause from the position and designing of the website, as they said as in the last quote of Figure 31 had displayed. The consistency between both results, a surveying and focus group, could be concluded that the social influence is having the most impact to the purchasing intention of customers on a product via using an e-Commerce website.

Moreover, when studying the effect of social influence on the e-Commerce website that has been used in Thailand, such as Lazada, Aliexpress, Shopee, or Weloveshopping as displayed in appendix E. We found each site has shown its social media placement in the center of the page, which its reviews and comments sections are available and accessible for the customer to read. If the community site has developed for being acceptable by the user, the results should have strengthened the demand for developing design and quality of the product. Therefore, inducing people to use an OTOP official website, it should be a concern, pay more attention and improve about the website quality in the format of website usability, design and information quality by both developers and capitalist because it might affect an intention of online purchasing.

Furthermore, this thesis is having the limitation by itself and should be taken care of when generalizing findings. The factor which directly supports the intention of online purchasing was investigated and provided the initial results. However, it is only investigating some factors named; reliability of the product, the reliability of the website, perceived ease of use and social influence. Thus, the afterward study could investigate another dimension that was not comprehensive in this research, and the differentiating factor such as brand image, knowledge, and awareness would affect the perception of the customer on website quality. Howsoever, those are out with the scope of a factor that studied in this research. Thereby, we would introduce the afterward studied to investigate more factors, which affect the intention of online purchasing on the website and would be investigated more on others official websites.

Here is some rough idea we proposed by making a mock-up page according to focus group opinions. The features inspired from an existing e-Commerce website, which popular in Thailand, about the social influence factor which effects on purchasing intention that has to adapt and applies to develop or organize the elements of the website for making the page look attractive and refer to the user's comments. By the first idea, as shown in Figure 110, Appendix F, we having a video or image movement to show the production processes might increase their trust and also make the product to be more luxury and could be sharing. Another idea, as in Figure 111, Appendix F, is about moving a location of social element from the bottom-left and also having a recommended review that is a real-time review to make customer read it instantly instead of clicking on the social icon and linked to another page and some might need to login first and then could read comments. So, this is a just rough idea about some features that would be a challenge to the further work for better design on official OTOP website in Thailand.



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Appendix A1: Survey Form (TH version)



## <u>แบบสอบถาม</u>

## วัตถุประสงค์

แบบสอบถามนี้เป็นส่วนหนึ่งของโครงการวิจัย เรื่อง "การศึกษาพฤติกรรมของผู้บริโภคสินค้า OTOP ผ่านการให้บริการระบบพาณิชย์อิเล็กทรอนิกส์ (e-Commerce) บนเว็บไซต์" โดยข้อมูลจาก แบบสอบถามนี้จะเป็นความลับเพื่อใช้ในการวิเคราะห์ข้อมูลทางสถิติ จึงขอความอนุเคราะห์ท่านโปรด พิจารณาตอบข้อความและกาเครื่องหมายถูกในหัวข้อที่ตรงกับความคิดเห็นของท่าน การมีส่วนร่วม ของท่านมีความสำคัญอย่างยิ่ง ในการช่วยให้เราทราบข้อมูลต่างๆ ที่สำคัญต่องานวิจัย ซึ่งงานวิจัยนี้จะ เป็นประโยชน์อย่างมากต่อการพัฒนาประสิทธิภาพของการจัดการการตลาดเชิงเครือข่ายสังคม ออนไลน์ในอนาคต

การสำรวจนี้เป็นส่วนหนึ่งของการทำโครงงานวิทยาศาสตร์ระดับปริญญาโทของนางสาว กฤติกา อัคคะสาระกุล เลขประจำตัวนิสิต 5872634923 สาขาวิทยาการคอมพิวเตอร์และเทคโนโลยี สารสนเทศ ภาควิชาคณิตศาสตร์และวิทยาการคอมพิวเตอร์ คณะวิทยาศาสตร์ จุฬาลงกรณ์ มหาวิทยาลัย โดยแบบสำรวจนี้แบ่งออกเป็น 4 ส่วน ได้แก่

- ตอนที่ 1 ข้อมูลทั่วไปของผู้กรอกแบบสอบถาม
- ตอนที่ 2 ประสบการณ์การใช้อินเทอร์เน็ต (Internet Usage)
- ตอนที่ 3 ประสบการณ์และความคิดเห็นที่มีต่อการซื้อสินค้า OTOP ผ่านระบบพาณิชย์ อิเล็กทรอนิกส์ ของชุมชน (Community e-Commerce) ตอนที่ 4 คำถามเพิ่มเติมและข้อเสนอแนะ

ทั้งนี้ข้อมูลของท่านจะถูกเก็บไว้เป็นความลับและไม่นำไปใช้ในจุดประสงค์อื่น นอกเหนือจาก การทำวิจัยดังกล่าว ดังนั้นคณะผู้วิจัยจึงใคร่ขอความร่วมมือให้ท่านตอบแบบสำรวจอย่างตรงไปตรงมา ตามความเป็นจริง แบบสำรวจนี้ใช้เวลาในการตอบประมาณ 15 นาที

ขอขอบพระคุณท่านมา ณ โอกาสนี้ ที่กรุณาสละเวลาอันมีค่าของท่าน ในการตอบแบบ สำรวจของเรา <u>คำชี้แจง</u> กรุณาใส่เครื่องหมายถูกลงในช่อง □ หน้าข้อความที่ตรงกับข้อเท็จจริงหรือความคิดเห็นของ ท่านมากที่สุด

## <u>ตอนที่ 1 ข้อมูลทั่วไปของผู้กรอกแบบสอบถาม</u>

1. เพศ				
🗌 ชาย		🗌 หญิง		
2. อายุ 🗌 ต่ำกว่ 🗌 41 –	า 20 ปี 50 ปี	□ 21 – 30 ปี □ 51 – 60 ปี	<ul> <li>31 - 40 ปี</li> <li>61 ปีขึ้นไป</li> </ul>	
3. ท่านเกี่ยวข้องกั	ับโครงการหนึ่งต้	ำบลหนึ่งผลิตภัณฑ์ (OT	OP) ในฐานะอะไร	i
🗌 ผู้บริโ	ภค	🛛 ผู้ประกอบการ		
<u>ตอนที่ 2 ประสบก</u>	าารณ์การใช้อินเ	เทอร์เน็ต (Internet Us	age)	
4. ท่านใช้อินเทอร์	้เน็ตมาเป็นระยะ	ะเวลาเท่าใด		
🗌 ต่ำก	ว่า1 ปี	่ 1 − 2 ปี	🗌 3 – 4 ปี	
5 - 6	ว์ ปี	🗌 มากกว่า 6 ปี		
a	จุฬาส ๆ <u>ห</u> ลอบ ( ส	ลงกรณ์มหาวิทย ส่.ศ. ช่ว		
		เฉลี่ยเป็นชั่วโมงต่อวัน	ERSITY	<sup>1</sup> ~ <sup>2</sup> /
🗌 ตำกว่	า 2 ชั่วโมง	่ 2 - 4 ชั่วโมง	] 4 - 6 ชั่วโมง	🗌 6 ชั่วโมงขึ้นไป
6. ท่านใช้อินเตอร์	์เน็ตเพื่อวัตถุประ	ะสงค์ใด (ตอบได้มากกว่า	1 ข้อ)	
🗌 เพื่อติ	ดต่อสื่อสาร		🗌 เพื่อซื้อขาย	สินค้าและบริการ
🗌 เพื่อค้	้นคว้าหาข้อมูลเห	พื่อการศึกษาหรือการวิจัเ	🗉 🗌 เพื่อดูข้อมูล	เข่าวสาร
🗌 เพื่อค	วามบันเทิง		🗌 อื่นๆ (โปรด	າรະບຸ)
7. ท่านใช้อินเทอร์	้เน็ตบนมือถือหรื	่อไม่		
ใช้	🗌 ไม่ใช่			

8. ท่านใช้อินเทอร์เน็ตบนมือถือ ในเรื่	องใดบ้าง (ตอบได้มากก	าว่า 1 ข้อ)
🗌 เพื่อติดต่อสื่อสาร		🗌 เพื่อซื้อขายสินค้าและบริการ
🗌 เพื่อค้นคว้าหาข้อมูลเพื่อ	การศึกษาหรือการวิจัย	🗌 เพื่อดูข้อมูลข่าวสาร
🗌 เพื่อความบันเทิง / เล่นเ	กมส์	🗌 อื่นๆ (โปรดระบุ)
9. ปัจจุบัน ท่านใช้บริการเครือข่ายออ	อนไลน์ในการตัดสินใจเง่	งื่อซื้อสินค้าบ้าง (ตอบได้มากกว่า 1ข้อ)
Facebook		
🗌 Instagram	□ Twitter	
☐ Weloveshopping	. 🗌 อื่นๆ (โปรด	ระบุ)
10. สถานที่ที่ท่านใช้อินเทอร์เน็ตเป็น	ประจำ (ตอบได้มากกว่า	า 1 ข้อ)
🗌 บ้าน	] ที่ทำงาน	🗌 ร้านที่ให้บริการ
🗌 สถานศึกษา 🦳	. 🗌 อื่นๆ (โปรดระบุ)	
11.ปัญหาและอุปสรรคที่ท่านพบในก	ารใช้งานอินเทอร์เน็ต (เ	ตอบได้มากกว่า 1 ข้อ)
🗌 ปัญหาด้านการใช้ภาษาย้	วังกฤษในการเข้าถึงแหล	่งข้อมูลและติดต่อสื่อสาร
🗌 ปัญหาด้านการดาวน์โหล	าดข้อมูลล่าช้า	
🗌 ปัญหาเรื่องอัตราค่าบริก	ารอินเทอร์เน็ตของผู้ให้	บริการยังคงสูงอยู่
🗌 ปัญหาด้านเวลาที่ไม่เอื้อส	อำนวยต่อการใช้งาน	
🗌 อื่นๆ (โปรดระบุ)	การณ์มหาวิทยา	
12. ท่านเคยมีประสบการณ์ในการซื้อ	วสินค้าและบริการผ่านอิ	นเทอร์เน็ตหรือไม่
🗌 เคย 🗌 ไม่เคย	ม (ข้ามไปข้อ19)	
13. ท่านเคยมีประสบการณ์ในการซื้อ 🗌 เคย 🛛 ไม่เคย	วสินค้าและบริการผ่านอิ (ข้ามไปข้อ 19)	นเทอร์เน็ตบนมือถือหรือไม่
14. หากเคยท่านซื้อสินค้าและบริการ 🏾 1 - 2 ครั้งต่อเดือน 🔲		ถือบ่อยแค่ไหน มากกว่า 5 ครั้งต่อเดือนขึ้นไป
15. หากให้ท่านเลือก ท่านจะเลือกซี้เ	อสินค้าผ่านเว็บไซต์หรือ	ผ่านมือถือ
🗌 เว็บไซต์ 🗌 มือถือ		

# <u>ตอนที่ 3 ประสบการณ์และความคิดเห็นที่มีต่อการซื้อสินค้า OTOP ผ่านระบบพาณิชย์</u> อิเล็กทรอนิกส์ ของชุมชน (Community e-Commerce)

16. สินค้า OTOP ที่ท่านเคยสั่งซื้อผ่านอินเทอร์เน็ต (ตอบได้มากกว่า 1 ข้อ)
🗌 อาหาร / เครื่องดื่ม 🛛 ผัก / ผลไม้ / ดอกไม้สด 🗌 เครื่องแต่งกาย
🗌 เครื่องประดับ 🗌 ของตกแต่งบ้าน 🗌 อื่นๆ (โปรดระบุ)
17. ท่านชำระเงินในการสั่งซื้อสินค้าและบริการผ่านทางอินเทอร์เน็ต ด้วยทางใดบ้าง
(ตอบได้มากกว่า 1 ข้อ)
🗌 บัตรเครดิต / เดบิต 🗌 โอนเงินเข้าบัญชี 🛛 🗌 เงินสด
🗌 บริการ Internet Banking หรือ Payment Gateway 🛛 อื่นๆ (โปรดระบุ)
18. จำนวนเงินมากที่สุดที่ท่านเคยสั่งซื้อสินค้าผ่านทางอินเทอร์เน็ต
🗌 ต่ำกว่า 2,บาท 000 🛛 2,000 - 3,บาท 999 🗌 4,000 - 5,บาท 999
🗌 6,000 - 7,บาท 999 🔲 8,000 - 9,บาท 999 🔲 10,บาทขึ้นไป 000
19. หากในอนาคตท่านมีโอกาสสั่งซื้อสินค้าและบริการผ่านระบบ e-Commerce ท่านจะซื้อหรือไม่
20. ท่านคิดว่าเหตุผลใดที่ทำให้ท่านเลือกซื้อสินค้าผ่านระบบ e-Commerce (เลือกได้มากกว่า 1 ข้อ)
🗋 ราคาถูก 📄 สะดวกสบาย / ไม่มีเวลาไปห้างสรรพสินค้า
🗌 เพื่อนแนะนำ 🔲 สินค้าไม่มีวางขายตามร้านค้าทั่วไป
มีความน่าเชื่อถือ อื่นๆ (โปรดระบุ)
21. ท่านคิดว่าปัจจัยใดมีผลต่อการตัดสินใจซื้อของผู้บริโภคมากที่สุด (ตอบเพียงหนึ่งข้อ)
🗌 ปัจจัยด้านผลิตภัณฑ์ 👘 🗍 ปัจจัยด้านราคา
🗌 ปัจจัยด้านช่องทางการจัดจำหน่าย 🛛 ปัจจัยด้านการส่งเสริมการตลาด
22. ท่านคิดว่าผู้ผลิต / ผู้จำหน่าย ควรปรับปรุงปัจจัยการผลิตสินค้าด้านใดมากที่สุด (ตอบเพียงหนึ่งข้อ)
(ตอบเพองทนงขอ)
<ul> <li>ปัจจัยด้านช่องทางการจัดจำหน่าย</li> <li>ปัจจัยด้านการส่งเสริมการตลาด</li> </ul>

23. ความคิดเห็นเกี่ยวกับปัจจัยที่ส่งผลต่อการตัดสินใจซื้อสินค้าผ่านเว็บไซต์ของชุมชนสำหรับสินค้า OTOP (Community e-Commerce)

	ไม่เห็นด้วย	ค่อนข้าง		ค่อนข้าง	เห็นด้วย
ปัจจัยที่ส่งผลต่อการตัดสินใจซื้อสินค้า OTOP	อย่างยิ่ง	ไม่เห็นด้วย	ไม่แน้ใจ	เห็นด้วย	อย่างยิ่ง
	1	2	3	4	5
การรับรู้ถึงความนำเชื่อถือของตัวสินค้า	งตัวสินค้า				
ท่านศิตว่าสินค้าที่มีการแสดงตราและรายละเอียตมีผลต่อการเลือกซื้อสินค้า					
ท่านคิดว่าสินค้าที่มีการแสดงเครื่องหมาย OTOP มีผลต่อการเลือกซื้อสินค้า					
ท่านคิดว่าสินค้าที่มีการแสดงเครื่องหมายที่ผ่านการตรวจสอบคุณสมบัติหรือ					
คุณลักษณะต่างๆ ตามมาตรฐาน (อย. / อื่นๆ) มีผลต่อการเลือกซื้อสินค้า					
ท่านคิดว่าสินค้าที่มีการแสดงเครื่องหมายรับรองความเหมาะสมต่อกลุ่มผู้บริโภค					
เฉพาะ ( ฮาลาล / ภูมิแพ้ / อื่นๆ) มีผลต่อการเลือกซื้อสินค้า					
ท่านดิตว่ารูปลักษณ์ของสินค้า มีผลต่อการเลือกซื้อสินค้า					
ท่านดิตว่าราคาของสินด้า มีผลต่อการเลือกซื้อสินค้า					
การรับรู้ถึงความน่าเชื่อถือของตัวเว็บไซต์	ตัวเว็บไซต์				
ท่านศิตว่าชื่อเสียงของเว็บไซต์ชุมชนมีความสำคัญต่อการเลือกซื้อสินค้า					
ท่านคิดว่าเว็บไซต์ขุมชนที่มีการแสดงสัญลักษณ์ยืนยันการจดทะเบียน E-Commerce					
(DBD register) มีผลต่อการเลือกซื้อสินค้า					
ท่านศิลว่ารูปแบบของเว็บไซต์ชุมชนที่ใช้งานง่าย มีผลต่อการเลือกซื้อสินค้า					
ท่านศิตว่าความสวยงามของเว็บไซต์ มีผลต่อการเลือกชี้อสินค้า					
ห่านศิตว่าเว็บไซต์ชุมชนที่มีการอัพเตทข้อมูลให้ทันสมัยตลอดเวลามีผลต่อการเลือกซี้อสินค้า					
ท่านศิตว่าชื่อเสียงของเว็บไซต์มีความสำคัญในการเลือกขึ้อสินค้า <u>อึก</u> ในอนาคต					

ห่านเห็นด้วยหรือไม่ กับเว็บไซต์ชุมชนสามารถทำความเข้าใจและเรียนรู้การใช้งานได้ด้วยตัวเอง
3 [최금해하키도(중하마핵) 3월1.9년 1
ท่านศิตว่าเว็บไซต์ชุมชนสามารถเข้าถึงข้อมูลบนอินเทอร์เน็ตได้ง่าย
ท่านคิดว่าการเข้าสู่เว็บไซต์ขุมชนบนเครือข่ายสังคมออนไลน์เป็นเรื่องง่าย
ห่านศิตว่าท่านสามารถนำความเข้าใจและความรู้ในการใช้งานมาปรับเปลี่ยนให้เข้า
กับความต้องการของท่านได้ด้วยตัวท่านเอง
การรับรู้เซิงสังคม
ห่านเห็นด้วยหรือไม่ที่บุคคตในสังคมทั่วไปมีผลต่อการเลือกซี้อสินค้า
ท่านเห็นด้วยหรือไม่ ที่กระแสในการซื้อสินค้าผ่านเว็บไซต์ชุมชนในสังคมมีผลต่อ
การเลือกซื้อสินค้า
ห่านเห็นด้วยหรือไม่ที่บุคคลที่มีอิทธิพลต่อท่านมีผลต่อการเลือกซื้อสินค้า
ความตั้งใจในการซื้อสินค้า
ห่านจะเลือกใช้เว็บไซต์ของซุมชนอีกในการเลือกซื้อสินค้า
ห่านวางแผนที่จะเสีอกซื้อสินค้าจากเว็บไซต์ของชุมชนภายในเร็วๆ นี้
ห่านวางแผนจะซื้อสินค้าจากเว็บไซต์ของขุมชนในระยะยาวข้างหน้า

# 24. โปรดเรียงอันดับเหตุผลดังต่อไปนี้ที่ช่วยท่านในการตัดสินใจเลือกซื้อสินค้า OTOP จาก 1 ถึง 4

เหตุผล	อันดับ
1. ความน่าเชื่อถือของเว็บไซต์	
2. ความน่าเชื่อถือของสินค้า	
3. คำแนะนำจากบุคคลรอบข้าง	
4. มีความสะดวกสบายในการซื้อสินค้า	

# <u>ตอนที่ 4</u> คำถามเพิ่มเติมและข้อเสนอแนะ

25. ข้อเสนอแนะเพิ่มเติมที่ท่านอยากให้มีการปรับปรุงในเว็บไซต์ของชุมชุนสำหรับสินค้า OTOP
(Community e-Commerce)
Communication (C)
จุฬาลงกรณ์มหาวิทยาลัย
CHULALONGKORN UNIVERSITY

#### Appendix A2: Survey Form (EN - translated version)



#### Survey Form

## Objective

This questionnaire is one part of a research project entitled "Factors Influencing Intention to Purchase Local Community Product on e-Commerce Website: Case of One Tambon One Product (OTOP) in Thailand." The data from this questionnaire will be confidential for statistical analysis. Please consider the message and checking the box corresponding to participant's opinions. The participation is very important to help us know the information for helping the research, and it will greatly benefit the development of effective online social marketing management.

This survey is a part of Master's degree thesis of Miss Krittika Akasarakul, student ID 5872634923, Major in Computer Science and Information Technology, Department of Mathematics and Computer Science, Faculty of Science, Chulalongkorn University. In this survey is divided into four sections.

Section 1 General Information of participants Section 2 Participant's Internet Usage Section 3 Experiences and Opinions on the OTOP Product Purchasing through Community e-Commerce

Section 4 Additional Questions and Suggestions

To ensuring, the information will be kept confidential and will not use for other purposes, except for this research. Therefore, the researcher would like to cooperate with the participant to answer the survey straightforwardly. This survey would take about 15minutes to complete.

Thankful for paying a precious time to response our survey.

<u>Notice</u>, Please fill the checkbox in  $\Box$  that indicate the most matching to your opinions.

## Section 1 General Information of participants

1. Gender	
🗌 Male	E Female
2. Age	
$\Box \leq 20$ yrs.	□ 21 – 30 yrs. □ 31 – 40 yrs.
☐ 41 – 50 yrs.	□ 51 – 60 yrs. □ ≥ 61 yrs.
3. What are you involved abo	out OTOP?
Customer	
Section 2 Participant's Inter	rnet Usage
2	
4. How long do you use the i	internet?
□ ≤ 1 yr.	□ 1 – 2 yrs. □ 3 – 4 yrs.
□ 5 – 6 yrs.	$\Box \ge 6$ yrs.
5. The average time you use	the internet an hour per day?
	$\square$ 2 - 4 hrs. $\square$ 4 - 6 hrs. $\square$ ≥ 6 hrs.
6. Do you use the Internet fo	r any purpose? (Answer more than one)
□ For communication	n $\Box$ For selling goods and service
$\Box$ For researching	$\Box$ For information and news
$\Box$ For entertaining	Others (please specific)
7. Do you use the mobile inte	ernet?
Yes No	

8. Do v	vou use t	he mobile	internet ir	n what way?	(Answer	more than	one)
0.00	,				0.00000		0

☐ For communication	$\square$ For selling goods and service
$\Box$ For researching	$\square$ For information and news
Ever the second	Others (please specific)

9. Currently, what online network do you use to make a purchase decision? (Answer more than one)

Facebook		
🗌 Instagram	🗌 Twitter	
Weloveshopping	Others (p	olease specific)
10. Where you regularly use t	the internet? (Answe	r more than one)
Home	□ Office	Service shop
Academy	$\square$ Others (please s	pecific)
11. Problems you have found	d in using the interne	et? (Answer more than one)
The problem with	using English to acc	ass resources and to comm

		The	problem	with	using	English	to	access	resources	and	to	communic	ate
--	--	-----	---------	------	-------	---------	----	--------	-----------	-----	----	----------	-----

- Delayed download issues
- $\Box$  The internet service fee of the service provider is still high
- $\Box$  The problem of time unfavorable to use
- Others (please specific)
  - Chulalongkorn University

12. Have you ever had the experience of buying goods and services over the internet?

	Yes	🗌 No (skip to 19.)
--	-----	--------------------

13. Have you ever had the experience of buying goods and services over the internet on your mobile?

Yes	No	(skip	to	19.)
-----	----	-------	----	------

14. How often do you purchase products and services over the internet on your mobile?

□ 1 - 2 times/mo. □ 3 - 4 times/mo. □  $\ge$  5 times/mo.

15. If you can choose, which one do you choose to purchase product between website or mobile?

Website	Mobile

## Section 3 Experiences and Opinions on the OTOP Product Purchasing through Community e-Commerce

16. Which category of OTOP products that you have purchased over the internet (Answer more than one)

- □ Food / Beverage Vegetables / Fruits / Flowers
- Clothes Accessories
- Others (please specific)..... Home decoration

17. Which way have you paid for goods and services over the internet? (Answer more than one)

Credit / Debit card Account transfers Cash

Internet Banking / Payment Gateway  $\Box$  Others (please specific).....

18. The highest amount you have ever purchased over the internet?

 $\Box \leq 2,000$ Baht  $\Box 2,000 - 3,999$ Baht  $\Box 4,5 - 000,999$ Baht

□ 6,7 - 000, 999Baht □ 8,9 - 000, 999Baht □ ≥ 10, 000Baht

19. If the future you could purchase goods and services through e-Commerce, would you purchase?

Yes No

20. What is the reason that makes you purchase products via e-Commerce? (Answer more than one)

Low price

Convenient

- Friends recommend
- $\Box$  Not sold by the general store
- Trustworthy
- Others (please specific).....

21. What factors do you think has the most impact on consumer purchasing decisions? (Only one answer)

Products Price

 $\Box$  Distribution channel

Marketing promotions

22. Which of the following that you think manufacturers/suppliers should improve the most? (Only one answer)

Price

Products

Distribution channel

☐ Marketing promotions



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23. Opinions about factors which influencing OTOP products purchase via Community e-Commerce website

	Strongly				Strongly
Factors influencing OTOP purchase decision	Disagree	Disagree	Neutral	Agree	Agree
	1	2	3	4	5
Reliability of Product					
Do you think that merchandise with badges and details affect the purchase					
Do you think the product that have OTOP trademark affect the purchase					
Do you think that products which have been marked with a qualification check or					
standard feature (such as FDA marked) affect purchasing product					
Do you think that products that has been labeled a marked which fit for a specific					
consumer group (such as Allergen labelling or Halal labelling) has effect purchasing					
product					
Do you think that the appearance of the products affects purchasing product					
Do you think that the price of the products affects purchasing product					
Reliability of Website					
Do you think the reputation of a community site is important to customer purchasing					
Do you think that community sites that display the E-Commerce registration badge					
(Department of Business Development registration) affect purchasing product					
Do you think that the format or pattern of the easy-to-use community site affects					
purchasing product					
Do you think that the beauty of a community site affects purchasing product					

Do you think that community sites that have updated information all the time affect
purchasing product
Do you think the reputation of the community sites is important to effect purchasing
product
Perceived Ease of Use
Do you agree that the community sites which you could understand and learn by
yourself have affect purchasing product
Do you think community sites can easily access information on the internet
Do you think accessing the community site on a social networking site is easy
Do you think that you can bring your understanding and knowledge to use and adapt to
your needs by yourself
Social Influence
Do you agree that the general public people affects purchasing product
Do you agree that the flow of purchases through community sites on social networking
affects purchasing product
Do you agree that the person who influences you affects purchasing product
Intention to Purchase
You will use the community site to make purchases again
You are planning to shop from the community site soon
You are planning to buy from the community site in the long-term

24. Please rank the following reasons to help you make a purchase decision on OTOP products from 1 to 4.

Reasons	Rank
1. Reliability of website	
2. Reliability of products	
3. Social influence	
4. Convenient to purchase	

## Section 4 Additional Questions and Suggestions

25. Additional suggestions you would like to have on the website of Community for OTOP. (Community e-Commerce)

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					Cronbach's		Cronbach's
	acom	Standard	Z	Cronbach's	Alpha based on	N of	Alpha If
	ואובמו	Deviation	z	Alpha	Standardized	ltems	ltem
					ltems		Deleted
Reliability of Product							
- (PT1) Do you think that products which	4.1613	0.94424	62	0.967	0.969	19	0.964
have been marked with a qualification							
check or standard feature (such as FDA							
marked) affect purchasing product							
- (PT2) Do you think that products that	4.0968	0.93580	62	0.967	0.969	19	0.965
has been labeled a marked which fit for							
a specific consumer group (such as							
Allergen labelling or Halal labelling) has							
effect purchasing product							
- (PT3) Do you think that the appearance	4.2581	0.93975	62	0.967	0.969	19	0.965
of the products affects purchasing							
product							

Table 4. Reliability Statistical Analysis Data

Appendix B: Data Tables of Reliability Statistical Analysis

<ul> <li>(PT4) Do you think that the price of the products affects purchasing product</li> </ul>	4.1935	1.05331	62	0.967	0.969	19	0.967
Reliability of Website (WT1) Do you think the reputation of a community site is important to	3.9839	1.19414	62	0.967	696.0	19	0.967
customer purchasing - (WT2) Do you think that community sites that display the E-Commerce registration badge (Department of	4.0323	0.95759	62	0.967	0.969	19	0.965
Business Development registration) affect purchasing product (WT3) Do you think that the format or pattern of the easy-to-use community	4.1613	1.07419	62	0.967	0.969	19	0.965
site affects purchasing product - (WT4) Do you think that the beauty of a community site affects purchasing	a 4.1129	0.97686	62	0.967	0.969	19	0.966
product - (WT5) Do you think that community sites that have updated information all the time affect purchasing product	4.3226	0.90126	62	0.967	0.969	19	0.965

Perceived ease of use							
- (EU1) Do you think community sites can	3.8065	1.00554	62	0.967	0.969	19	0.965
easily access information on the internet	t.						
- (EU2) Do you think accessing the	3.7419	1.14427	62	0.967	0.969	19	0.966
community site on a social networking							
site is easy							
- (EU3) Do you think that you can bring	3.7581	1.09672	62	0.967	0.969	19	0.969
your understanding and knowledge to							
use and adapt to your needs by							
yourself							
social influence							
- (SI1) Do you agree that the general	3.7581	0.93538	62	0.967	0.969	19	0.965
public people affects purchasing							
product							
- (SI2) Do you agree that the flow of	3.8871	0.87037	62	0.967	0.969	19	0.965
purchases through community sites on							
social networking affects purchasing							
product							
- (SI3) Do you agree that the person who	3.7903	0.96048	62	0.967	0.969	19	0.965
influences you affects purchasing							
product							
	-						

Appendix C1: The second journey from the second participant who had been sampling from all 24 participants and had played an OTOP official website



Figure 32. Second sampling journey from one of all participants who playing on OTOP official website (part 1)



Figure 33. Second sampling journey from one of all participants who playing on OTOP official website (part 2 – by scrolling down the page from part 1)



Figure 34. Second sampling journey from one of all participants who playing on OTOP official website (part 3 – by scrolling down the page from part 2)



Figure 35. Second sampling journey from one of all participants who playing on OTOP official website (part 4 – by scrolling down the page from part 3)

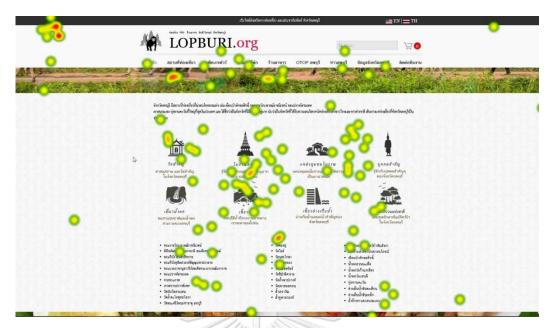


Figure 36. Second sampling journey from one of all participants who playing on OTOP official website (part 5 – by scrolling down the page from part 4)



Figure 37. Second sampling journey from one of all participants who playing on OTOP official website (part 6 – by scrolling down the page from part 5)



Figure 38. Second sampling journey from one of all participants who playing on OTOP official website (part 7 – by scrolling down the page from part 6)



Figure 39. Second sampling journey from one of all participants who playing on OTOP official website (part 8 – by scrolling down the page from part 7)



Figure 40. Second sampling journey from one of all participants who playing on OTOP official website (part 9 – by scrolling down the page from part 8)



Figure 41. Second sampling journey from one of all participants who playing on OTOP official website (part 10 – by clicking "OTOP ลพบุรี" in the top navigation



Figure 42. Second sampling journey from one of all participants who playing on OTOP official website (part 11 – by scrolling down the page from part 10)



Figure 43. Second sampling journey from one of all participants who playing on OTOP official website (part 12 – by scrolling down the page from part 11)



Figure 44. Second sampling journey from one of all participants who playing on OTOP official website (part 13 – by scrolling down the page from part 12)



Figure 45. Second sampling journey from one of all participants who playing on OTOP official website (part 14 – by scrolling down the page from part 13)

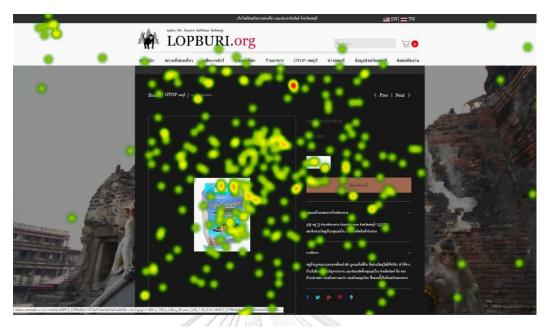


Figure 46. Second sampling journey from one of all participants who playing on OTOP official website (part 15 – by clicking on the product to see more



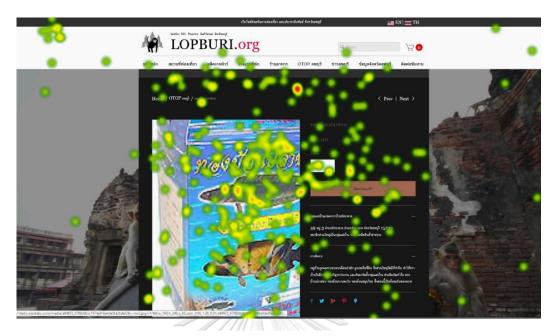


Figure 47. Second sampling journey from one of all participants who playing on OTOP official website (part 16 – by clicking and hold dragging to zoom in and zoom out the product picture)



Figure 48. Second sampling journey from one of all participants who playing on OTOP official website (part 17 – by scrolling down the page from part 16)



Figure 49. Second sampling journey from one of all participants who playing on OTOP official website (part 18 – participant go back to shopping for more



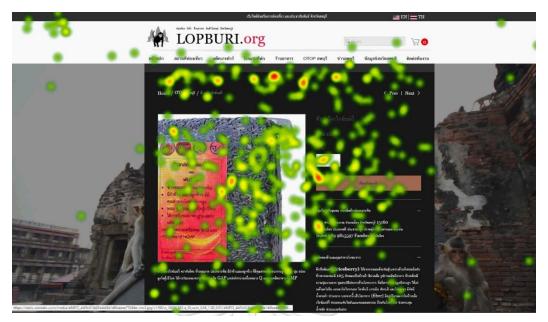


Figure 50. Second sampling journey from one of all participants who playing on OTOP official website (part 19 – participant selected product and zoom in to see the detail of product picture)

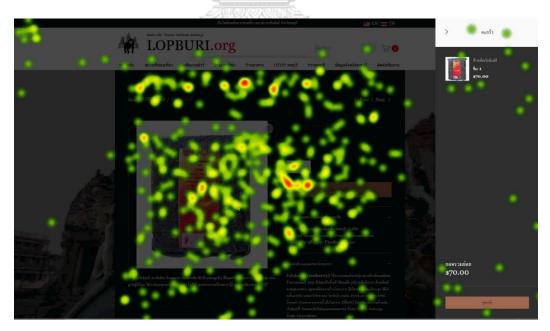


Figure 51. Second sampling journey from one of all participants who playing on OTOP official website (part 20 – user checked product list in shopping cart)

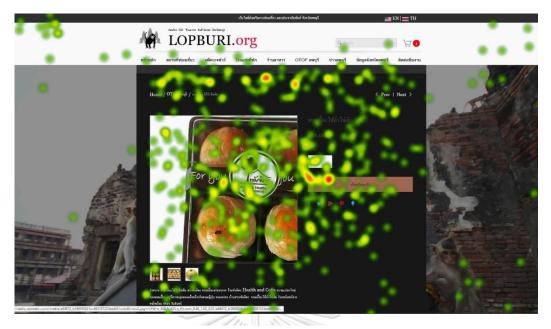


Figure 52. Second sampling journey from one of all participants who playing on OTOP official website (part 21 – user go back and continue shopping)

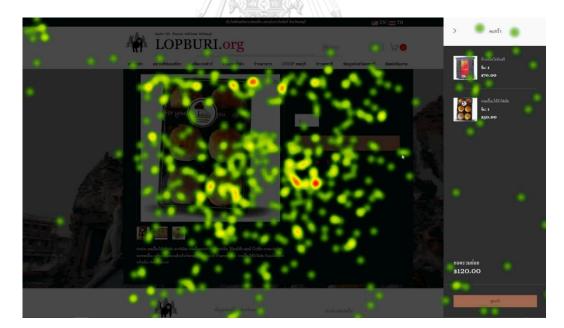


Figure 53. Second sampling journey from one of all participants who playing on OTOP official website (part 22 – user checked product list in shopping cart

again)

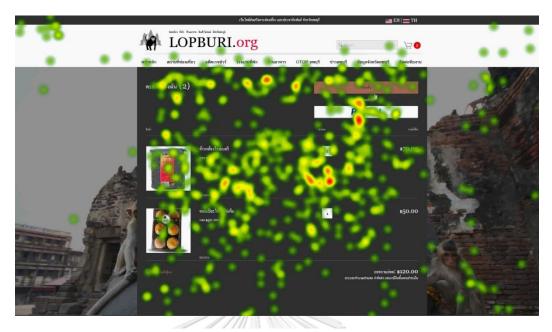


Figure 54. Second sampling journey from one of all participants who playing on OTOP official website (part 23 – user did the task)



Appendix C2: The third journey from the third participant who had been sampling from all 24 participants and had played an OTOP official website.



Figure 55. Third sampling journey from one of all participants who playing on OTOP official website (part 1)



Figure 56. Third sampling journey from one of all participants who playing on OTOP official website (part 2 – user clicking on the arrow button in red circle)



Figure 57. Third sampling journey from one of all participants who playing on OTOP official website (part 3 – user observed the shopping cart)



Figure 58. Third sampling journey from one of all participants who playing on OTOP official website (part 4 – user close the shopping cart and scroll down the page from part 2)



Figure 59. Third sampling journey from one of all participants who playing on OTOP official website (part 5 – user scroll down the page from part 4)



Figure 60. Third sampling journey from one of all participants who playing on OTOP official website (part 6 – user scroll down the page from part 5)



Figure 61. Third sampling journey from one of all participants who playing on OTOP official website (part 7 – user scroll down the page from part 6)

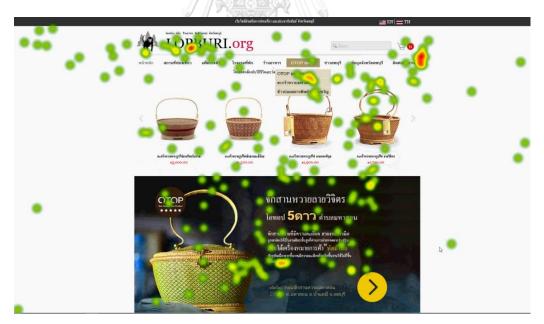


Figure 62. Third sampling journey from one of all participants who playing on OTOP official website (part 8 – user scroll down the page from part 7)



Figure 63. Third sampling journey from one of all participants who playing on OTOP official website (part 9 – user scroll down the page from part 8)

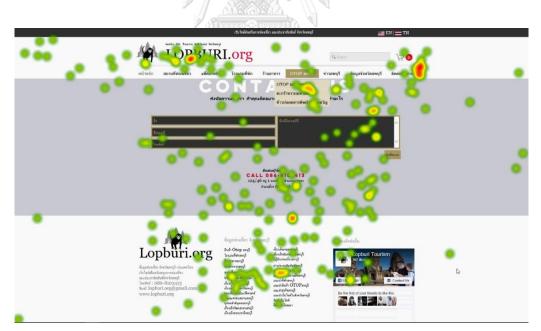


Figure 64. Third sampling journey from one of all participants who playing on OTOP official website (part 10 – user scroll down the page from part 9)



Figure 65. Third sampling journey from one of all participants who playing on OTOP official website (part 11 – user scroll up the page from part 10)



Figure 66. Third sampling journey from one of all participants who playing on OTOP official website (part 12 – user chose the product and click on product picture to see more information)



Figure 67. Third sampling journey from one of all participants who playing on OTOP official website (part 13 – user scroll down the page from part 12)

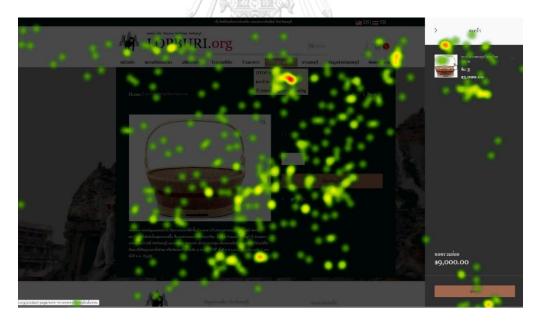


Figure 68. Third sampling journey from one of all participants who playing on OTOP official website (part 14 – user checked on the shopping cart after they put the product into the cart)



Figure 69. Third sampling journey from one of all participants who playing on OTOP official website (part 15 – user did the task)





Appendix D: A sample of Heatmap on social media of Lopburi official website

Figure 70. Heatmap on social media from first participant's eye movement tracking





Figure 71. Heatmap on social media from second participant's eye movement



Figure 72. Heatmap on social media from third participant's eye movement tracking

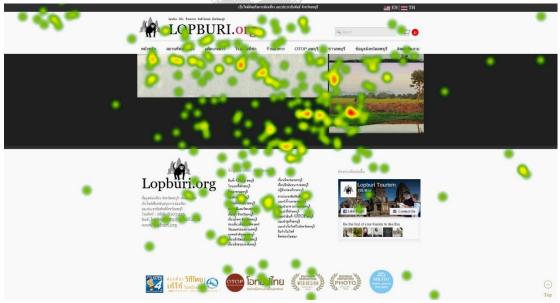


Figure 73. Heatmap on social media from fourth participant's eye movement



Figure 74. Heatmap on social media from fifth participant's eye movement tracking

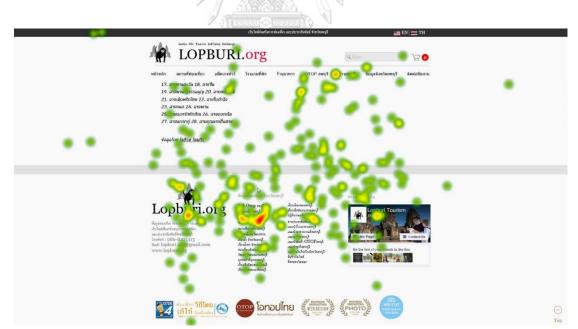


Figure 75. Heatmap on social media from sixth participant's eye movement tracking

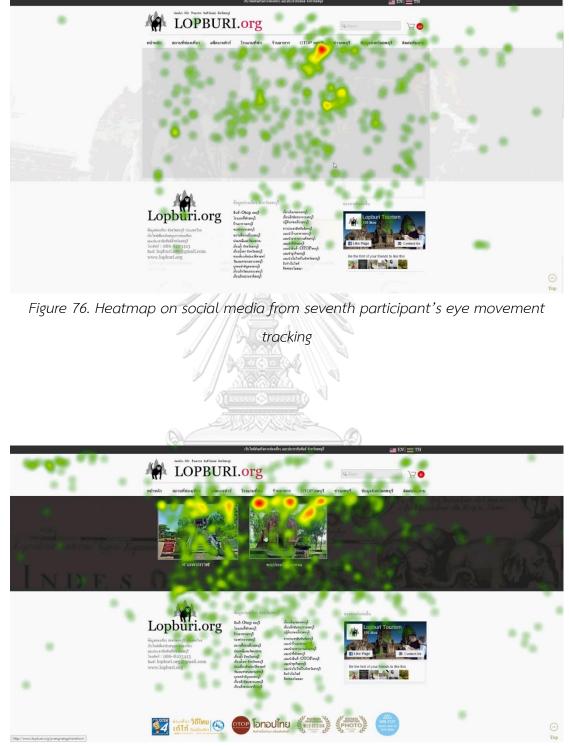


Figure 77. Heatmap on social media from eighth participant's eye movement tracking

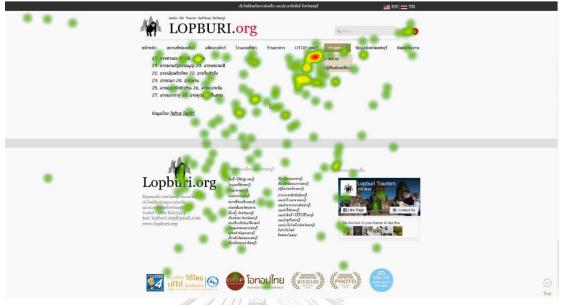


Figure 78. Heatmap on social media from ninth participant's eye movement tracking



Figure 79. Heatmap on social media from tenth participant's eye movement



Figure 80. Heatmap on social media from eleventh participant's eye movement





Figure 81. Heatmap on social media from twelfth participant's eye movement



Figure 82. Heatmap on social media from thirteenth participant's eye movement





Figure 83. Heatmap on social media from fourteenth participant's eye movement



Figure 84. Heatmap on social media from fifteenth participant's eye movement



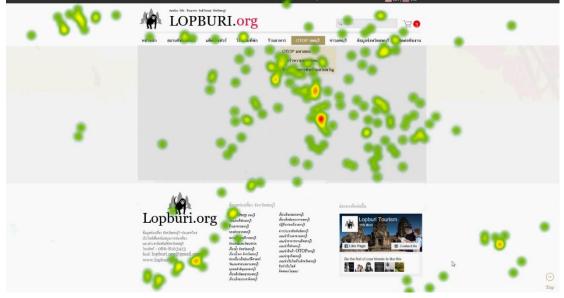


Figure 85. Heatmap on social media from sixteenth participant's eye movement



Figure 86. Heatmap on social media from seventeenth participant's eye movement





Figure 87. Heatmap on social media from eighteenth participant's eye movement

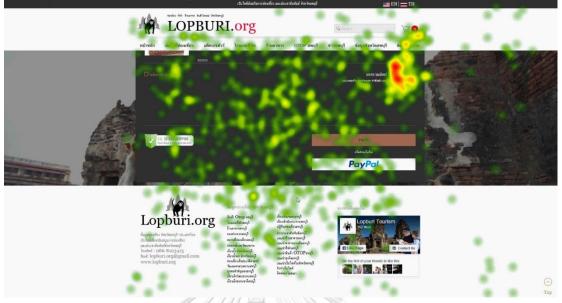


Figure 88. Heatmap on social media from nineteenth participant's eye movement



Figure 89. Heatmap on social media from twentieth participant's eye movement



Figure 90. Heatmap on social media from twenty-first participant's eye movement



Figure 91. Heatmap on social media from twenty-second participant's eye

movement tracking

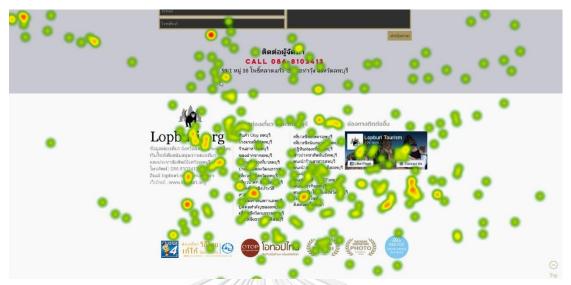


Figure 92. Heatmap on social media from twenty-third participant's eye movement

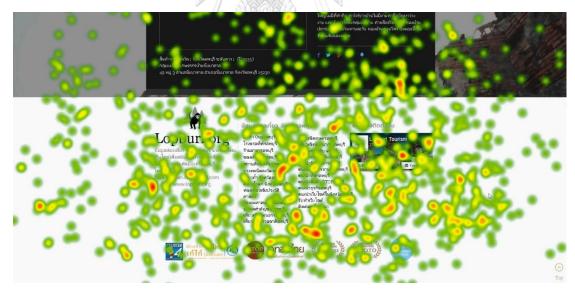


Figure 93. Heatmap on social media from twenty-fourth participant's eye movement

Appendix E: A sample of an existing and popular e-Commerce website in Thailand

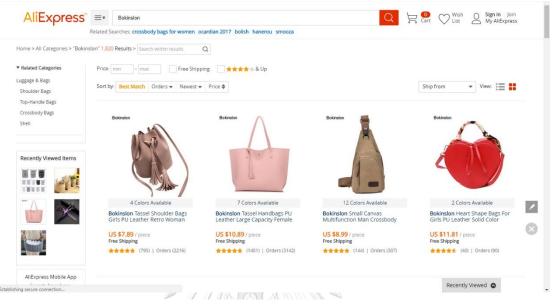


Figure 94. An overall product display for ordering from AliExpress.com website with

shows some basic information and rating. (Bags category sample)

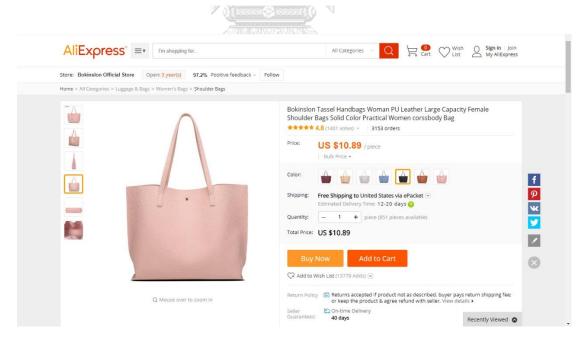


Figure 95. An AliExpress.com website show product information, photos, prices, product option, shipping details, and ordering details after choosing the product

	Q Mouse over to zo	omin		Guarantees: 40 Payment: VIS	A time Delivery days	27		re • Learn More •
Sold By Bokinslon Official Store	Product Details	Feedback (1401)	Ship	oping & Payment	Seller Guarantees			Report item
97.2% Positive feedback Detailed seller ratings~ Open: 3 year(s)	5 Stars 4 Stars 3 Stars 2 Stars		85% 11% 2% 0%	Average Star R	ating: 4.8 out of 5 (1,3	91 vote	es) 🚺	
Visit Store Follow Contact Seller	1 Star • All Feedback All		296 Pictures (	153) 📄 With Persona	Information(0) 🗌 Additional		(81) Sort by default ~	• • 1/141
Contact Now This Seller's Categories	Y***e	***** Color: Orange Logistics	; China Po	ost Registered Air Mail	<ul> <li>Franslate to</li> </ul>	English	Sort by default *	(0)
+ Hot Bag Men Backpack - Canvas Backpack - Oxford Backpack - Leather Backpack					ienos, huele raro pero estal cu e algunos vendedores no se pu		descripcion, el rasti	reo indicaba

Figure 96. Feedback section from customer's using experiences on the product

(AliExpress.com website)

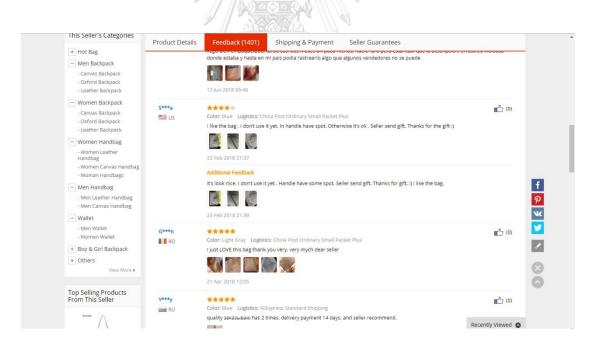


Figure 97. Customer reviews or comments showing in the feedback section of

AliExpress.com website

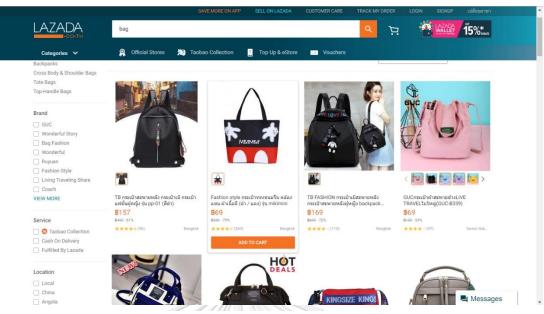


Figure 98. An overall product display for ordering from Lazada.com website with shows some basic information and rating. (Bags category sample)

Miletty first     B330.00     -79%     Fashion style.       Promotion and price above are valid through 14/06/2018     If Cash on Delivery Available       Option     If Cash on Delivery Available       If Cash on Delivery Available     If Cash on Delivery Available       If Cash on Delivery Available     If Cash on Delivery Available       If Diameters     If Cash on Delivery Available       If Diameters     If Cash on Delivery Available       If Diameters     If Cash on Delivery Available	Stores       ک Tacbao Collection       Top Up & eStore       Vouchers         dy & Shoulder Bags > Fashion style กระบบาทรงขนมเร็บ คล้องแขน ผ่านนื้อดี (dt / แลง) fu mikimini           Fashion style กระบบาทรงขนมเร็บ คล้องแขน ผ่านนื้อดี (dt / แลง) fu mikimini       Delivery Options       ©         ####################################
Fashion style ns:Lilnysouuusiu viiliua   find (n / u.s.) ju mikimini   Construction   Construction </th <th>Fashion style กระเป๋าหรงขนมเว็บ คล้องแขน ผ้าเนื้อดี (ก่า / แคง) รุ่น mikimini       Delivery Options       Image: Characterization of the stress of</th>	Fashion style กระเป๋าหรงขนมเว็บ คล้องแขน ผ้าเนื้อดี (ก่า / แคง) รุ่น mikimini       Delivery Options       Image: Characterization of the stress of
(n1 / un3) \$u mikimini       ● the start P dathent Wan in my environmentative P dangkok,         (n1 / un3) \$u mikimini       ● the start P dathent Wan in my environmentative P dangkok,         Badd: Fashion Style   More Women Bags from Fashion Style       ● the start P dathent Wan in my environmentative P dangkok,         Badd: Fashion Style   More Women Bags from Fashion Style       ● the start P dathent P dathent Style         Badd: Fashion Style   More Women Bags from Fashion Style       ● the start P dathent P dathent Style         Badd: Fashion Style   More Women Bags from Fashion Style       ● the start P dathent Style         Badd: Fashion Style       ● the start P dathent Style         Option       ● the start P dathent Style         Option       ● the start P dathent Style         ADD TO CART       How to buy?	(c) 1 / (u-o) \$ 1 / (u-
Standard Delivery     Standard     Standard Delivery     Stan	B69.00     B39.00       B330.00 -79%     Free for min order of THB 99.00 from Feature style.       Promotion and price above are valid through 14/06/2018     THB 99.00 from Feature style.       Option     The turn & Warranty
B330.00 - 79%     Promotion and price above are valid through 14/06/2018     Fabrice style.       Option     Image: Constraint of the style of the	Promotion and price above are valid through 14/06/2018  Promotion and price above are valid through 14/06/2018  Coption  Return & Warranty  O
Image: Cash on Delivery Available       Option       Image: Cash on Delivery Available       Image: Cas	Option Return & Warranty O
Return & Warranty       Image: Constraint of the second secon	Return & Warranty O
ADD TO CART How to buy? Sold by	③ 7 days easy return
ADD TO CART How to buy? Sold by	
	V that an
Tushion style.	ADD TO CART How to buy? Sold by Fashion style.
Positive Seller Time on Lazada Sell Ratings	

Figure 99. A Lazada.com website show product information, photos, prices, product option, shipping details, ordering details, and also seller details after choosing the product

	Search in Lazada	<u>ج</u> ک	MALLET 15%*
Categories 🗸	🤱 Official Stores 🐞 Taobao Collection 👖 Top Up & eStore 📖 V	ouchers	
			DAVIDJONES ผู้หญิงรับบันกระเป๋า สะหายใหล่หนึ่งเที่ยนผ่าพันคล 19900.00
	款式一		Consume Franks
COLOR DISPIA	Y│ 实物对比	-	
· ·			9
<u>_</u>			
/			ดลูโบใน้ผลีผ่าใบไหม่กระเป่าแฟขัน กระเป๋าข้อปริ่งที่ง่ายกระเป๋าสตรี
			กระเข้าข้อปขึ่งที่ง่ายกระเข้าสครั 8237.66
	NEW MODE		
	VIEW MORE		
Ratings & Reviews of Fi	view More		-
Ratings & Reviews of Fi			
	ushion style กระเบ้าพรงขนมจีม ดล้องแขน ผ้าเนื้อดี (ดำ / แดง) รุ่น mikimini 3. ธาสก	RATE THIS PRODUCT	
Ratings & Reviews of Fi	shion style กระเป๋าทรงขนมจีบ คล้องแขน ผ่าเนื้อดี (ด่า / แดง) รุ่น mikimini s ธร.ศ. 155 4 ธร.ศ. 50	RATE THIS PRODUCT	
	schion style กระเป๋าทรงขนมจึม คล้องแขน ผ้าเนื้อดี (ดำ / แดง) รุ่น mikimini 3 ธารส 4 ธารส 50 3 ธารส 2 ธาส	RATE THIS PRODUCT	
	shion style กระเป๋าทรงขนมจีบ คล้องแขน ผ่าเนื้อดี (ด่า / แดง) รุ่น mikimini s ธร.ศ. 155 4 ธร.ศ. 50	RATE THIS PRODUCT	Sap Cardy netrol tansfired?

Figure 100. Ratings and Reviews section from customer usage experiences of the

product from Lazada.com website

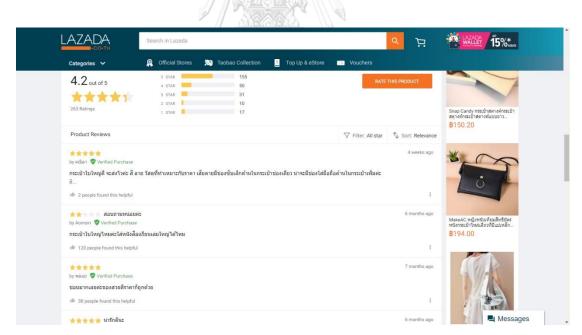


Figure 101. A sample of product reviews from each customer of Lazada.com website

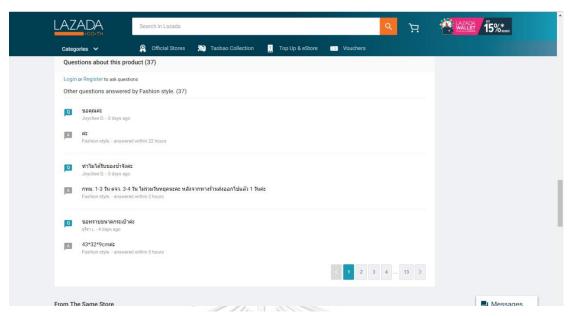


Figure 102. Questions about the product section of Lazada.com which let users ask about what they have suspect on the product

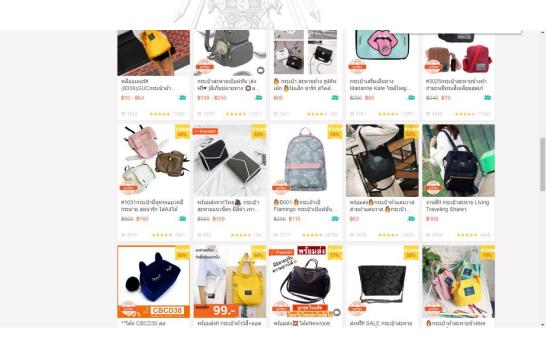


Figure 103. An overall product display for ordering from Shopee.com website with shows some basic information and rating. (Bags category sample)

	พร้อมส่ง () กระเป TRAVELใบใหญ 865-8360 () 663 ★★★★Ω 44 เดีย () กรรลส่ง ถึง เชต สาร์ตสร 80 - 860	j(M-002) 15 (การให้คะแนนเท็ง เด่าถึง 8250 เพระนคร, จังหวัดกรุงเ	มด 1925)   ยะ			ดั หนา3×3ก	กระเป๋าLIVE
	ตัวเลือกสินค้า: เหลื เบียว		เทา ทองอ่อน	เขียวเข้ม	ต่า แ	ลง ฟ้า	ายาว
💓 🚺 🛍 🔌 🕷	สำนวน: –		ทั่งหมด 896 ขึ้า พื่มไปยังรถเซ็น		าสินคำ		
	🞯 การันตีจาก Sho	opee	รั่น หากไม่ได้รับ	สินค้า			
comfashionstore Active 39 นาทิ ที่ตามมา ดูรัวนด้า ติดตาม	ี่ <mark>มี 180</mark> สินค้า	ช 4.3 คะแบบ		🖼 36% เรทการดอบกลับ		<mark>ในไม่ก็วัน</mark> ารตอบกลับ	A 12 เดือน ที่ผ่านมา เข้าร่วมเมื่อ

Figure 104. Shopee.com website show product information, photos, prices, a product option, and ordering details after choosing the product

♡ ถูกโจ: 1578 🛛 แฟร์ไปปัง 🔿 🚹 🚱 🖗	오 💿 แลหแลย 뉯 เห็มไปอีรรณส์น ชื่อสินคำ
	🛜 การันดีจาก Shopee - ริมประกันดินเงิน หากโมโดรับสันดำ
comfashionstore Active 39 นาปี ที่ผ่านมา ดูร้านค้า ติดตาม	© 180 ☆ 4.3 등 36% © กายในใม่ดีวัน 용 12 เดือน ที่ผ่านมา สินด้า ตะแนน เราเการตอบกลับ เวลาในการตอบกลับ เป๋าร่วมเมื่อ
รายละเอียดสินค้า <mark>คะแนน (1925</mark> )	ความเห็น (3)
★★★★☆ 4.4 เดิม 5	ความติดเห็น (741) รูป (82) 5 ดาว (1249) 4 ดาว (385) 3 ดาว (141) 2 ดาว (42) 1 ดาว (108)
fearn2530     ★★★★★     ★	
	ดีมากแต่สีเขียวขี้ม้าน่าจะเข้มกว่านี้อีกสีอ่อนไปหน่อย แต่ก็ดี การให้บริการจากร้านด้าดีมาก
คุณภาพของสินคำดีมาก ความคุ้มค่าร่	

Figure 105. Product reviews/comments and rating score from each customer of Shopee.com website

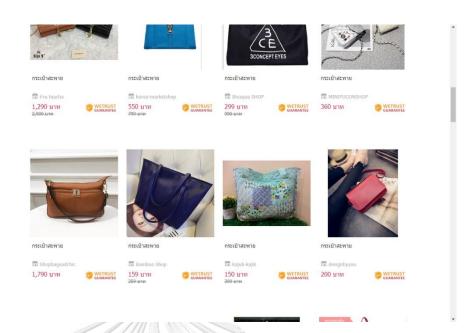


Figure 106. An overall product display for ordering from Weloveshopping.com website with shows some basic information. (Bags category sample)

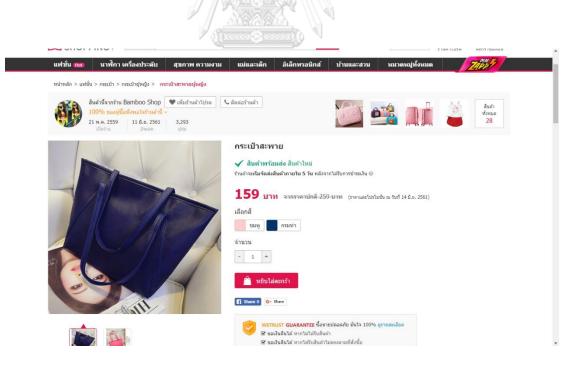


Figure 107. Weloveshopping.com website show product information, photos, prices, a product option, product status, shipping details, and ordering details after choosing the product

	9	WETRUST GUARANTEE นี้อยายปลอดกัย มันใจ 100% ดูรายอะเอียด ชี ขอเป็นดันได้ หากไม่ได้รับอันดำ ชี ขอเป็นดันได้ หากไฟรีบอันดำไปตรงตามที่สั่งชื่อ
	การจัดส่ง การประ	<ul> <li>บริษัท ไปรษณีบิโทย จำกัด - ลงหะเบียน (3-7 วันทาการ)</li> <li>บริษัท ไปรษณีบิโทย จำกัด - EMS (3-5 วันทาการ)</li> <li>Kerry Express (1-3 วันทาการ)</li> </ul>
ขละเอียดสินคำ การชำระเงิน 100% พลงได้ตลังพลไวร้าน6ำนี้ (อาดมัต	การจัดส่งสินค้า ความพึงพอ	19
ยละเอียดสินคำ การข่าระเงิน 00% ของผู้ชื้อพึงพอไจร้านดำนี้ (รากผู้รั วามทั้งพอไจต่อร้านดำไนดำนต่างๆ		19
00% ของผู้ซื้อพึงพอใจร้านค้านี้ (จากผู้ข		19
00% ของผู้ชื้อพึงพอใจร้านคำนี้ (จากผู้ช วามพึงพอใจต่อร้านค้าในด้านต่างๆ	ื้อ 32 คน ใน 6 เดือนล่าสุด) <del>ดูรายละเอีย</del> ด	ใจ
00% ของผู้ชื่อพึงพอใจรั่านดำนี้ (จากผู้ข้ วามทั้งพอใจต่อร้านดำไหด้าหต่างๆ สินคำตรงตามที่สั่งชื่อ	ร้อ 32 คน ใน 6 เพื่อนล่าสุด) ดูรายสะเอียด	ใจ เพิ่มเต็ม 4.4/5.0

Figure 108. Rating score of customer satisfaction in each aspect of the product on

การให้บริการของร้านค้า	****	4.3/5.0
ความรวดเร็วในการจัดส่ง	***	4.4/5.0
คุณภาพหีบห่อและการจัดส่ง	*****	4.4/5.0

Weloveshopping.com website

สรุปความพึงพอใจของผู้ซื้อทั้งหมด

ผู้ชื่อ	ความพึงพอใจ	ดวามคิดเห็น	วันที
ไม่เปิดเมทชื่อ	(a) wala	สินด้าถกจัยมากค่ะ	30-05-2018
SHILLING LLD	() instr		18:46 u.
รนวัฒน์	mala	ดีมากเลขครัช	28-03-2018
B II MARIA	Half	N3 ILIGINS0	13:43 u.
กัญญาณัฏร์	(a) พอใจ	ໃດ້รັບຫລວຽວລະຈົ້ວນາກລະ	07-03-2018
110101-101133	() Mata	100202020200000000000000000000000000000	15:24 u.
		คุณภาพสินค้าไม่เป็นอย่างที่คิด ในรูปสวยมาก ของจริง	
ไม่เปิดเผยชื่อ	💽 ปานกลาง	เป็นแค่กระเป้าพลาสดึกอ่อนๆ อายุการใช้งานน่าจะ	06-03-2018
	Gunnard	ประมาณ 6-12 เดือน ใบเล็กกว่าที่หวังไว้ สินค้าเปื้อนเล็ก น้อยรับได้	11:29 u.
คุณกาญจนา	(a) wala	พอใจมาก	22-02-2018
Atmu under u	( Hatt	PRE 1421 IT	09:00 u.
ไม่เปิดเผชชื่อ	(a) wala	สินคำได้ตามแบบที่สั่งโอเครมากคะ	12-12-2017
CHUDHGHUDD	() Hatt	a switche is called in the Growshime	21:18 u.
วียะคา	(a) พอใจ	สีนดำส่งรวดเร็วดีคะ	07-12-2017
2112041	O nata	8 JUN 1842 3 M F2 3 M M2	17:33 u.
	(a) wala	ผ้าเนื้อดี	05-12-2017
สมพังรุ่ม	O mate	NILLEM	12:19 u.

Figure 109. Summarize detail of all customer satisfaction of product on

Weloveshopping.com website

Appendix F: Proposed rough ideas about some features that would be a challenge to the further work for better design on official OTOP website in Thailand

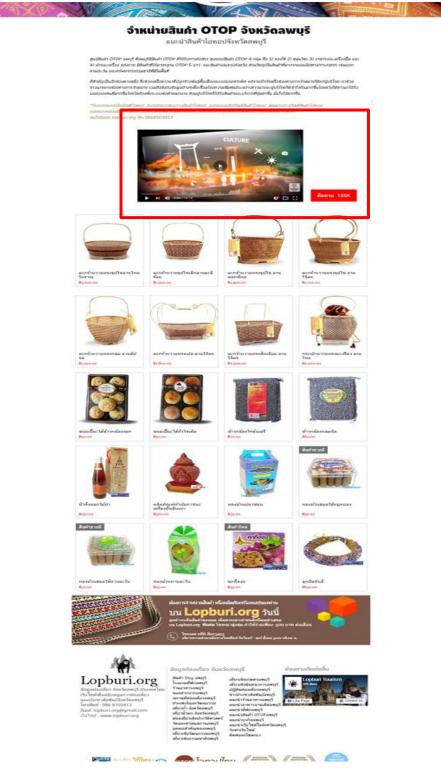


Figure 110. A Rough idea of putting videos or images movement to show the production processes on sample website (Lopburi.org)

แนะนำสินค้าโอทอปจังหวัดลพบุวี

สุนสัมษา OTOP และรู้ คือสุนรีสัมษา OTOP คำสิรับการด้วยระดูของอันป่า OTOP 4 กลุ่ม คือ 12 ของไร 23 ของโต 33 ขาการและครื่องขึ้น ขอ Al ปายและที่ว่า หมือการ สินัปที่มีสารฎาย OTOP 5 การ และกันส่างอัดการข้อรู้ว่า ส่วนใหญ่ไปแปะสำนักการแออดอิตการกระ การและวิจะ และกันการกรรณราชที่สัมษ์เส

สัสพัญนั้นวิทยังสางเริ่ม ใสร้างหลังสาวมาที่ปุดทำงหันผู้สิ้มมั่งของเป็นของที่เสีย สาราสปาร์เหมืองโอกาสารวิทยังหั สาวมากรรรโอสารการที่แต่เหาะ เป็นให้ส่วงวันสูงสารคู่ได้เป็นสังหวามแต่เล่นไปสารการและ ผู้เก็บไหล่สารใหม่แหน้นโอหวั สารการและผู้สารที่ โดยไฟสาวสังหามายสารการที่สารการที่ได้ได้ได้เรื่องการที่สารกล้าง เรื่องไปสารกล้าง

theorem defined and the rest to a second the definition of the second state of the second second second second

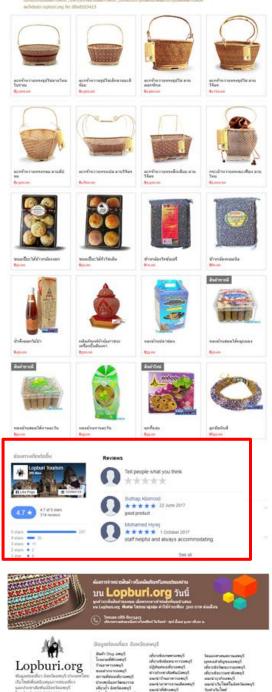


Figure 111. A Rough idea of moving a location of a social element from the bottom left and also having a recommended review that is a realtime review of sample website (Lopburi.org)

## VITA

Name: Krittika Akasarakul (Min)

Telephone: (+66) 63 374 5553, (+66) 87 356 5091

Email: Krittika.Ak@student.chula.ac.th, Krittika.a@hotmail.com

Affiliation: Machine Intelligence and Multimedia Information Technology (MIMIT) Laboratory, Department of Mathematics and Computer Science, Faculty of Science, Chulalongkorn University.

Country: Thailand

Biography: Miss Krittika Akasarakul was born on January 15, 1993, in Bangkok province, Thailand. She received a Bachelor's degree in Food Technology from Chulalongkorn University. Now she is a Master's degree student in Computer Science and Information Technology, Department of Mathematics and Computer Science, Faculty of Science, Chulalongkorn University.