

FACTORS INFLUENCING INFORMATION SEEKING BEHAVIORS FOR HALAL FOOD AMONG MALAYSIAN MUSLIMS CONSUMERS IN MALAYSIA

Firas Saleh Mustafa Omari

Thesis submitted in partial fulfillment for the tegree of DOCTOR OF PHILOSOPHY IN SCIENCE AND THE WOLLOW

UNIVERSITI SAINS ISLAM MALAYSIA

April 2021

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I hereby declare that the work in this thesis is my own except for quotations and summaries which have been duly acknowledged.

Date: 29 April 2021

Signature

Name: Firas Saleh Mustafa Omari

Matric No: 4140102

Address

Jordan University of Science and

Minology Facility of Science and Arts

rbid- Jordan



UNIVERSITI SAINS ISLAM MALAYSIA جَامِعَة العُلومِ الإِسْلامِيّة المَالِيزِيّة



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ABSTRAK

Dalam ekonomi global yang terbaru ini, kelakuan mencari makum makanan halal menjadi isu utama bagi umat Islam di Malaysia. Walau bagaimanapun, penyelidikan dan kajian secara konsisten menunjukkan keraguan dan ketidakpastian di kalangan pengguna Islam dalam mencari produk makanan halal Lebabkan oleh kemunculan pelbagai isu-isu di pasaran Malaysia. Oleh itu, kajian ini elah dijalankan untuk menangani faktor-faktor yang mempengaruhi tingkah laku menangani maklumat untuk mencari produk makanan halal di pasaran Malaysia dan versan itu memperoleh persepsi tentang makanan halal melalui kerangka konseptua dicadangkan. Walaupun pelbagai model telah dicadangkan sebelum. ai tingkah laku mencari maklumat, model-model ini tidak menghubungkan sifa sikap, kebiasaan, dan kesedaran individu yang nempunyai Komponen proses pengesahan telah ditambah ken diadaptasi untuk mencapai objektif utama kajan kemampuan proses pencarian informasi produk Muslim Malaysia. Kajian ini bertujuan untuk mencari maklumat makanan halal dengan mer disebut dengan proses pengesahan untukan pencarian yang yang boleh dipercayai dan sahih, dan berkesan untuk maklumat makanan hal anggap sebagai sumbangan penting dalam penyelidikan bidang ari maklumat untuk produk makanan halal. Soal selenk terdahulu untuk mencapai matlar utama Kajian in 482 soal selidik telah diedarkan menggunakan persampelan rawak ampelan geografi kepada individu Muslim Malaysia di kawasan umpur. Sebanyak 407 soal selidik yang sah telah dikem wakan dan digunakar analisis menggunakan SPSS dan AMOS untuk menguji hir alisis data mendedahkan bahawa pekali regresi (R2) sebanyak bahawa 79.9% variasi dalam elaskan oleh tujuh pembolehubah pembolehubah kebetgantungai bebas iaitu sikan. sumber maklumat, proses pengesahan, emuan kajian ini mencadangkan bahawa delah disebutkan dan proses pengesahan karan halal secara menyeluruh. Sehubungan itu, kajian kepada pengguna Muslim Malaysia dalam . Oleh kerana penyelidikan ini terhad kepada sia, pen elidikan dan kajian masa depan yang berkaitan di Malaysia dan juga di negara lain boleh angkan. Sehubungan itu, makanan halal harus disediakan secara bersih, dan dihasilkan agar selamat untuk dimakan secara umum.

ABSTRACT

In the new global economy, the information-seeking behavior products has become a central issue for Muslims in Malaysia. However studies have consistently shown the doubt and uncertainty among Muslim consumers in searching for halal food products because of the emergence of m any issues in the Malaysian market. Therefore, this study has been conducted as ss the factors influencing information-seeking behavior for searching halal fool products in the Malaysian market and hence attaining the perception of whole meness of halal food through a proposed conceptual framework. Although previously proposed on information-seeking behavior, none of on linking human attributes, namely: attitude, habit, and wareness process verification. The component of process ver ification ha adopted conceptual framework to achieve the main ob is enhancing the abilities of a searching process for among Malaysian Muslim consumers. This student searching a piece of halal food information by la with process verification to ensure using credible therefore attaining an effective searching or study is considered an important contribu of information seeking behavior for halal food products. based on previous studies to adhieve this study. 482 questionnaires have been distribute and geographical sampling to Malaysian Muslim Kuala Lumpur. A total uals in diffe of 407 valid questionnaires have analysis using SPSS and AMOS to test the research hypothe ealed that the regression coefficient (R2) of 0.799 indivices ons in the dependent variable of wholesomeness of halal ven independent variables, i.e., attitude, habit, awareness of information, process verification, awareness of information, indings of this study suggest that linking between attributes and process verification halal food. Accordingly, this study ensures the pe provides a po lim consumers in seeking information for to Malaysian Muslim consumers, future im consumers in Malaysia and even in other gly, halal food should be hygienically prepared, withily safe for human consumption in general.

Keywords: Information seeking behavior, halal food, human attributes, information sources, factors, Malaysian Muslim consumers.

AL-MULAKHKHAS

الملخص

في الاقتصاد الطلمي الجديد لقد غدا سلوك البحث عن المعلومات الخاصة بالمنتجات الغذائية الحلال من القضايا الأساسية للمسلمين في ماليزيا ومع ذلك فقد أظهرت الأبحاث والدراسات باستمرار حالة الشك وعدم اليقين بين المستهلكين المسلمين خلال البحث عن المنتجات الغذائية الحلال بسبب ظهور العديد من القضايا في السوق الماليزية لذلك تم لجراء هذه الدراسة لمعالجة العوامل التي تؤثر على سلوك البحث عن المعلومات في البحث عن المنتجات الغذائية الحلال في السوق الماليزية وبالتالي الوصول الى التصور الخاص بطبيعة وكمية الغذاء الحلال من خلال إطار مفاهيمي مقري.

ذج مختلفة بشأن سلوك البحث عن المعلومات إلا أن أيا من هذه الأتجاهات والعادة والوعى لدى الأفراد بالتحقق من العملية قق من العملية إلى الإطار المفاهيمي المعتمد لتحقيق الهدف الرئيسي عن معلومات منتجات الأغذية الحلال بين المستهلكين المسلمين وء على عملية البحث عن معلومات الطعام الحلال من خلال ربط مراد تحقيقها لضمان استخدام مصادر معلومات موثوقة ومعتمدة غذية الحلال وبالتالى تعتبر هذه الدراسة مساهمة وأضافة البحث عن المنتجات الغذائية الحلال لقد تم تطوير استبيان هذه الدراسة وتم توزيع 482 استبيان ا باستخدام عينات زيين في مناطق مختلفة من كو الالمبور ثم تم إسترجاع قدام برنامج الحزمة الإحصائية للعلوم الاجتماعية AMOS و برنامج تحليل النماذج اللحظية ابع لكامل الغذاء الحلال تفسر R2 الانحدار هو 0.799 مما يشير إلى أز الأفراد مصادر المعلومات التحقق من بو اسطة المتغير ات السبعة العملية والوعى بالمعلو

تشير نتائج هذه الدراسة إلى أن الربع بين السعات البشرية التي سعن ذكرها والتحقق من العملية يضمن إدراك كامل عن الغذاء الحلال وعليه تقدم عن الدراسة طبيل محتمل المستهاكين المسلمين الماليزيين في البحث عن معلومات عن الطعام الحلال نظر الأن ها البحث كان مقصورا على المستهدين المسلمين الماليزيين فمن الممكن أجراء البحوث والدراسات المستقبلية المتعلقة بالمستهدين غير المسلمين في ماليزيا وحتى في بلدان أخرى بناءا على ذلك وعموما يجب إعداد الطعام الحلال ومعالمته وانتاجه بشكل المحي ليكون آمن وصحي للاستهلاك البشري.

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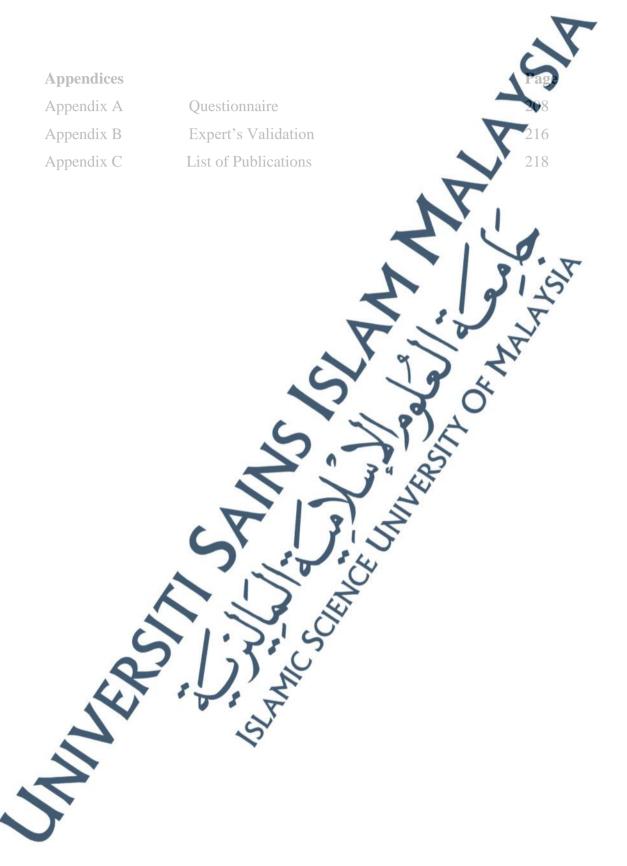
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LIST OF ABBREVIATIONS

AGFI Adjusted Goodness of Fit Index

AMOS Analysis of Moment Structures

ANOVA Analysis of Variance

BI Bibliography Instruction

CFA Confirmatory Factor Analysis

CFI Comparative Fit Index

CMIN Minimum value of the discrepancy between the model and the data

CMIN/DF The chi-square divided by its degree of freedom

EFA Exploratory Factor Analysis

GFI Goodness of Fit Index

HPAM Halal Product Acceptance Model

IB Information Behavior

ICT Information and Communication Technology

IFI Incremental fit Index
IL Information Library

ISB Information Seeking Behavior

IT Infortation Technology

JAKIM Jabatan Kemajuan Islam Maraysia (Department of Islamic

Development Malaysia)

MRA Multiple Regression Analysis

NFI Normed Fit Index

OPAC Online Public Access Catalog

PCFI Parsimonious Comparative Fit Index

PSI Psychological Instrument

REI Relative Elt Index

RMR Root Mean Square Residual

RMSEA Root Mean Squared Error of Approximation

SEM Sequential Equation Modelling

SME Small Medium Enterprise

Social Media for Learning SML Statistical Package for Social Sciences SPSS TLI Tucker Lewis Index Triandis Model TMTheory of Planned Behavior TPB Total Quality Management TQM TRA Theory of Reasoned Action

CHAPTER 1 INTRODUCTION

1.1 Background of the Study

The significance of information about seeking behavior of halal food product originates from the Muslim population in the world, which s a quarter of the world's population (Bohari et al., 2013). The significant num a strong impact on the international market, and encouraged global interest among food produce high demand for halal food among global Essentially, halal food products are the major parts of sia, which mostly consists of the Muslim population t the selection of halal food products is based on sev g, quality, price, country of origin, ingredient list, hal uslims, halal food is the most preferred selection amo owati, 2015).

Halal food demand originates from the Muslims' belief based on the regulations of Islam to consume only halal food, which also prompted the researchers of information behaviours to reinforce the refforts to conquer the obstacles in the practice of halal food. In Malaysia Notably there has been an increase in the responses towards halal among Muslim consumers as it enhances Islamic beliefs and practices (Fard & Amin 2018). Due to the importance of wholesomeness, which indicates the permissible sequirements of halal food for Muslims, the implementation of total quality management (TQM) is pivotal to market halal products (Karim, et al., 2020). Besides, provided that the approaches made in halal certification are not the only aspects focuses

by the manufacturer, wholesomeness and quality assurance could enhance the demand for halal products, making these aspects essential in halal food (Omari, Azman & 3019a).

Information Behaviour (IB) is an area of social informatics, the methods of processes sought, understood, and perceived by individuals seek upon seeking information in various life aspects (Omari, Azman & 2019a). In this Ismay case, Information Seeking Behavior (ISB) is defined as "a nocess of seeking the information as a consequence of a need to satisfy some Palcullo, 2018). Extensive research has been performed the fie professional model of information seeking for ngineers (Wijetunge, 2019). Therefore, a several management of the several mana halal food products (Suhartanto et al., 2019). Ho the association between two types of models, including human information behaviour models. It was presum elationship between the features of human information (e ss, and practice) and those of information seeking tion, process verification, and consciousness of earching, which contributes to the wholesomeness alaysian Muslim consumers. This study human features and efficacious searching aims to det alal food products.

A novel conceptual fractivork was formulated to investigate the factors of information-seeking behaviour for halal food products among Malaysian Muslim consumers. Furthermore, the methods applied by Malaysian Muslim consumers in havigating and searching for information was investigated, including the factors of information-seeking behaviour for halal food products. As a result, it was found that the

wholesomeness of halal food was a crucial aspect, which encouraged effective searching for halal food among consumers using linking perception, proceed, consciousness, process verification to ensure that reliable origin of the information is used. Subsequently, an efficacious searching process for halal food information could be achieved, leading to the solution to halal food problems in Malaysia.

1.2 Problem Statement

Recent reports were made on some factors behaviour for halal food products, including the ormatio individual's consciousness, practice, Islamic law and Adzharuddin (2017) identified the ambiguity lal products due to the challenges occurring among Bangi, Selangor, Malaysia. It was indicated that awareness gh correlation with information-seeking behaviour as iedah Abdul Khalek et al. (2015) determined the ele alaysian youth Muslims' behavioural attempt of consu ate Higher Learning Institutions of Malaysia, particula 16 to 35 years old. Additionally, it rly the food in Klang Valley, Malaysia was was found that Perceptions of young Muslims and their frequently food. Meanwhile, a model was proposed by uce the influence of religious commitment on the Asgari (2013) to on between the halal brand and buying attempt. It was highlighted in this study model was used to identify the impacts of the halal brand relationship as the termediate between religiosity and buying attempt. The impact of confidence, loyalty, and dedication to brands indicated that the strong association of the brand with consumers is considered as a significant area of research.

Previous studies consistently illustrated the doubt and uncertainty among Corresponded with the finding by Abdul Majid et al. (2015), Muslim consumers search for a halal food which is identified with the issue of halal logo abuse by the producer. Meanwhile, the verification of the halal status in food or other groceries was challenging, particularly when the food was pre-packaged to processed (Saba, 2017). As an example, identifying whether the correct method knused to slaughter a chicken was challenging when the chicken has been cut into several parts. Accordingly, the research problem highlighted in this study highlighted the doubt and uncertainty felt by the Muslim consumers upon their attempt to buying a food product.

Another issue related to hala was the ce of the food manufacturers to the Malaysian Hala tandards a ity of presenting any were eligib documents to prove that their produc al status. This issue was added with the application of the products made in Malaysia (The Sun Daily, 2014). acts on consumers, specifically Malaysian Muslims fers to procedures of verifying the compliance of f fashim et al., 2017), and this issue was oducts and ingredients. As a result, advanced dustry, imposture and poor production have idespread as they bring mancial advantages (Zhanget al., 2017). Notably, the highlighted in study by Riaz and Chaudry (2018) was whether combination or ing took place between the halal product and other similar materials, including ork derivatives at places where they were low-priced and widely available.

Moreover, Halal food information issue is starting to get the place and attention in the market, and it is very influencing in marketplace, particularly in most Manic countries (Katuk et al., 2020). Among halal issues that arisen are lack of proper information about hygienic practice at processing premises and the expiration of halal certification (Faizal et al., 2013). At the same time, halal logistics capabilities are critical in ensuring that the halal integrity of the supply chain works from farm to serving table. Halal food information issues have been discussed and highly obtained attention by the Prime Minister of Malaysia. (Baharuddin et al., 2015).

Besides the safe consumption food for Muslims being a inadequate cooperation among the world's halale anced this doubt on the originality of the halal certification dditionally, JAKIM is faced with the issue related to cration, which is e of hala possibly due to the absence of comple researc it unit to investigate, on (Karim analyze, and perform an on-site in However, the research is now performed by a third part ation of the halal status at a specified time. Malays obal halal market. It was the first Late its halal matters and certification. country that assigns Other issues are the slaughtering of poultry and meat the rites of Islam and food ingredients produces haruddin et al., 2015). It is also difficult to verify someness and halalness if meet in some groceries especially when they come aged or processed (Baharuddin et al., 2015).

This study will try to investigate Malaysian perceptions toward efficacious searching for halal food among consumers in Malaysia. The current study stresses on

the significance of information which can improve consumers' attitude toward halal food consumption.

Many theorists emphasized that the combination of the halal concepts is essential to achieve the wholesomeness of food products, which s beyond the 'pork and alcohol-free' or 'developed by Muslims' status (Liow, (12). Similarly, a strong association is present between traceability and the hala concept, which encourages transparency and guarantees the accessibility mation in the supply chain. To illustrate, several enforcements programs were authorities after the implementation of the Trade Description Act 2 eit halal food manufacturers and premises were repo certificates on the product packaging or al., 2012). Therefore, it is indicated from the issues of seeking halal food information is crucial to captue wholesomeness and to effectively seek halal food info searching is achieved through the association of individual's perception, practice, and conscious

In summary, this study mainly sums to determine the impacts of the association of human features (e.g., perception practice, and consciousness of an individual) with process verification to effectively seek information on halal food. Therefore, the importance, of halal food wholesomeness was emphasized, which encouraged efficacious searching for halal food among consumers by associating the human features with process verification to solve halal food problems in Malaysia.

1.3 Research Questions

RQ1: What are the factors influencing the information-seeking behavior regarding halal food product among Malaysian Muslim consumers.

RQ2: Is there any relationships among human attributes and process verification in searching for information about halal food product?

Sub RQ2:

- 1) Does attitude have influence on process verification in searching for information about halal food product?
- 2) Does on practice have influence on prevess verification in searching for halal food product information?
- 3) Does awareness of individual influence process verification in searching for information about halat food product?

RQ3: Is there any relationship between existing hard, food model with the features of the existing information seeking behavior model to ensure that halal food product information could be sought effectively?

1.4 Research Objectives

RO1: To determine the factors inflancing the information searching behavior for halar fold product information among Malaysian Muslim consumers.

NO2: No determine the correlation between human attributes and process wrification in searching for halal food product information

Sub RO2:

1) To identify the correlation between attitude and process verification in searching for halal food product information.

- 2) To determine the correlation between Habit and process verification in searching for halal food product information.
- 3) To determine the correlation between Awareness of Individual and process verification in searching for halal food product information.

RO3: To develop a model to integrate the human perceptions of halal food to predict effective information-seeking behavior among Malaysan Muslims.

1.5 Significance of the Research

The primary focus of this research is to arrive at the perspective of helds food product wholesomeness among Malaysian Muslim consumers after the relation origin of the information is used to identify their perception, practice, and consciousness regarding halal food. This area of study is significant as a become as extension to the low number of studies clarifying this issue, particularly in the context of the Malaysian market, leading to the importance of proposing a conceptual formework to illustrate the information-seeking behavior among Malaysian Muslim consumers for halal food products.

The significance of information seeking behaviour of halal food product originates from the high Mushus population with world, which constitutes a quarter of the world population. Meanwhiles the importance of acquiring valid information regarding halar food was presented by Liow (2012) and Faizal et al. (2013), who found that the business organization expands after the acquirement of halal certification. Essentially, halal certification is implemented in the food industry to ensure a uniform system of Islamic practice, including safety and hygiene. It is also regarded as a method of expanding the business growth, especially in Malaysia, which majorly consists of the Muslim population.

1.6 Research Scope

This research has surveyed Malaysian Muslim consumers in the Malaysian market to determine the factors of information searching while acquiring hatal food product information. The benefits of halal food are diverse, including safety and hygiene, the increase in consumers and tourists, improved market signals, and business growth. Halal food products are also incorporated in the hospitality sector. Notably, the prominence of halal food in business gains a wider range of interest beyond religion and be involved in Malaysia's role as a tourism destination. To illustrate, Forman et al. (2011) stated that the expenditure for food and beverages amounted to MAP, A Pillion, which was accountable to tourist expenditure (as cited in tourists Malaysia, 2010). It was also illustrated by Abdul Raufu et al. (2012) that health was the most crucial element of consciousness among Muslims.

Provided that Muslims are n as Halal finance in banking and finance industry branding was found to influence Muslim consumei food", which corresponded Wilson and Liu (2010 nding was essential in gaining interests among N halal industry does not only impact Muslims, but isers as it indicates selection of lifestyle and qualit (Karim, et al., 2020). Moreover, halal food nption among most of the Muslims in Malaysia (Karim, produc). Besides fulfilling in shariah requirements in the Islamic view, halal food in the hygiene, sanitation, and safety aspects.

 Table 1.1: Summary of Analytical Framework

Research Questions	RQ1: What are the factors of the information-seeking behaviour regarding halal food product among Malaysian Muslim consumers?
	RQ2: What are the correlations between human attributes and process verification in searching for information about halal food product?
	Sub RQ2:
	1) What is the correlation between antitude and process verification in searching for information about halal food product?
	2) What is the association of practice and process verification in searching for halal food product information?
	3) What is the correlation between awareness of individual and process verification in searching for information about Kafal food product?
	RQ3: How can the human features of the existing inflat food model be linked with the features of the existing information seeking
	behavior model to ensure that halal food product information could be sought effectively?
Research Objectives	RO1: To determine the Netors influencing the information searching behavior for halal food product information among Malaysian Muslim consumers
	Malaysian Muslim consumers. RO2: To determine the correlation between human attributes and process verification in searching for halal food product information Sub RO2:
	 To identify the correlation between attitude and process verification in searching for total food product information. To determine the correlation between Habit and process verification is searching for halal food product information.
	To determine the correlation between Awareness of individual and process verification in searching for halal food product information.
0	RO3: To develop a model to integrate the human perceptions of halal feed to predict effective information-seeking behavior among Malaystan Muslims.
Source of Data	Survey, target population were Muslims who are living in Kuala Lumper, Sample size: 384
Technique of Analysis	Quantitative, Chactural Equation Modelling (SEM)
Phydings	In conclusion, it is expected a positive relationship between the attitude of consumers towards Halal food, habit of consuming Halal food, individual's awareness and process verification of Halal food information, information sources used for seeking Halal food, awareness of information towards Halal food and traceability of Halal food information, with perception of wholesomeness, which
	leads to effective searching for Halal food information.

1.7 Operational Definitions

This section explains the terminology used in this study.

1.7.1 Halal Food

Halal is an Arabic term which means lawful and permissible which is permitted by Allah SWT and there are no restrictions found from the sources of Syariah Halal food means food, which is not made of, or does not contain any part of the salimal which is forbidden in Islam (for example pork) and is free from any non-balal elements.

1.7.2 Attitude

Attitude towards the behavior is referred to as the respondents' favorable or unfavorable evaluation to perform certain behaviors. In this study, the attitude towards the behavior is the respondents' unfavorable or favorable evaluations in consuming halal food (Ajzen, 2001).

1.7.3 Habit

Habit is the pathway created by the neurons, after repetition of certain behaviors that would stay fixed and denable. Several studies, which incorporated TPB in food-related behaviour, implemented habit as an independent predictor of intentions (Dangi, Narala & Gupta, 2020).

1. Awareness of Individual

Awareness is knowledge created through the interaction of an agent and its environment (Gutwin and Greenberg, 2002). Therefore, individuals' awareness could

be measured by monitoring and perceiving the information of the environment they are in. Muslim's awareness has a strong influence to educate the manufacturer of halat lood products in the market. Notably, the understanding and awareness of the halat and haram concept are essential for Muslims as they could not solely adhere to the act and the authority.

1.7.5 Information Seeking Behavior

Information Seeking Behavior in this study is bases searching among the professionals, which originate om the information from various sources, including collea articles, their knowledge, and experiences (L eckie of information could be categorized. formal, informal, internal, external oral, and nore, formal sources including conferences, journals, s are within and outside of the organization, while oral or aper copy or electronic text. ge, experience, and practices. Personal sources cons Notably, the formal sources could easily be identified in the literatur

1.7.6 Traceability

The vaceability concept is important in the halal food industry as it enhances transparency, therefore reducing the effort for product recalls and the onus claims towards the manufacturers (Meuwissen et al., 2003). Furthermore, traceability is regarded as a transparent communication technique, which ascertains the accessibility of the information to the supply chain (Zailani et al., 2010).

1.7.7 Wholesomeness

The wholesomeness Halal food refers to shariah's requirements of the meat, hygiene, sanitation, and safety aspects, which make Halal food readily acceptable by consumers who are concerned about food safety and healthy lifestyle (Mansaa, 2020). According to Mannaa, M. (2020), the concepts of halal and goodness (Tayyib) were described by the wholesomeness of the food fulfilling the permissible requirements of the Islamic rule.

1.7.8 Process Verification

Process verification refers to the process of identifying and scrification of halal food (Othman, Shaarani & Bahron, 2016). Halal food identification in Muslims community is highly demanded, worthy, and important (Othman Shaarani & Bahron, 2016). Therefore, in this study, this is to enhance the searching process for halal food product information among Malaysian Muslim consumers.

1.8 Thesis Outline

This thesis is divided into six chapters. The first chapter briefly presents the research background, issue statement, estearch questions, research objectives, significance, and scope, including the thesis structure. The second chapter elaborates on the theories and reviews of literature related to the subject, followed by the third chapter, which presents the research beoretical framework, the suggested conceptual framework, and hypotheses. The fourth chapter presents the implemented methodology, which includes research approach and design, population and sampling techniques, research instrument, data collection and procedure, pilot study, and summary. Following that, the fifth chapter focuses on the research findings, discusses the

empirical findings, and analyses the data. This thesis is concluded by the sixth chapter, which presents the conclusion and recommendations for upcoming research wi same area.