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The effect of different types of online reviews on Instagram regarding users' choice of a restaurant

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Abstract

Title The effect of different types of online reviews on Instagram regarding users' choice of a restaurant
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The digital transformation in the hospitality and tourism industry has led to a multitude of upheavals and the development of new communication channels. Social media platforms have been widely used for the purpose of sharing information between consumers about products and services. More users share their experiences with restaurants with an online audience that goes far beyond their personal contacts. Online reviews provide valuable information for potential customers to facilitate their purchase decision. Additionally, restaurant managers benefit from feedback systems, as they are able to assess strengths and weaknesses of their services.

Previous studies have shown that electronic Word-of-Mouth has had a significant effect on consumers' decision-making process in the hospitality industry. The restaurant sector in particular is one of the most strongly influenced by social media platforms such as Instagram. This research study focuses on the effect of different types of online reviews on Instagram regarding users' choice of a restaurant. An empirical approach was chosen to evaluate the effects of reviews on Instagram on consumer behavior in the restaurant sector. A survey designed to gain insights into user's responses to relevant Instagram content collected 316 valid responses. The results show that content showcasing food quality, service quality and restaurant atmosphere has a significant and positive impact on trust, customer perceived value and thereby, purchase intention. This study provides valuable information to restaurants, identifies areas of research that can help them understand the power of Instagram and take advantage of online reviews on Instagram as a new marketing tool.

Keywords eWOM, online reviews, social media, Instagram, restaurant attributes, trust in content, customer perceived value, purchase intention, hospitality, tourism

Sumário

Título	O efeito de diferentes tipos de revisões on-line na Instagram sobre a escolha dos usuários de um restaurante
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A transformação digital na indústria hoteleira e turística tem levado a uma multiplicidade de convulsões e ao desenvolvimento de novos canais de comunicação. Mais usuários compartilham suas experiências com restaurantes com um público online que vai muito além de seus contatos pessoais. As análises online fornecem informações valiosas para os potenciais clientes para facilitar a sua decisão de compra. Além disso, os gerentes de restaurantes se beneficiam de sistemas de feedback, pois são capazes de avaliar os pontos fortes e fracos de seus serviços.

Estudos anteriores mostraram que a palavra eletrônica boca a boca teve um efeito significativo no processo de tomada de decisão dos consumidores na indústria hoteleira. Este estudo de pesquisa foca o efeito de diferentes tipos de revisões on-line na Instagram sobre a escolha dos usuários de restaurantes. Uma abordagem empírica foi escolhida para avaliar os efeitos das críticas sobre o Instagram na escolha de um restaurante. Uma pesquisa concebida para obter insights sobre as respostas dos usuários aos conteúdos relevantes do Instagram coletou 316 respostas válidas. Os resultados mostram que o conteúdo que mostra a qualidade dos alimentos, a qualidade do serviço e a atmosfera do restaurante tem um impacto significativo e positivo na confiança, no valor percebido pelo cliente e, portanto, na intenção de compra. Este estudo fornece informações valiosas aos restaurantes, identifica áreas de pesquisa que podem ajudá-los a entender o poder da Instagram e aproveitar as análises on-line da Instagram como uma nova ferramenta de marketing.

Palavras-Chave eWOM, online reviews, social media, Instagram, restaurant attributes, trust in content, customer perceived value, purchase intention, hospitality, tourism

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List of Abbreviations

AT	Atmosphere
eWOM	Electronic Word-of-Mouth
FQ	Food quality
K-S	Kolmogorov-Smirnov
KMO	Kaiser-Meyer-Olkin
PCA	Principal component analysis
PI	Purchase intention
RQ	Research question
SQ	Service quality
TR	Trust in the content
UGC	User-generated content
VAL	Customer perceived value
WOM	Word-of-Mouth

1. Introduction

In today's competitive restaurant market, it is assumed that the key to gain an advantage towards other competitors lies in delivering high-quality service that will lead to customer satisfaction (Han and Ryu, 2007). Especially, service quality has become the core marketing priority since it is a prerequisite of consumer loyalty, such as repeat sales and positive WOM (Han and Ryu, 2009; Liu and Jang, 2009b). In the hospitality and tourism industry, online consumer reviews have been studied for various research problems (e.g. Kim et al., 2016; Xiang et al., 2017; Xiang and Gretzel, 2010). Consumers are more likely to visit a restaurant with positive reviews; however, if critics are negative in their reviews, people might stay away (Resnick et al., 2000). Restaurant guests that are willing to share positive Word-of-Mouth (WOM) represent a crucial source of generating long-term profitability (Marinkovic et al., 2014).

Social media platforms are an essential tool to understand consumers' needs, to gain more knowledge about their attitude and to maintain effective relationships. Online platforms, such as Instagram, are an important source of information since consumers regularly evaluate products, services and experiences (Barreda et al., 2015; Colliander and Marder, 2018; Sheldon and Bryant, 2016). Despite the significant impact of eWOM in the hospitality industry, especially in the restaurant sector, few researches have been done to investigate Instagram as a platform for online reviews. In general, restaurant attributes, such as food quality, atmosphere, and service quality, can be perceived by users when they are browsing through social media. Research has shown that restaurant attributes can affect purchase intention (Yan et al., 2015) as well as trust in the content (Erkmen and Hancer, 2019) and customer perceived value (Ryu et al., 2012). Academics and managers know relatively little about how restaurant attributes elicit customer perceived value, trust in the content and purchase intention regarding the choice of a restaurant affected by online reviews on Instagram. To the best of our knowledge none of previous studies have examined the linkage between restaurant attributes and its effect on Instagram regarding the perceived value, trust and consumers' decision-making process. Consequently, this study aims to bridge these gaps by developing an integrated model that explicitly accounts for the effects of three components of restaurant attributes, customer perceived value, trust in the content and purchase intention.

1.1. Problem Statement

After reviewing user's content on Instagram, consumers' purchase intention in the context of choosing a restaurant can be affected by relevant restaurant attributes (Parasuraman et al., 1988; Ryu and (Shawn) Jang, 2008; Stevens et al., 1995), customer perceived value (Ryu and (Shawn) Jang, 2008; Sweeney and Soutar, 2001; Chiang and Jang, 2007) and trust in the content (Laurent et al., 1995; Weitzl, 2016; Chiang and Jang, 2007). Hence, this study aims to find out how restaurant attributes, communicated in the posts on Instagram, affect customer perceived value, trust in the content and thereby, purchase intention.

1.2. Research Objectives

This study investigates the effect of online reviews on Instagram regarding the choice of a restaurant and to better understand the role that an online review on Instagram has for a restaurant consumer and manager. Moreover, it focuses on the influence of the posted content on a set of dependent variables (customer perceived value, trust in the content and purchase intention towards the restaurant).

1.3. Research Questions

Given the growing popularity of Instagram and the lack of research of its impact on the restaurant industry, further research is necessary. In light of the increasing usage of online reviews in the hospitality industry, this study will focus on evaluating restaurant attributes (food quality, service quality and atmosphere) posted on Instagram, regarding customer perceived value, trust in the content and the impact on purchase intention. Therefore, the following research questions (RQ) were developed in order to investigate the topic:

RQ1. To what extent do different restaurant attributes (food quality, service quality and atmosphere), communicated in Instagram posts, impact customer perceived value towards the restaurant?

RQ2. To what extent do different restaurant attributes (food quality, service quality and atmosphere), communicated in Instagram posts, impact trust in the content towards the restaurant?

RQ3. What is the impact of customer perceived value on purchase intention regarding online reviews on Instagram?

RQ4. What is the impact of trust in the content (communicated in Instagram posts) on purchase intention?

1.4. Scope

In order to narrow the scope of this dissertation, the main focus was on online reviews of a restaurant on Instagram. Due to time constraints, the researcher chose to focus the analysis on the impact of restaurant attributes (food quality, service quality and atmosphere) communicated in posts on Instagram, might have on customer perceived value and trust in the content. Moreover, the impact of customer perceived value and trust in the content on purchase intention. The research will be restricted to the source of the social media platform, Instagram and its user-generated content (photos and comments).

1.5. Significance of the Study

This study is important both, theoretically and practically. It attempts to introduce a conceptual model that focuses on the relationship between restaurant attributes, customer perceived value and trust in the content, thereby on purchase intention. Practically, this study can provide various insights into the important role of restaurant attributes, customer perceived value and trust in the content to managers of a restaurant.

1.6. Dissertation Outline

This dissertation consists of five chapters. In the beginning a brief introduction of the topic, problem statement, research objectives and questions, the scope and the significance of the study are presented. The second chapter represents the literature review, providing an overview of the relevant theories and previous works on this topic. The third chapter establishes the methodology used within this research study. The fourth chapter provides the results and analysis of the data. Finally, chapter five represents the main conclusions, academic contributions, managerial contributions, limitations and topics for further research.

2. Literature Review

This chapter represents a literature review, based on previous studies and empirical evidences provided on journals, academic papers and concepts which can be seen on the conceptual framework of this study. First, the researcher starts with an overview about the hospitality industry, social media and its importance. Second, eWOM, Instagram, online reviews, user-generated content (UGC) and restaurant attributes will be further discussed. These topics are followed by a brief reference to the effect of restaurant attributes and customer perceived value, trust in the content and purchase intention. Additionally, it presents the conceptual framework and the developed hypotheses.

2.1. The Hospitality Industry

The hospitality industry has been exponentially expanding in the past decades. Hospitality refers to the service industry including hotels, restaurants and other tourism-related services. Therefore, this industry is important not only for societies but also for economics, customers and employees. According to Ottenbacher et al. (2009), restaurants are one of the six largest industries in the field of hospitality-tourism. Previous research on the hospitality industry has generally focused on the perspective of restaurants as service providers (Marinkovic et al., 2014).

2.2. Social Media

Over the last decade, social media websites are considered as the most powerful development for an interactive way of communication (Xiang et al., 2015). Kaplan and Haenlein (2010) define social media as “a group of internet-based applications that builds on the ideological and technological foundations of Web 2.0, and it allows the creation and exchange of UGC”. Web 2.0 enables consumers to extend their experiences and insights of the economy and social areas (Constantinides and Fountain, 2008). Blogs, social media networks, forums, and online communities are considered as different categories of Web 2.0 (Constantinides and Fountain, 2008). Social media websites are platforms, where users can participate, create and distribute content such as blogs, reviews, social networking service, online communities, virtual game worlds etc. (Kaplan and Haenlein, 2010). Social media has a variety of different functions that make it possible for users to develop and distribute content that is mostly generated by themselves or others (Kaplan and Haenlein, 2010). Social media as a marketing tool is becoming an elemental part of a business’ promotional mix (Chu and Kim, 2011). They create online profiles with their demographic and lifestyle characteristics, which enables companies

to better understand personalized services (Buhalis, 2000). Generally, social media is a great opportunity for companies to enhance their marketing, improve their brand image and promote their products or services in a cost-effective way (See-To and Ho, 2014). Moreover, it enables them to engage with their customers and to get better insights.

2.3. The importance of Social Media in the Hospitality Industry

Social media and search engines have significantly impact the hospitality and tourism sector (Leung et al., 2013). Moreover, it was shown that in order to increase the awareness of restaurant services it is crucial to view the entire process from consumers' perspective (Andersson and Mossberg, 2004; Warde and Martens, 2000). Academic studies also discovered the capacity of social media in helping tourism and hospitality companies to engage with potential customers (Leung et al., 2013). Nowadays it is possible to exchange information more easily and it enables interactions between online users, especially when it comes to online restaurant consumers.

Generally, marketers need to deal with the challenge that consumers can talk about a product or service in an environment without any rules and restrictions. Companies lose control about the content that users create and distribute about their brand on social media platforms (Kaplan and Haenlein, 2010). Users gather to get more information about new products and services in the market through sharing at photos, watching videos, writing comments and uploading reviews (Barreda et al., 2015). The implementation of social media is a marketing communication for restaurants and supports the creation of a deeper connection between a brand and a consumer (Chu and Kim, 2011). Although social media, has had an enormous impact in the restaurant industry, there is a lack of empirical data to define and explain the task of Instagram in the context of online recommendations regarding restaurants. Given the importance of Instagram and its potential impact on the online restaurant community, it is considered to be essential to understand the content posted on this platform in regard of the choice of a restaurant.

2.4. Electronic Word-of-Mouth

WOM is a marketing communication, which is appearing among consumers (Buttle, 1998). Moreover, it is the process of sharing information and opinions regarding a specific product or service between customers (Jalilvand, 2012). The concept of traditional WOM has evolved to eWOM. eWOM can be a positive or negative comment, opinion or review about a product or

company, distributed by customers (Hennig-Thurau et al., 2004). Today, WOM is both online and offline (face-to-face) communication.

Since the development of Web 2.0, a range of new opportunities have changed consumers' attitude and therefore, consequently, companies' and brands' marketing strategies. Consumers started quickly using web 2.0 tools (e.g. consumer review sites, social networking sites) to communicate and interact with other users (Lee et al., 2008). eWOM is targeting a much wider audience and has a global impact and influence on consumers (Gretzel, 2017; Ye et al., 2011). With the growing availability and popularity of eWOM, online product reviews are now an emerging market phenomenon that is playing an increasingly important role in consumers' attitude (Chu and Kim, 2011). eWOM influences consumers' attitude, purchase intention and behavior in the online and offline market (Reichelt et al., 2014).

As a result, it is important for restaurants to pay attention to online feedback. Restaurants try to keep any negative information to a minimum and maximize positive feedback (Reichelt et al., 2014). Well-organized social media sites can create virtual relationships with existing customers or convince a new guest to visit a restaurant (Pantelidis, 2010). Social media provides restaurants with the opportunity to create and evolve their brand image by engaging in eWOM without investing a lot of money in traditional marketing communication (See-To and Ho, 2014). Additionally, a restaurant can oversee its online reputation by actively participating in social media (Needles and Thompson, 2013). Marketeers and also restaurant managers need to understand the concept of eWOM and consumers' engagement, since this leads to a better managing of its potential force in PI (Goldsmith and Horowitz, 2006). Instagram and online reviews need to be discussed in this research to highlight the most relevant types of eWOM for this study.

2.4.1. Instagram

Instagram is a social media platform where users can share their photos and videos (Barreda et al., 2015). The ability to share photos with others is one of the main reasons why people started to use social media platforms, such as Instagram (Colliander and Marder, 2018). Instagram gives people the opportunity to present their pictures with an online audience that goes far beyond their personal contacts (Colliander and Marder, 2018). Since its launch in 2010, it has quickly become a new marketing medium and is considered as one of the most popular photo and video capturing and sharing application in the Web 2.0 (Hu et al., 2014). It offers its users various ways to share their photos and videos using their mobile devices (Hu et al., 2014). Users

on Instagram are called “followers” (Hu et al., 2014). Users can see photos and videos by viewing a core page, called “feed”. As a recent trend, more and more restaurants publish photo or video content about their food, service staff, atmosphere etc. Instagram provides a complete communication facility, from restaurant branding to UGC (Fatanti and Suyadnya, 2015). This platform initially serves as a media for online photography evolve effectively in providing information services fast, precise and efficient (Doolin et al., 2002; Sweeney, 2000).

Since consumers use Instagram significantly more than any other website, it is important for companies to know why their customers might use this platform and what they can expect from this application (Sheldon and Bryant, 2016). In the scope of this dissertation, the social media platform Instagram can give us a new idea about the role of online reviews in the restaurant sector. Instagram creates good and bad impressions based on the personal experience towards a restaurant (Hanan and Putit, 2014). The content creates its own impression to the viewer and shares the experience on a particular restaurant visit (Hanan and Putit, 2014). Instagram is an important tool for users to express their feeling towards restaurant experiences. The uniqueness and the art of photo content can create emotions towards restaurants. The environment and atmosphere of a restaurant may be better captured in a picture than in a written review on other online review websites.

2.4.2. Online Reviews

Unrestricted consumer review access has shifted market power from companies to consumers (Parikh et al., 2014). For the tourism and hospitality industry, reviews and recommendations are crucial for their success and failure. According to the National Restaurant Association, 92% of frequent social media users eat at a restaurant at least once a month and 32% of consumers use their mobile device during a visit, meaning that one third of all visitors are sharing their meal to their audience via social media (Storms, 2014).

Online reviews have changed consumers’ decision making in the hospitality and tourism sector. According to Everett (2019), 33% read peer online reviews before selecting a restaurant to visit. When consumers have only limited source of information about a restaurant, they are more likely to inform themselves upfront (Parikh et al., 2014). For restaurant consumers, user-generated websites can be a good source of information which helps them reduce consumers’ perceived purchase risk (Parikh et al., 2014). In the tourism and hospitality industry, the consumers’ decision-making process is highly influenced by eWOM (Gretzel, 2017; Ye et al., 2011). For example, online reviews written by tourism consumers are seen as more reliable

then information distributed directly by travel service providers (Ye et al., 2011). In particular, online reviews provide helpful information for future consumers when choosing a restaurant (Titz et al., 2004). Restaurant reviews introduce an assortment of information that simplify consumers' decision-making process. When observing these reviews, consumers can get detailed information, for example, about the restaurant atmosphere, the quality of service and food. Simultaneously, this allows managers to learn what people say about their restaurant and provides them with many opportunities to improve their performance (Needles and Thompson, 2013). Generally, there are two types of online reviews: consumer-generated reviews that are based on personal experiences, and reviews that are written by professional editors (Chu and Kim, 2011). In light of the research objective, this study focuses on UGC.

2.4.3. User-Generated Content

UGC is growing in its popularity. UGC describes different forms of media content that are publicly available and distributed by users (Kaplan and Haenlein, 2010). According to Xiang and Gretzel (2010), UGC can be supported through the use of social media and can be defined as "a mixture of facts and opinions, impressions and sentiments, founded and unfounded tidbits, experiences, and even rumors". Feedback from users serves as an information channel for consumers (Parikh et al., 2014). Due to the perceived independence of the message source, content generated on social media is considered to be an influential source of information (Ladhari and Michaud, 2015).

From a restaurateurs' perspective, these platforms can provide insights into preferences, needs and reactions of customers (Miguéns et al., 2008). The aim of online restaurant reviews is to inform potential customers about the strengths and weaknesses of a restaurant (Parikh et al., 2014). Users seek to distribute reviews that are helpful to peer-users who are not familiar with the reviewed restaurant (Parikh et al., 2014).

The combination of social media with the technology of mobile devices makes capturing an experience enjoyable (Jiménez and Mendoza, 2013). In the hospitality context, photo content provided on Instagram is a symbol of reality and user-experience. Experience goods such as restaurant visits, can only be fully assessed after the purchase (Nelson, 1970). Nelson's (1974) research leads to the assumption that is of great importance for consumers to gather information before purchasing the product or service. In general, consumers are more insecure when it comes to experience goods simply because people are more likely to have an individual's opinion about the quality of a product or service that might differ from traditional advertising

(Jiménez and Mendoza, 2013). In order to analyze the product performance of experience goods, consumers look for a few online reviews that agree on the same things rather than a particular information (Jiménez and Mendoza, 2013).

This study focuses on UGC (photos and comments) on Instagram in order to investigate the relation between restaurant attributes, such as food quality, service quality and atmosphere, trust in the content, customer perceived value and purchase intention in regard of restaurant visits. Based on the literature presented above, it can be assumed that in general consumers tend to trust recommendations of peer-users. Especially within Instagram, where users are able to offer a brief overview in the form of photos and comments, it might be a suitable platform for experience goods advertising such as booking a restaurant. Posting a picture with a short comment might be enough to trigger purchase intentions.

2.5. Restaurant Attributes

To examine the impact of online reviews on Instagram regarding restaurants, it is necessary to identify the relevant attributes. Previous research has highlighted the most important attributes in the hospitality industry, especially in the restaurant sector (Azevedo et al., 2017; Kim et al., 2009; Marinkovic et al., 2014; Ryu et al., 2012). Food quality, service quality and atmosphere can affect consumers' purchasing behavior and repurchasing behavior (Booms and Bitner, 1982; Brady and Cronin, 2001; Jang and Namkung, 2009; Ryu et al., 2012; Zeithaml et al., 1996). Food quality is one of the components that contributes to overall satisfaction with a dining experience (Sulek and Hensley, 2004). Sulek and Hensley (2004) stated that food quality has a significant effect on revisit intention. A customer might evaluate multiple attributes when determining food quality, but he or she is mainly judging three general food characteristics: safety, appeal and dietary issues (Sulek and Hensley, 2004). Although food safety might not be immediately apparent, customers notice undercooked food or food with an off-taste (Chung and Hoffman, 1998). Food appeal includes taste, presentation, textures, colors, temperature, size of the portions, and entrée complexity (Sulek and Hensley, 2004).

However, restaurant customers also evaluate the quality of the received service (Fitzsimmons and Maurer, 1991). Ladhari et al. (2008) state that service quality is an important trigger for customers' satisfaction. Previous research has determined that the performance of service staff (Kim and Cha, 2002; Zeithaml et al., 1996) and physical environment (Ryu and (Shawn) Jang, 2008) has a significant impact on the overall satisfaction.

Additionally, restaurant atmosphere may also affect consumers' purchase intention. It involves

greater complexity and includes factors such as lighting, color, cleanliness and music (Sulek and Hensley, 2004). A manager can express the restaurant's characteristics by these elements and creates an expectation of the dining experience even before a customer is served (Bitner, 1990).

In the context of this study, the researcher aims to investigate if UGC (posts and comments) on Instagram about food quality, service quality or restaurant atmosphere might trigger a restaurant visit for users. Therefore, it is interesting to analyze the impact of restaurant attributes on customer perceived value.

2.6. Effects of Restaurant Attributes and Customer Perceived Value

Zeithaml (1988) defines customer perceived value as “the result of the personal comparison between perceived overall benefits and the perceived sacrifices or costs paid by the customer”. According to Ryu et al. (2012), restaurant attributes have a positive and significant effect on perceived value. Ryu et al. (2012) found that customers who have a positive restaurant image are more likely to believe that the restaurant offers good customer perceived value and high customer satisfaction.

Existing literature shows that product and service quality can predict customer perceived value (Bolton et al., 2004; Chen and Hu, 2010; Ryu et al., 2012). Previous studies have highlighted food quality (Delwiche, 2004; Jang and Namkung, 2009), service quality (Parasuraman et al., 1988) and restaurant atmosphere (Law et al., 2008) for the concept of customer perceived value. Service quality features (e.g. tangibles, empathy, reliability and responsiveness) have a positive relationship with customer perceived value (Eggert and Ulaga, 2002; Parasuraman et al., 1988). Ryu and (Shawn) Jang (2008) show that food quality significantly affects perceived value. By combining the definition of the customer perceived value (Zeithaml, 1988) and the research mentioned above, we can conclude that the perceived benefits or value by a customer must be related to food quality, service quality, and/or atmosphere. This finding is also consistent with other research conducted by Ryu et al. (2008, 2012). However, considering the fact that customer perceived product quality influences perceived value of customers in the context of restaurants, it is logical to propose the link between food and service quality as well as restaurant atmosphere. According to Han and Ryu (2009), there is a positive relationship between restaurant physical environment and customer perceived value. Liu and Jang (2009) demonstrate the relationship between atmospherics, emotional responses and customer perceived value. As a result, Liu and Jang (2009) show that a restaurant's atmosphere has a

significant effect on customer perceived value. Therefore, the perceived value of Instagram users can be based on their perception from UGC of food quality, service quality and atmosphere. This leads us to develop the following hypotheses of this study:

H1a. The food quality level, communicated in the posts, has a significant and positive impact on customer perceived value towards the restaurant.

H1b. The service quality level, communicated in the posts, has a significant and positive impact on customer perceived value towards the restaurant.

H1c. The atmosphere level, communicated in the posts, has a significant and positive impact on customer perceived value towards the restaurant.

In order to answer the research questions, Instagram was chosen as an example for social media platforms, where content about restaurants often appears. Understanding the broadness of this topic and how it affects the trust in the content is crucial for this study. Therefore, trust in the content will be discussed.

2.7. Effects of Restaurant Attributes and Trust in the Content

In the theoretical model presented in this dissertation, the researcher considers trust in the content on social media platforms, such as Instagram, and eWOM as an important variable, which may affect individual's behavior in purchase intentions. Hence, this concept is crucial for answering the research questions. This chapter is going to explain the concept behind trust in the content.

84% of consumers trust online reviews as much as personal recommendations (Robben, 2018). Trust is a psychological instrument, which helps people to reduce any doubts when they are interacting with others (Weitzl, 2016). People are confronted with the theory of trust every day (Weitzl, 2016). According to Weitzl (2016), trust is fundamental for people to be able to deal with society and any kind of relationships. Since trust also plays an important role in the context of economy and marketing, marketers are highly interested about its part in business-related subjects (Weitzl, 2016). Trust is of great importance when it comes to sharing knowledge (Weitzl, 2016). Chai and Kim (2010) state that within eWOM trust is the basis for people to be part of a social connection including sharing and trading knowledge. Moreover, trust also has a beneficial effect on consumer behavior and their choice to share knowledge online (Chai and Kim, 2010). Trust in eWOM, including Instagram and online reviews, is expected to increase the value of the content (Weitzl, 2016).

Weitzl (2016) categorizes the key elements and dimensions of trust in eWOM as following: trusting beliefs (usefulness, honesty and benevolence), trusting attitudes (likeability) and trusting intentions (willingness to rely on). For the purpose of the study, trust is used as the sense of trusting beliefs and trusting attitudes. The degree in which somebody thinks that the other individual is trustworthy and feels good about their beliefs is known as trusting beliefs (Weitzl, 2016). Kim and Tadisina (2007) define trusting attitudes as an individual's assessment of characteristics that want to be perceived as trusted. The table below demonstrates these two important key elements of eWOM. The dimensions were adjusted accordingly to the research objectives. Understanding the different dimensions of trust helps to further understand the conceptual framework and the importance for UGC of food quality, service quality and atmosphere.

Elements	Dimensions	Definition
<i>Trusting Beliefs</i>	<i>Usefulness</i>	<i>The consumer believes that the eWOM content is useful and an adequate source of purchase-relevant information/ recommendations.</i>
	<i>Honesty</i>	<i>The consumer believes that the distributed information is believable and truthful and adheres to moral standards.</i>
	<i>Benevolence</i>	<i>The consumer believes that the eWOM content is motivated by the user's positive intention toward consumers' welfare.</i>
<i>Trusting Attitudes</i>	<i>Likeability</i>	<i>The consumer's positive attitude towards eWOM.</i>

Table 1. Trusting beliefs and attitudes as key elements of eWOM trust (Weitzl, 2016)

In this study, trust in the content can be considered as a personal trust towards other users on Instagram. For example, when a user is exposed to content of food quality, service quality or restaurant atmosphere, it is important that an individual perceive these photos and comments as useful and an adequate source of purchase-relevant information (Weitzl, 2016). Moreover, users need to have the feeling that the posts are honest, believable and truthful (Weitzl, 2016). On the other hand, it is crucial that users believe that the content is motivated by the other user's positive intention towards his or her welfare (Weitzl, 2016). Hence, the concept of trust in the content can be defined by the usefulness, honesty, benevolence and likeability and will be further analyzed in the study.

- H2a. The food quality level, communicated in the posts, has a significant and positive impact on trust in the content towards the restaurant.*
- H2b. The service quality level, communicated in the posts, has a significant and positive impact on trust in the content towards the restaurant.*
- H2c. The atmosphere level, communicated in the posts, has a significant and positive impact on trust in the content towards the restaurant.*

The research discussed in this chapter serves as a background for consumers' attitudes towards eWOM. Since perceived value and trust in eWOM is important for consumers' potential behavior, such as purchase intention, it makes sense to include these concepts in this dissertation. Related to Instagram, this would mean that if the posts about restaurant attributes are truthful enough (Weitzl, 2016), people might visit or book a restaurant. Further, since the source of trust also plays an important role in eWOM (Di Virgilio, 2018), it can be assumed that the UGC needs to be perceived as valuable and adequate in order to trigger purchase intention.

2.8. Customer Perceived Value, Trust in the Content and Purchase Intention

It is clear that within the restaurant industry, managers want to increase their profit, financial performance, and marketing is one of the important tools to do so. Recent studies showed that online marketing helps different industries to improve their performance (Ladhari et al., 2008). In general, intentions to perform all kind of behaviors can be predicted from attitudes toward the behavior and subjective norms (Ajzen, 1991). The theory of planned behavior shows that a person's intention to engage in a certain behavior is formed by his or her attitudes toward the behavior, subjective norms and perceived behavioral control (Ajzen, 1991). Consumers' attitude has an influence on their behavior and furthermore, it affects their purchase intention (Lu et al., 2014). This underlying theory is a good construct to further investigate in this field. With the objective of mitigating perceived risk, consumers often analyze information posted by peer consumers about products and services they want to buy (Khammash and Griffiths, 2011; Pitta and Fowler, 2005). Also, the influence of consumer attitudes towards a blog on purchase intention is significantly positive (Bouhleb et al., 2010). Before buying a product or service, consumers evaluate different attributes and precisely investigate their importance. After this process, they make the purchasing decision.

Purchase intention is the likelihood that consumers will consider buying a product or service in the future (Wu et al., 2011). Consumers' purchase intention derives from their approach of product value (Lee and Lee, 2009). Purchase decisions are often influenced by the content which people read online about a product or service (Hsu and Tsou, 2011). According to Alhidari et al. (2015), due to high consumer involvement, social networking sites improve purchase intentions towards products and services. Bouhleb et al. (2010) states that there is a positive relationship between consumer attitudes towards a blog and consumers' purchase intention. Based on the theory of planned behavior (Ajzen, 1991) and also, the technology acceptance model (Davis, 1993), this study assumes that the subjective norms and perceived usefulness can affect purchase intention. Therefore, it can be proposed that this might be accurate for Instagram posts as well. As we discussed above, these factors can be seen in the concept of trust (Weitzl, 2016; Kim and Tadisina, 2007). Beside of that, Instagram users may perceive the content as an adequate and useful source of recommendations (Weitzl, 2016) when searching for restaurants. This study suggests that consumers' purchase intention is connected to the trust and perceived value of UGC about food quality, service quality and atmosphere. Hence, the following hypotheses were developed:

- H3. Customer perceived value regarding the restaurant has a significant and positive effect on purchase intention towards the restaurant.*
- H4. Trust in the content has a significant and positive effect on purchase intention towards the restaurant.*

2.9. Conclusion and Conceptual Framework

Based on the findings in the literature, this study examines purchase intention in the context of Instagram from the perspective of restaurant attributes, trust and customer perceived value. It states that food quality, service quality and atmosphere, presented in the posts on Instagram, are determined by customer perceived value and trust in the content. In addition, trust in the content and customer perceived value have been identified as important factors affecting purchase intention in the context of social media platforms (Gruen et al., 2006; Lu et al., 2016; Park and Kim, 2008).

3. Methodology

The purpose of this chapter is to outline the methodology adopted in this dissertation and to describe how data was collected, measured and analyzed.

3.1. Research Approach

The research objective of this study was to investigate the influence of food quality, service quality and atmosphere, communicated in the posts, and the role of trust in the content and perceived value on purchase intention. The conceptual framework shows that purchase intention is hypothesized to be influenced by trust in the content and customer perceived value. The nature of these relationships in turn are affected by food quality, service quality and atmosphere, communicated in the posts, which are treated in the data analysis as independent variables with multiple-scale measures.

To address the proposed research questions and objectives, primary and secondary data, including journal articles, academic papers and data generated by an online survey, were collected. Secondary data was used in the development of the Literature Review chapter.

Three different types of research methods, such as the exploratory, descriptive and confirmatory, can be mentioned (Saunders et al., 2009). This dissertation applies all three types. The initial part of this research study uses exploratory research by analyzing the literature. To prove the viability of the study, different theories were analyzed in order to create an idea of the main theme, thus descriptive research was applied (Brady and Cronin, 2001; Chiang and Jang, 2007; Jang and Namkung, 2009; Kivela, 1997; Laurent et al., 1995; Namkung and Jang, 2007; Law et al., 2008; Parasuraman et al., 1988; Putrevu and Lord, 2013; Ryu and Jang, 2007; Ryu and (Shawn) Jang, 2008; Ryu et al., 2012; Sweeney and Soutar, 2001; Taylor and Baker, 1994; Weitzl, 2016). Here, the purpose is to explain more profoundly the main subject and to develop an idea of the missing parts. The confirmatory research connects these methods and its main objective is to test the mentioned hypotheses by conducting an online survey. The main purpose of quantitative research is to test the hypotheses that will allow to set conclusions and explain the main findings of this dissertation.

3.2. Research Design

An experimental design was implemented with respondents being presented to three different groups of posts, namely the quality of food, the quality of service and restaurant atmosphere. A survey was created in order to reach consumers directly and to test the hypotheses mentioned

in the section “Literature Review”. An online questionnaire was created using Qualtrics and distributed amongst different channels including social networks, such as Facebook, Instagram and WhatsApp, as well as through personal e-mails. With these options, it was possible to target the highest number of responses in an efficient and cost-saving way. The survey was accessible from 17th until 26th of November 2019.

3.3. Population and Sample Size

The target population consisted primarily of consumers, who have an experience with online reviews and users of Instagram. To ensure the understanding of all questions, the survey was published in English and German. A sample of at least 300 respondents with thus 100 respondents for each group was aimed in order to allow multivariate techniques for the data analysis. The sample was not restricted any further.

The used platforms guaranteed that the sample was random, since people from different gender and age were analyzed. The sampling technique applicable to this study is representative sampling. The probability of each case being selected is equal and therefore, inferences from the total sample can be obtained in order to answer research questions (Saunders et al., 2009). However, the participation was stimulated by the chance of winning a 30 Euros Amazon gift voucher.

3.4. Measurement

Table 1 presents all of measurement items that were assessed using a 7–point Likert-type scale, ranging from completely disagree (1) to completely agree (7). Five items were used in order to measure food quality (Jang and Namkung, 2009; Namkung and Jang, 2007; Ryu et al., 2012;). Service quality was measured using five items (Brady and Cronin, 2001; Jang and Namkung, 2009; Parasuraman et al., 1988; Ryu et al., 2012). In order to measure restaurant atmosphere, four items were used (Jang and Namkung, 2009; Kivela, 1997; Law et al., 2008; Ryu and Jang, 2007; Ryu and (Shawn) Jang, 2008). Furthermore, participants were asked to express their trust towards the content on Instagram, after having seen the photos and comments by the fictional user, with the help of five items from different studies by Chiang and Jang (2007), Kim and Tadisina (2007), Laurent et al. (1995) and Weitzl (2016) that can be seen in Table 2. However, customer perceived value was measured using five items (Chiang and Jang, 2007; Sweeney and Soutar, 2001; Ryu and (Shawn) Jang, 2008). Purchase intention was evaluated using four items from the study by Chiang and Jang (2007), Putrevu and Lord (2013) as well as Taylor and Baker (1994).

Author	Dimension	Items
Jang and Namkung, 2009; Namkung and Jang, 2007; Ryu et al., 2012	H1,2a: FQ	FQ1-The food is delicious. FQ2-I think the food is healthy. FQ3-The restaurant offers lots of menu items. FQ4-I think the restaurant offers fresh food. FQ5-The food presentation is visually appealing.
Brady and Cronin, 2001; Jang and Namkung, 2009; Parasuraman et al., 1988; Ryu et al., 2012	H1,2b: SQ	SQ1-I think that I will receive the food as I order it. SQ2-Employees try to minimize my waiting time. SQ3-The service staff pays attention. SQ4-The service staff is welcoming and friendly. SQ5-I would feel comfortable in this restaurant.
Jang and Namkung, 2009; Kivela, 1997; Law et al., 2008; Ryu and Jang, 2007; Ryu and (Shawn) Jang, 2008; Ryu et al., 2012	H1,2c: AT	AT1-The style of the restaurant fits me. AT2-The interior is appealing to me. AT3-I think that the lighting of the restaurant creates a cosy atmosphere. AT4-The furnishing is attracting me to visit the restaurant.
Chiang and Jang, 2007; Sweeney and Soutar, 2001; Ryu and (Shawn) Jang, 2008	H3: VAL	VAL1-I think that the money I am going to spend in the restaurant will match my expectations about the food quality. VAL2-I think that the money I am going to spend in the restaurant will match my expectations about the service quality. VAL3-I think that the money I am going to spend in the restaurant will match my expectations about the atmosphere. VAL4-I think the restaurant offers good value for the money. VAL5-The overall expected value of visiting the restaurant is high.
Chiang and Jang, 2007; Kim and Tadisina, 2007; Laurent et al., 1995; Weitzl, 2016	H4: TR	TR1-What the user says about the restaurant is true. TR2-I have a good impression about the experience of the previous customer. TR3-I believe that the user mostly says the truth about the restaurant. TR4-I refer to Instagram, when family and friends ask me about restaurants. TR5-This user's content is reliable.
Chiang and Jang, 2007; Putrevu and Lord, 2013; Taylor and Baker, 1994	PI	PI1-I am likely to visit the restaurant. PI2-I will recommend this restaurant to my friends and family. PI3-I would consider visiting the restaurant. PI4-I have no intention to visit this restaurant.

Table 2. Constructs

3.5. Stimuli

A stimulus pretest was conducted on Qualtrics to test the research participants on the relevant variables. The pretest was presented to 16 people. The aim was to get an impression of how the participants react to the stimuli, how much time it takes to complete the questionnaire and whether the number of items is tolerable.

For each set, we created three stimuli: food quality, service quality and atmosphere. Within these groups, a set of positive reviews was used. Three photos with additional comments were developed in order to create a review on Instagram. For example, a participant was exposed to the stimuli of food quality (Figure 1) and was asked to evaluate his opinion about the quality of food in a Likert-scale from 1 to 7 (1= completely disagree, 7= completely agree). This method was also applied to measure their opinion about service quality and atmosphere. In the next step, the participants were asked to evaluate the items of customer perceived value, trust in the content and purchase intention. Below, there are some examples of the stimulus “food quality” developed to illustrate the situations to investigate. Each of these scenarios were applied to the categories of food quality, service quality and restaurant atmosphere.

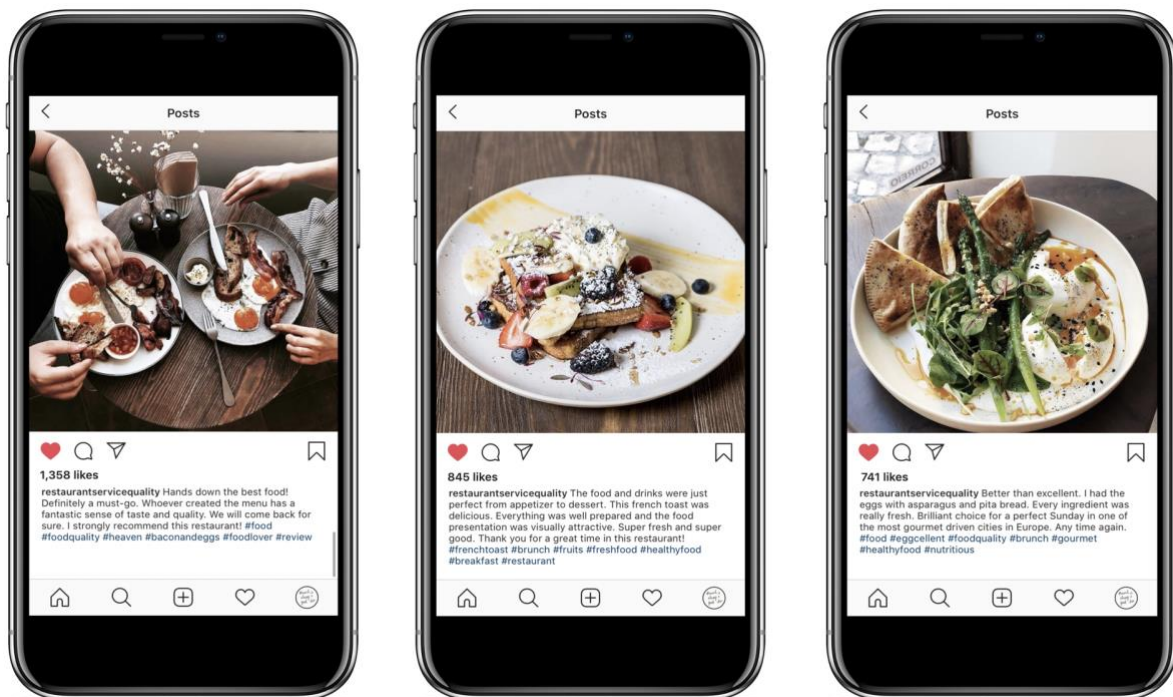


Figure 1. Stimuli: Food Quality

3.6. Questionnaire Design

The majority of questions in the online survey, were designed to provide greater insights into Instagram as a tool for restaurant reviews and recommendations. In line with the proposed conceptual framework, the questionnaire was divided into three main sections.

The first part included general questions pertaining to consumers' usage of online reviews and Instagram. The participants were asked how often they use online review platforms (e.g. Tripadvisor, Zomato, Facebook etc.). The platform this academic paper focused on was Instagram. Therefore, it is important to understand if people generally use this social media platform.

The second part aimed to seek consumers' opinion to measure the constructs, presented in Table 2, toward the perceived food quality, service quality and atmosphere. The survey unfolds in three blocks (food quality, service quality and atmosphere). The respondents were asked to imagine that they have seen the fictional profile "restaurant-service-quality" on Instagram on their mobile devices. For each independent variable (food quality, service quality and atmosphere) three different posts were shown. The scenario invited the participants to see pictures and read comments about the restaurant, concerning in particular the evaluation of food quality, service quality and atmosphere. Each participant was randomly and equally allocated to one of these groups. In order to guarantee randomness and homogeneity, they only answered to questions of that specific block. Some respondents were assigned to questions about food quality or service quality. Others answered questions about the atmosphere of a restaurant seen on the user's profile on Instagram. The questions after this section were the same for all respondents of all three groups.

With this set of questions being shown and after being exposed to the posts on Instagram, the participants were asked to indicate how completely they agree or disagree with statements about trust in the content and customer perceived value. Additionally, the respondents were asked to express their purchase intention towards the restaurant on a 7-point scale, being (1) "completely disagree; (4) "neither agree or disagree" and (7) "completely agree". This allows the researcher to analyze the different effects that posts on Instagram can have on consumers generated by other users regarding restaurant recommendations. Finally, the third part consists of responding consumers' demographics, including age, gender, current occupation, monthly income and nationality.

3.7. Data Analysis

The IBM SPSS® software platform was used in order to analyze the collected data via Qualtrics. It allowed to quantify consumers' trust in the content, perceived value and purchase intention, taking into consideration the three independent variables presented in the hypotheses H1 to H4.

In the beginning, descriptive analysis was performed regarding the demographics (gender, age, current occupation, monthly income and nationality). In order to check the reliability of the constructs, Cronbach's alpha was used, followed by a validity test. Hence, a Principal component analysis (PCA) was used to identify the linear components of a set of variables by extracting six factors (Field, 2009). In this study, PCA was conducted on 28 items with rotation varimax. To check if the population was following a normal distribution, the Kolmogorov-Smirnov (K-S) test was conducted (Field, 2009). The Pearson correlation was used to investigate the relationships between all variables to understand whether there is a correlation between food quality, service quality, atmosphere, customer perceived value, trust in the content and purchase intention. Regarding the hypotheses testing, linear multiple regressions were performed. Additionally, a One-Way ANOVA was used in order to measure which type of the content is more efficient in driving customer perceived value, trust in the content and purchase intention.

4. Analysis and Results

This chapter has the purpose of understanding the data collected and the analysis that was performed according to the methodology.

4.1. Sample Description

A total of 508 responses were recorded. From these responses, 71 out of 508 were eliminated through the screening questions, leaving a total of 437. In the screening question stage (Q1, Q2), the exclusion of respondents was based on the criteria that they never use online reviews when deciding for a restaurant (e.g. TripAdvisor, Zomato, Facebook, Google Reviews etc.) or do not use Instagram. On a scale from “(1) Never” to “(7) Always”, the results of the online reviews used when planning to visit a restaurant were the following: 28.5% of the respondents answered that they use sometimes online reviews when visiting a restaurant; 21.3% of the respondents answered almost always; 16.7% of the respondents answered that they use online reviews often; 12.9% of the respondents answered that they always use online reviews; 8.9% of the respondents answered that they rarely use online reviews; 4.2% of the respondents use online reviews occasionally and 7.6% of the respondents answered that they never use online reviews when visiting a restaurant. If people answered “(1) Never” for online reviews, they would be directed to the end of the survey. According to the survey, 87% of the participants used Instagram. 13% of the participants stated that they did not use Instagram and therefore, they also were directed to the end of the survey. Their insights would not be relevant for the present study. Finally, 316 responses were considered valid for the analysis, representing a valid response rate of 62.2%.

Among the 316 completed online surveys, 57.3% were female participants and 42.7% of the respondents were male participants, meaning that 181 women and 135 men successfully completed the questionnaire.

Number of Respondents	
AT	108
FQ	106
SQ	102

Table 3. Number of Respondents

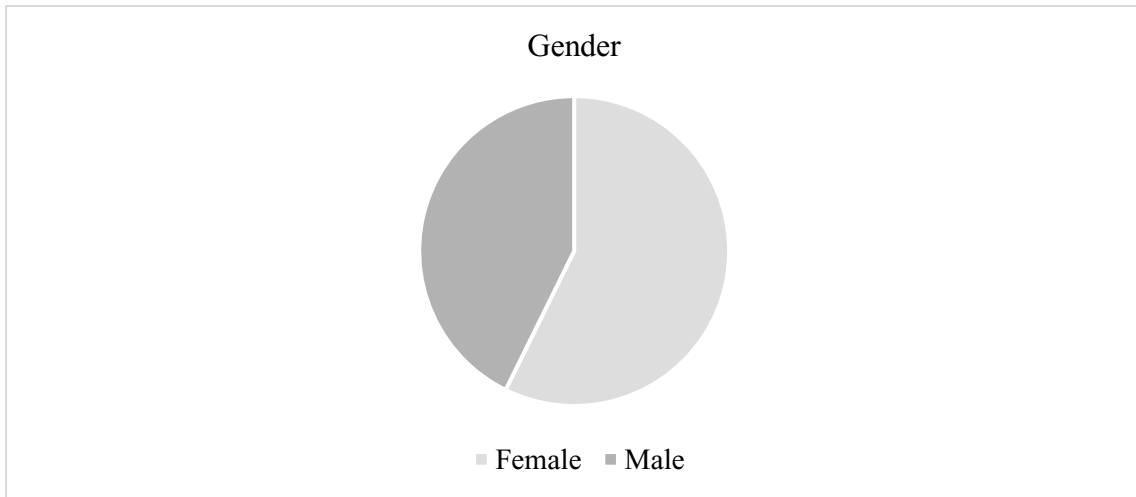


Figure 2. Gender

The majority of the respondents were aged between 25 and 34 years old, with a total percentage of 66.8; 20.3% were aged between 18 and 24 years old; 8.5% were aged between 35 and 44 years old; 2.2% were aged between 45 and 54 years old; 1.3% were aged between 55 and 64 years old; 0.6% were aged 65 years or older and finally, 0.3% were aged under 18 years old.

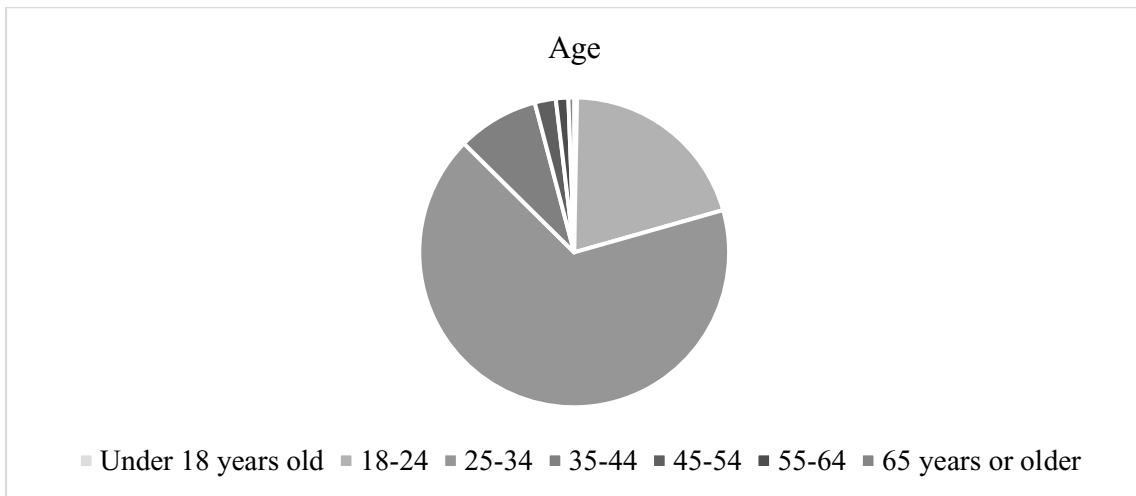


Figure 3. Age

Considering the current occupation, most respondents were employed (44.9%); 36.1% were students (Bachelor, Master, Other); 15.5% were self-employed. From the remaining participants, 1.6% were High School students and the remaining are either retired or unemployed (1.9%).

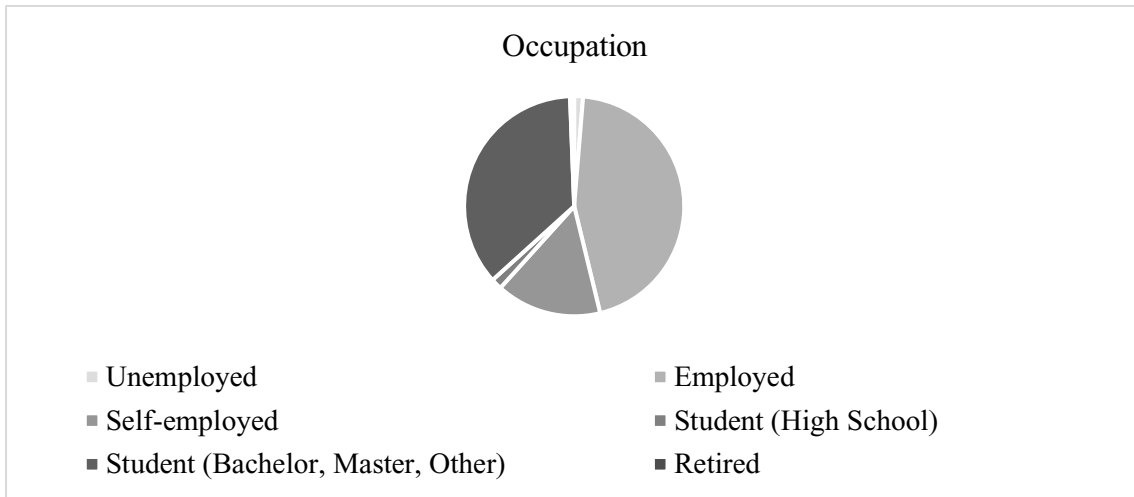


Figure 4. Occupation

Regarding the monthly income (after tax), 22.2% of the respondents stated that they have a monthly net income between €2000 and €2999; 16.5% have a monthly net income between €1500 and €1999; 12.7% have a monthly net income €1000 and €1499; 11.4% have a monthly net income €500 and €999; 9.5% have a monthly net income between €0 and €499; 8.2% have a monthly net income between €3000 and €3999; 6.3% have more than €4000 and finally, 13.3% of the participants preferred not to share their income level information.

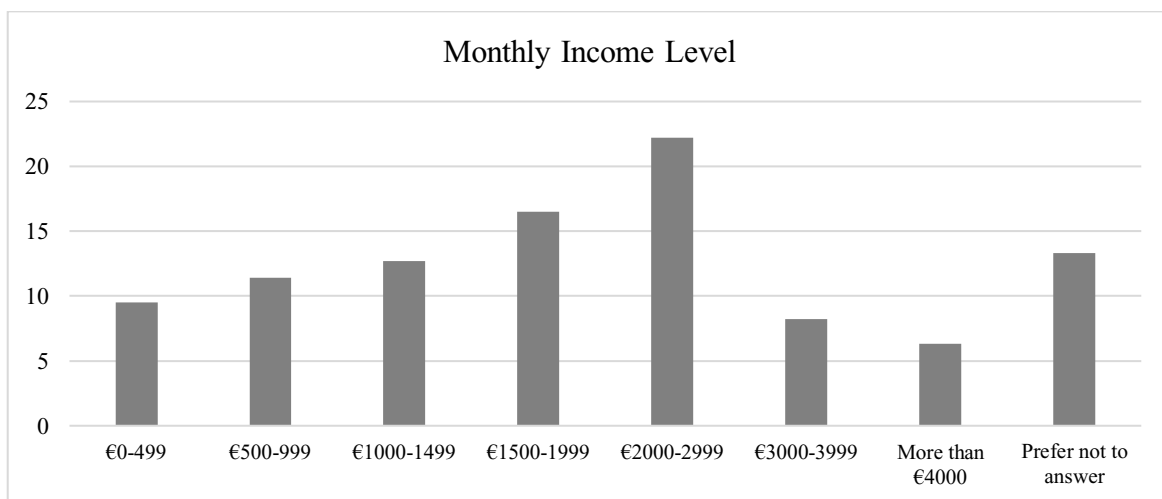


Figure 5. Monthly Income Level

More than half of the valid responses (55.7%) stated that they were from Austria; 24.1% were in Germany and the remaining 20.2% were from Portugal, Italy, United Kingdom of Great Britain and Northern Ireland, Belgium etc.

4.2. Reliability Test

In order to analyze the internal consistency of the measurements, meaning how closely related the constructs are as a group, the Cronbach's alpha was assessed.

Cronbach's alpha coefficient values below 0.6 are considered unacceptable; values between 0.65 and 0.70 are minimally acceptable; values between 0.7 and 0.8 are good and finally, values between 0.8 and 0.9 are considered as very good (DeVellis, 1991).

As shown in Table 3, all dimensions obtained a Cronbach's alpha greater than 0.8, which reveals a very good level of internal consistency of the constructs. For the first construct "FQ", the Cronbach's alpha was 0.859; for the second one was 0.932; for the third one was 0.855; for the fourth one was 0.877; for the fifth one was 0.868; and for the sixth one, it was 0.837. Table 3 demonstrates the Cronbach's alpha values.

Cronbach's Alpha		
Dimension	Number of Items	α
FQ	5	0.859
SQ	5	0.932
AT	4	0.855
TR	5	0.877
VAL	5	0.868
PI	4	0.837

Table 4. Cronbach's Alpha

4.3. Validity

With the purpose of assessing dimensionality of the scales and verifying if all factors are aggregated around the component they are supposed to measure, a PCA was performed. The PCA aims to reduce a larger set of variables into a smaller set of "artificial" variables. For this purpose, PCA was performed in order to define the factors by constructs. Considering the sample size, it can be concluded that the sample is adequate for a factor analysis, since 316 valid respondents compose it. As there are six constructs, namely FQ, SQ, AT, TR, VAL and PI, six factors will be presented.

In the questionnaire, the construct "PI" was composed by four items, being that three items were on a positive sense and one was negative. The negative item was converted to positive and then the analysis continued.

The Kaiser-Meyer-Olkin measure of sampling adequacy (KMO) values can differ from 0 to 1. If the value is close to 1 it means that the patterns of correlations are compact. Hence, the factor

analysis will present reliable factors. The results of KMO show a high value of 0.885; revealing a great adequacy of the sample presented.

A Varimax Rotation method was run in order to interpret the factors by putting each dimension on one of the factors. The following table represents information about the PCA including the loadings by factors and the percentage of the variance explained by factors.

PCA						
KMO = 0.885						
	Component					
	1	2	3	4	5	6
SQ (5 items)						
SQ 1	0.819					
SQ 2	0.833					
SQ 3	0.912					
SQ 4	0.886					
SQ 5	0.850					
VAL (5 items)						
VAL 1		0.782				
VAL 2		0.769				
VAL 3		0.734				
VAL 4		0.697				
VAL 5		0.697				
TR (5 items)						
TR 1			0.687			
TR 2			0.745			
TR 3			0.820			
TR 4			0.627			
TR 5			0.759			
FQ (5 items)						
FQ 1				0.866		
FQ 2				0.615		
FQ 3				0.684		
FQ 4				0.879		
FQ 5				0.883		
AT (4 items)						
AT 1					0.454	
AT 2					0.929	
AT 3					0.922	
AT 4					0.941	
PI (4 items)						
PI 1						0.798
PI 2						0.592
PI 3						0.824
PI 4						0.807

Table 5. Principal Component Analysis

4.4. Normality Test

An assessment of the normality of the data is necessary to confirm that the population follows a normal distribution, since this is an underlying assumption in parametric testing. According to the Central Limit Theorem, all variables can be considered distributed normally since the sample size is greater than 30 (Fischer, 2011). In order to build the required constructs, namely FQ, SQ, AT, TR, VAL and PI, a simple average was performed (e.g. $PI = (PI1+PI2+PI3+PI4)/4$). The following table shows the results from the K-S test and Skewness and Kurtosis test. The K-S-test is more appropriate for larger sample sizes and will be applied in this study. If the significance value of the K-S-test is greater than 0.05, the data is normal. Here, the distribution is significantly different from a normal distribution (sig. <0.05). With a skewness of 0.062 (AT), -0.291 (VAL), -0.103 (TR) and -0.54, the sample data for atmosphere, customer perceived value, trust and purchase intention are approximately symmetric (Bulmer, 1979). For Kurtosis, a general guideline is that if the number is higher than +1, the distribution is too peaked; if the value is less than -1, it indicates a flat distribution (Hair et al., 2017).

Normality Test						
	N	Mean	Std. Deviation	Skewness	Kurtosis	K-S
FQ	316	4.3911	0.82218	1.021	2.283	0.000
SQ	316	4.4373	0.88055	1.478	1.801	0.000
AT	316	4.0348	0.82974	0.062	3.343	0.000
VAL	316	4.7446	1.12089	-0.291	0.017	0.019
TR	316	4.8861	0.97691	-0.103	0.215	0.000
PI	315	5.0587	1.09252	-0.541	0.353	0.000

Table 6. Normality Test

4.5. Pearson's Correlation

Pearson's correlation is a measure of the strength and direction of association that exists between two variables measured. In order to determine the relationships between all variables, a Pearson's correlation was performed. Table 7 represents the Pearson's correlation coefficient values of all variables. Overall, it can be concluded that all correlations are positive and statistically significant ($p= 0.005$). Considering food quality, there is a strong correlation with purchase intention (0.115). As for service quality, it shows strong correlations with trust in the content and as for atmosphere, it strongly correlates with purchase intention (0.349) and trust in the content (0.345). The strongest correlation happens between trust in the content and customer perceived value (0.617).

Correlations						
	FQ	SQ	AT	TR	VAL	PI
FQ	1					
SQ	-0.248	1				
AT	-0.018	-0.034	1			
TR	0.114	0.317	0.345	1		
VAL	0.045	0.360	0.268	0.617	1	
PI	0.115	0.133	0.349	0.462	0.456	1

Table 7. Correlations

4.6. Hypotheses Testing

In this section, we will discuss regression analysis, which is used to assess the relationship between the dependent variables (VAL/TR) and the predictors (FQ, SQ, AT).

4.6.1. Hypotheses: H1a, H1b and H1c

To assess the association between food quality/service quality/atmosphere and customer perceived value, in which customer perceived value is the dependent variable, and food quality/service quality/atmosphere are the independent variables, a simple linear regression was performed. We considered data from three different groups: FQ (N=106), SQ (N=102) and AT (N=108).

First, we are 95% confident that food quality has a significant and positive impact on customer perceived value since the p-value equals zero. The impact is positive, because the coefficient is 0.375. In other words, for every unit increase in food quality, customer perceived value goes up by 0.375 units. Considering the value of R square, 14.7% of the variation of customer perceived value can be explained by food quality. H1a is accepted by this study.

Second, we are 95% confident that service quality has a significant and positive impact on customer perceived value since the p-value equals zero. The impact is positive, because the coefficient is 0.548. In other words, for every unit increase in service quality, customer perceived value goes up by 0.548 units. Considering the value of R square, 41.5% of the variation of customer perceived value can be explained by service quality. H1b is accepted by this study.

Third, we are 95% confident that atmosphere has a significant and positive impact on customer perceived value since the p-value equals zero. The impact is positive, because the coefficient is 0.444. In other words, for every unit increase in atmosphere, customer perceived value goes up by 0.444 units. Considering the value of R square, 30.8% of the variation of customer perceived value can be explained by atmosphere. H1c is accepted by this study.

Impacts	Hypothesis	B coefficient	R square	p-value	Regression Equation
FQ→VAL	H1a	0.375	0.147	0.000	VAL=0.375*(FQ)+2.705
SQ→VAL	H1b	0.548	0.415	0.000	VAL=0.548*(SQ)+2.195
AT→VAL	H1c	0.444	0.308	0.000	VAL=0.444*(AT)+2.419

Table 8. Regression: H1

4.6.2. Hypotheses: H2a, 2b and 2c

For hypothesis 2a, 2b and 2c a simple linear regression was performed. Again, each group was analyzed separately: FQ (N=106), SQ (N=102) and AT (N=108). The table below shows the results.

We are 95% confident that food quality has a significant and positive impact on trust in the content because the p-value equals zero. Besides, this impact is positive because the coefficient is 0.477. In other words, for every unit increase in food quality, trust in the content goes up by 0.477 units. Considering the value of R square, 19.2% of the variation of trust in the content can be explained by food quality. Consequently, H2a is accepted by this study.

We are 95% confident that food quality has a significant and positive impact on trust in the content because the p-value equals zero. Besides, this impact is positive because the coefficient is 0.566. In other words, for every unit increase in service quality, trust in the content goes up by 0.566 units. Considering the value of R square, 34.5% of the variation of trust in the content can be explained by service quality. Consequently, H2b is accepted by this study.

We are 95% confident that atmosphere has a significant and positive impact on trust in the content because the p-value equals zero. Besides, this impact is positive because the coefficient is 0.492. In other words, for every unit increase in atmosphere, trust in the content goes up by 0.492 units. Considering the value of R square, 25.3% of the variation of trust in the content can be explained by A. Consequently, H2c is accepted by this study.

Impacts	Hypothesis	B coefficient	R square	p-value	Regression Equation
FQ→TR	H2a	0.477	0.192	0.000	TR=0.477*(FQ)+2.014
SQ→TR	H2b	0.566	0.345	0.000	TR=0.566*(SQ)+1.797
AT→ TR	H2c	0.492	0.253	0.000	TR=0.492*(AT)+1.867

Table 9. Regression: H2

4.6.3. Hypothesis 3

As an extension of simple linear regression analysis, a multiple linear regression was used to assess the association between customer perceived value and purchase intention regarding food quality, service quality and atmosphere. In order to do so, the total sample size (N=316) was used.

Hence, we are 95% confident that customer perceived value has a significant and positive impact on purchase intention because the p-value equals zero. Besides, this impact is positive because the coefficient is 0.510. In other words, for every unit increase in customer perceived value, purchase intention goes up by 0.510 units. Considering the value of R square, 20.8% of the variation of purchase intention can be explained by customer perceived value. The linearity of this relationship suggests that there is a significant and positive effect between customer perceived value and purchase intention towards the restaurant. H3 is accepted by this study.

Impacts	Hypothesis	B coefficient	R square	p-value	Regression Equation
VAL→PI	H3	0.510	0.208	0.000	PI=0.510*(VAL)+2.569

Table 10. Regression: H3

4.6.4. Hypothesis 4

This section intends to identify the impact of trust in the content on purchase intention. A multiple linear regression was performed and the total sample size (N=316) was used. We are 95% confident that trust in the content has a significant and positive impact on purchase intention because the p-value equals zero. Besides, this impact is positive because the coefficient is 0.450. In other words, for every unit increase in trust in the content, purchase intention goes up by 0.450 units. Considering the value of R square, 21.4% of the variation of purchase intention can be explained by trust in the content. H4 is accepted by this study.

Impacts	Hypothesis	B coefficient	R square	p-value	Regression Equation
TR→PI	H4	0.450	0.214	0.000	PI=0.450*(TR)+2.924

Table 11. Regression: H4

The following table presents the results of the hypotheses testing.

Hypotheses	Decision
<i>H1a. The food quality level, communicated in the posts, has a significant and positive impact on customer perceived value towards the restaurant.</i>	Accepted
<i>H1b. The service quality level, communicated in the posts, has a significant and positive impact on customer perceived value towards the restaurant.</i>	Accepted
<i>H1c. The atmosphere level, communicated in the posts, has a significant and positive impact on customer perceived value towards the restaurant.</i>	Accepted
<i>H2a. The food quality level, communicated in the posts, has a significant and positive impact on trust in the content towards the restaurant.</i>	Accepted
<i>H2b. The service quality level, communicated in the posts, has a significant and positive impact on trust in the content towards the restaurant.</i>	Accepted
<i>H2c. The atmosphere level, communicated in the posts, has a significant and positive impact on trust in the content towards the restaurant.</i>	Accepted
<i>H3. Customer perceived value regarding the restaurant has a significant and positive effect on purchase intention towards the restaurant.</i>	Accepted
<i>H4. Trust in the content regarding the restaurant has a significant and positive effect on purchase intention towards the restaurant.</i>	Accepted

Table 12. Hypotheses Testing

4.7. Comparison between the Types of Content

As a final analysis the author compares the different types of content – intending to evaluate which one is more efficient in driving trust, customer perceived value and purchase intention. To do so, we first separated the total sample for the analysis by creating a grouping variable called “Respond. Group” and gave the respondents of group “FQ” a value of “1”, the group of “SQ” a value of “2” and the group of “AT” a value of “3”.

4.7.1. Customer Perceived Value

For Levene’s test and based on comparison of medians, we have a non-statistically significant result ($p=0.810$), meaning that we have homogeneity of variances. There was a statistically significant difference between groups as demonstrated by one-way ANOVA ($F(2,313) = 3.559$, $p= 0.002$). A Bonferroni post hoc test showed that the service quality group shows a statistically significant difference with food quality ($p= 0.001$). There was no statistically significant difference between the food quality and atmosphere groups ($p= 0.234$) or between the service

quality and atmosphere groups ($p= 0.200$). This means that service quality is statistically more efficient in driving customer perceived value.

Test of Homogeneity of Variances				
VAL	Levene Statistic	df1	df2	Sig.
Based on Median	.211	2	313	0.810

Table 13. Test of Homogeneity of Variances (VAL)

ANOVA					
VAL	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11.807	2	5.903	6.398	0.002
Within Groups	288.812	313	0.923		
Total	300.619	315			

Table 14. One-Way ANOVA (VAL)

Multiple Comparisons				
Dependent Variable: VAL, Bonferroni				
(I)Respond. Group	(J)Respond. Group	Mean Difference	Std. Error	Sig.
1	2	-0.47658*	0.13323	0.001
	3	-0.23235	0.13133	0.234
2	1	0.47658*	0.13323	0.001
	3	0.24423	0.13263	0.200
3	1	0.23235	0.13133	0.234
	2	-0.24423	0.13263	0.200

Table 15. Multiple Comparison (VAL)

4.7.2. Trust in the Content

For Levene’s test and based on comparison of medians, we have a non-statistically significant result ($p=0.270$), meaning that we have homogeneity of variances. There was a statistically significant difference between groups as demonstrated by one-way ANOVA ($F(2,313) = 3.559$, $p= 0.30$). A Bonferroni post hoc test showed that the service quality group shows a statistically significant difference with food quality ($p= 0.037$). There was no statistically significant difference between the food quality and atmosphere groups ($p= 1.000$) or between the service quality and atmosphere groups ($p= 0.123$). This means that service quality is statistically more efficient in driving trust.

Test of Homogeneity of Variances				
TR	Levene Statistic	df1	df2	Sig.
Based on Median	1.314	2	313	0.270

Table 16. Test of Homogeneity of Variances (TR)

ANOVA					
TR	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.799	2	4.400	3.559	0.030
Within Groups	386.961	313	1.236		
Total	395.761	315			

Table 17. One-Way ANOVA (TR)

Multiple Comparisons				
Dependent Variable: TR, Bonferroni				
(I)Respond. Group	(J)Respond. Group	Mean Difference	Std. Error	Sig.
1	2	-0.38801*	0.15422	0.037
	3	-0.07325	0.15202	1.000
2	1	0.38801*	0.15422	0.037
	3	0.31476	0.15352	0.123
3	1	0.07325	0.15202	1.000
	2	-0.31476	0.15352	0.123

Table 18. Multiple Comparison (TR)

4.7.3. Purchase Intention

The significance value of the Levene statistic based on a comparison of medians is 0.905. This is not a statistically significant result, which means the requirement of homogeneity of variance has been met. The ANOVA test can be considered to be robust.

The value of F is 0.584 and therefore, it does not reach a statistically significance with a p-value of 0.558 (which is more than the 0.05 alpha level). This means there is no statistically significant difference between the means of the different levels of restaurant attributes in driving purchase intention.

Test of Homogeneity of Variances				
PI	Levene Statistic	df1	df2	Sig.
Based on Median	0.100	2	312	0.905

Table 19. Test of Homogeneity of Variances (PI)

ANOVA					
PI	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.397	2	0.699	0.584	0.558
Within Groups	373.391	312	1.197		
Total	374.788	314			

Table 20. One-Way ANOVA (PI)

Multiple Comparisons				
Dependent Variable: PI, Bonferroni				
(I)Respond. Group	(J)Respond. Group	Mean Difference	Std. Error	Sig.
1	2	0.01660	0.15209	1.000
	3	-0.13142	0.14993	1.000
2	1	-0.01660	0.15209	1.000
	3	-0.14801	0.15104	0.984
3	1	0.13142	0.14993	1.000
	2	0.14801	0.15104	0.984

Table 21. Multiple Comparison (PI)

Overall, the results presented that service quality shows only a statistically significant difference with food quality. There is no statistically significant difference with atmosphere. Therefore, we can conclude that the most efficient restaurant attribute in driving customer perceived value and trust in the content is service quality. It cannot be stated that service quality is statistically significant in driving purchase intention. For further details on the previous One-Way ANOVA presented, please consult Appendix 14-16.

5. Conclusion

This chapter presents the final conclusions on the topic about the effect of different types of online reviews on Instagram in the consumers' decision-making process in regard of restaurants. Furthermore, limitations are presented and suggestions for further research are proposed.

5.1. Main Findings and Conclusions

The purpose of this study was to propose a conceptual model that examines the relationships amongst food quality, service quality and restaurant atmosphere, customer perceived value, trust in the content and purchase intention in a restaurant context. The results reinforce previous research topics and theories related to the role of Instagram as an online marketing tool (Barreda et al., 2015; Colliander and Marder, 2018, Sheldon and Bryant, 2016). The combination of the chosen variables shows how restaurant attributes can affect trust in the content, perceived value and purchase intention.

The results show that all three attributes of restaurants are significant determinants of trust in the content and customer perceived value. Additionally, the current study reinforces the positive impact of trust and perceived value on purchase intention. Trust in the content of the three elements of restaurant attributes explained approximately 20.8% of variance. However, 21.4% of variance in perceived value were explained by independent variables. Finally, these findings imply that food quality, service quality and restaurant atmosphere are major antecedents of purchase intention through trust and perceived value. Additionally, a One-Way ANOVA was conducted in order to compare the different types of content. Interestingly, this study finds that service quality is the most efficient factor in driving customer perceived value and trust in the content.

5.2. Academic Contributions

From a theoretical standpoint, this study makes important contributions to the marketing literature, especially in the hospitality industry. None of the previous studies have examined the relationships between the mentioned restaurant attributes, perceived value, trust and purchase intention within an integrated model.

While the importance of brand image, brand awareness and social media has been widely discussed in the marketing literature, little research has been made about how the restaurant attributes elicit customer perceived value, trust in the content and purchase intention regarding the choice of a restaurant affected by online reviews on Instagram. This study provides a

comprehensive view in understanding the role of online reviews on Instagram in consumers' decision-making process in the restaurant context. Moreover, it contributes, to companies, especially restaurants, by identifying useful research that can help them to understand the power of Instagram as a new online review tool for consumers. Additionally, marketers may take advantage by understanding what motivates Instagram users have to share their experience with restaurants and why they rely on online review content. At the same time, Instagram itself might take advantage of the provided data in order to introduce a new feature within the application. This gives them the opportunity to grow as a social media platform.

5.3. Managerial Contributions

The most influential sales drivers for restaurants are guests who order food and beverages. If managers can inspire and provide them with an outstanding experience, many of these customers will tell their friends and family, and more importantly, share it on social media.

That means that restaurant managers should be active on Instagram and work on their social media performance. With photos and comments about their dishes, employees etc., managers can inform Instagram users about their offers.

It was shown in this study that food quality, service quality and restaurant atmosphere have a positive and significant influence on trust as well as customer perceived value and thereby, purchase intention. The quality of food serves as one of the greatest contributors in this context. Good food is viewed as an essential component of revisit intention in the restaurant industry (Namkung and Jang, 2007; Sulek and Hensley, 2004). To meet customers' expectations, a mixture of good taste, variety of menu, nutritional value, attractive food presentation and freshness is necessary. Since service quality is strongly related to the behavior of the restaurant staff, it can be concluded that the staff must be trained in order to provide a good service. According to HubSpot (2018), 59% of restaurant managers state that hiring, training and retaining staff is one of the biggest challenges they face. In other words, restaurant managers can use human resource management practices, such as trainings, reward systems etc., to improve employee performance. In order to retain high-performing staff members, a thorough onboarding plan and a consistent employee communication should be implemented in a restaurant manager's strategy (Hubspot, 2018).

Considering the atmosphere of a restaurant, companies can review Instagram content and use the feedback of customers to redesign the restaurant. Finally, the menu, offers, plates, glasses, the lighting, art on the walls as well as tables and chairs should reflect the brand of a restaurant.

Big gastronomy companies are aware of how important the brand message is and show constant design in all locations. Restaurant managers must carefully observe photos and comments on Instagram in order to build customers' favorable image. Moreover, restaurateurs should plan, build, change and control a restaurant's physical surroundings to create a distinctive image that differentiate it from its competitors on Instagram.

The possibility of sharing pictures and comments of meals, service staff, physical environment etc. has the potential to make Instagram the go-to social network for restaurant reviews (Hubspot, 2018). In addition, Instagram gives restaurants the opportunity to collect customer feedback, share positive comments publicly, capitalize on trend themes and get guests excited about the restaurant before they even enter the venue. In general, managers should focus on the lifetime value of their customers. In order to do so, it is important to build their own database of customer contact information. Moreover, by making the customers feel like an important part of the restaurant, they can create special programs and make offers that will make a certain restaurant to their regular spot. Online marketing on Instagram helps restaurateurs to get in touch with their guests and to stay in contact with both current and future visitors. In particular, restaurant managers should market the restaurant attributes (food quality, service quality and atmosphere) in order to build a favorable image of their restaurant, which in turn affects customer perceived value, trust in the content and thereby, purchase intention.

5.4. Limitations and Further Research Suggestions

There are some research limitations that should be taken into consideration.

A random sampling approach was used to gather data from consumer who use online reviews and Instagram. The sample used for the analysis of the hypotheses constituted one of the main limitations of this study. A total of 316 answers were valid, therefore the sample size is a limitation.

The generalization of the results needs to be carefully conducted. For example, the findings should be interpreted with caution when applied to different types of restaurants. Since the respondent was randomly assigned to a group of either food quality, service quality or restaurant atmosphere, he or she could only see specific content of one of these types. However, the restaurant chosen for the survey is considered to be modern and trendy. The future studies may develop this research by comparing the relative importance of the restaurant attributes between different types of restaurants (e.g. traditional, fine dining etc.). More types of restaurants may be included in future studies to increase the reliability of the research.

Considering the food quality, participants were only able to see photo content of breakfast. Therefore, photos of other meals could have been presented. In addition, the quality of food and service as well as atmosphere was measured by items (Jang and Namkung, 2009; Namkung and Jang, 2007; Ryu et al., 2012; Brady and Cronin, 2001; Parasuraman et al., 1988; Kivela, 1997; Law et al., 2008; Ryu and Jang, 2007; Ryu and (Shawn) Jang, 2008;) that are widely accepted and used in previous research. Further research is required in order to develop survey items to assess restaurant attributes, such as food quality, service quality and atmosphere, to provide a better understanding of customers perceptions of dining experiences on Instagram. Additional research may need to incorporate mediating variables into the proposed conceptual model. To extend the presented findings, it could be useful to introduce incorporating situational or personal characteristics (e.g. first visitors, frequent visitors) as moderating variables into the conceptual model. Therefore, understanding personal and situational differences is another approach for further research.

In the future, research could focus on different effects on consumers caused by eWOM, as well as different features on Instagram (e.g. Instagram stories, videos). The consideration of other types of reviews, such as video reviews, could also be of interest to include. To enlarge the field of analysis, including different variables, such as credibility, loyalty etc., can also be introduced in further research.

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Appendices

Appendix 1. Survey (English version)

Q1 Dear Participant,

Thank you for taking part in this survey!

This survey was developed for the purpose of my master thesis in the program “MSc in Management with Specialization in Strategic Marketing” at Católica School of Business and Economics in Lisbon, Portugal.

The questionnaire takes you only 6 minutes to complete. All answers you provide will be kept in the strictest confidentiality and will be used only for this academic purpose. By answering this survey, you can win a €30, - Amazon voucher.

If you want to be the lucky winner, please enter your email address at the end of the survey.

Thank you very much for your time and participation!

Q2 How often do you use online reviews when deciding for a restaurant? (e.g. TripAdvisor, Zomato, Facebook, Google Reviews etc.)

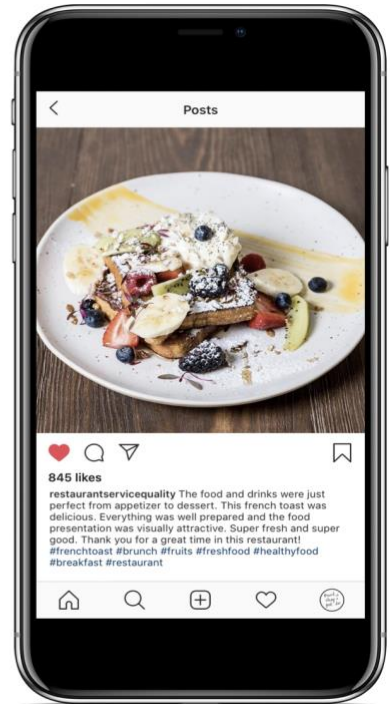
- (1) Never
- (2)
- (3)
- (4) Sometimes
- (5)
- (6)
- (7) Always

Q3 Do you use Instagram?

- (1) Yes
- (2) No

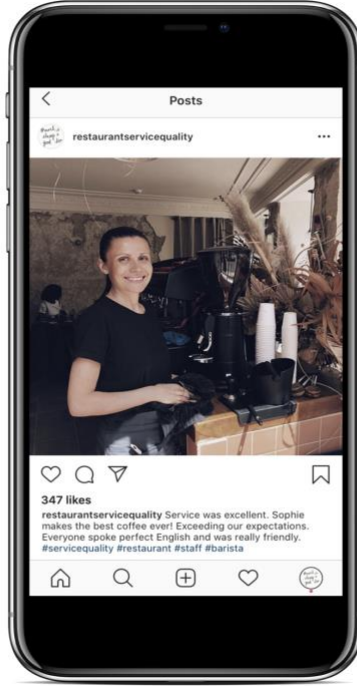
Q4 On Instagram, some users share their restaurant experiences by posting pictures and writing short comments.

Please have a look at the Instagram profile of “restaurantervicequality”, an Instagram user who is frequently posting pictures and reviews of restaurants around the world. Imagine you would see this profile on the screen of your mobile device regarding a restaurant near you. Please check out the photos and carefully read the comments.



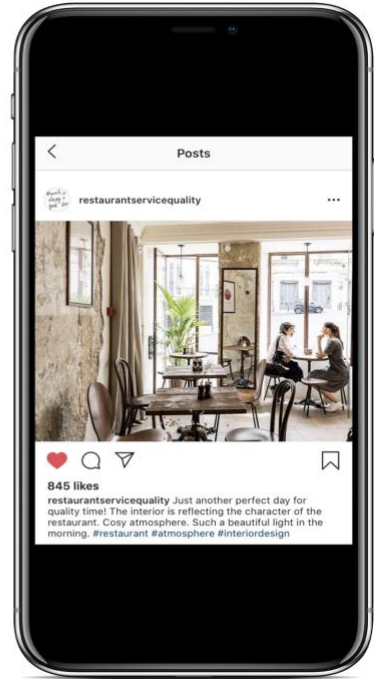
Q5 Now that you saw the Instagram posts, we would like to ask for your opinion. Please indicate how strongly you agree or disagree with the following statements. (1=Completely disagree, 7=Completely agree)

	(1) completely disagree	(2)	(3)	(4) neither agree or disagree	(5)	(6)	(7) completely agree
(1) The food is delicious.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) I think the food is healthy.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) The restaurant offers lots of menu items.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) I think the restaurant offers fresh food.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(5) The food presentation is visually appealing to me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Q6 Now that you saw the Instagram posts, we would like to ask for your opinion. Please indicate how strongly you agree or disagree with the following statements. (1=Completely disagree, 7=Completely agree)

	(1) completely disagree	(2)	(3)	(4) neither agree or disagree	(5)	(6)	(7) completely agree
(1) I think that I will receive the food as I order it.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) Employees try to minimize my waiting time.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) The service staff pays attention.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) The service staff is welcoming and friendly.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(5) I would feel comfortable in the restaurant.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Q7 Now that you saw the Instagram posts, we would like to ask for your opinion. Please indicate how strongly you agree or disagree with the following statements. (1=Completely disagree, 7=Completely agree)

	(1) completely disagree	(2)	(3)	(4) neither agree or disagree	(5)	(6)	(7) completely agree
(1) The style of the restaurant fits me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) The interior is appealing to me.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) I think that the lighting of the restaurant creates a cosy atmosphere.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) The furnishing is attracting me to visit the restaurant.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q8 What do you think after seeing the posts on Instagram? Please indicate how strongly you agree or disagree with the following statements. (1=Completely disagree, 7=Completely agree)

	(1) completely disagree	(2)	(3)	(4) neither agree or disagree	(5)	(6)	(7) completely agree
(1) What the user says about the restaurant is true.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) I have a good impression about the experience of the previous customer.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) I believe that the user mostly says the truth about the restaurant.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) I refer to Instagram, when family and friends ask me about restaurants.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(5) The user's content is reliable.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q9 What do you think after seeing the posts on Instagram? Please indicate how strongly you agree or disagree with the following statements. (1=Completely disagree, 7=Completely agree)

	(1) completely disagree	(2)	(3)	(4) neither agree or disagree	(5)	(6)	(7) completely agree
(1) I think that the money I am going to spend in the restaurant will match my expectations about the food quality.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) I think that the money I am going to spend in the restaurant will match my expectations about the service quality.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) I think that the money I am going to spend in the restaurant will match my expectations about the atmosphere.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) I think the restaurant offers good value for the money.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(5) The overall expected value of visiting the restaurant is high.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q10 What do you think after seeing the posts on Instagram? Please indicate how strongly you agree or disagree with the following statements. (1=Completely disagree, 7=Completely agree)

	(1) completely disagree	(2)	(3)	(4) neither agree or disagree	(5)	(6)	(7) completely agree
(1) I am likely to visit the restaurant.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) I will recommend this restaurant to my friends and family.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) I would consider visiting the restaurant.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) I have no intention to visit this restaurant.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q11 Please state your gender.

(1) Female

- (2) Male
- (3) Other

Q12 Please select your age category.

- (1) Under 18 years old
- (2) 18 – 24
- (3) 25 – 34
- (4) 35 – 44
- (5) 45 – 54
- (6) 55 – 64
- (7) 65 years or older

Q13 Current occupation:

- (1) Unemployed
- (2) Employed
- (3) Self-employed
- (4) Student (High School)
- (5) Student (Bachelor, Master, Other)
- (6) Retired

Q14 Please indicate your monthly net income category.

- (1) €0 – 499
- (2) €500 – 999
- (3) €1000 – 1499
- (4) €1500 – 1999
- (5) €2000 – 2999
- (6) €3000 – 3999
- (7) More than €4000
- (8) Prefer not to answer

Q15 Please indicate your nationality.

▼ Afghanistan (1) ... Zimbabwe (1357)

Q16 You arrived at the end of the study. Thank you for your time!

Do you want to participate in the raffle?

- (1) Yes
- (2) No

Q17 Please insert your email address below:

Q1 Liebe/r TeilnehmerIn,

Vielen Dank für Ihre Teilnahme an dieser Umfrage!

Diese Umfrage wurde für den Zweck meiner Masterarbeit im Programm "MSc in Management mit Spezialisierung auf strategisches Marketing" an der Católica School of Business und Economics in Lissabon, Portugal entwickelt.

Der Fragebogen dauert nur 6 Minuten. Alle von Ihnen angegebenen Antworten werden streng vertraulich behandelt und nur für diesen akademischen Zweck verwendet.

Wenn Sie diese Umfrage beantworten, können Sie einen Amazon-Gutschein im Wert von € 30, - gewinnen. Falls Sie der glückliche Gewinner sein möchten, geben Sie bitte Ihre E-Mail-Adresse am Ende der Umfrage an.

Vielen Dank für Ihre Zeit und Teilnahme!

Q2 Wie oft verwenden Sie Bewertungen, wenn Sie sich für ein Restaurant entscheiden? (TripAdvisor, Zomato, Facebook, Google Reviews usw.)

- (1) Nie
- (2)
- (3)
- (4) Manchmal
- (5)
- (6)
- (7) Immer

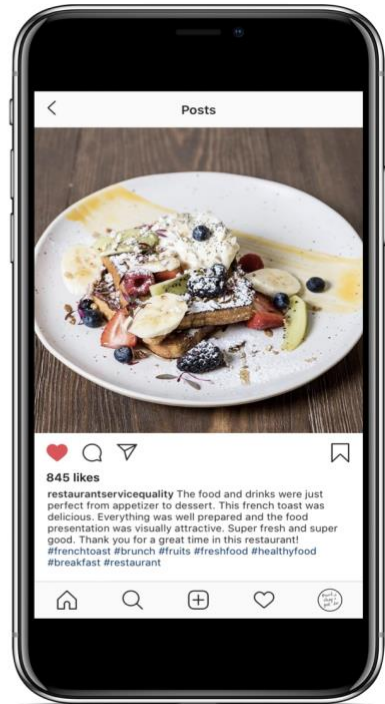
Q3 Verwenden Sie Instagram?

- (1) Ja
- (2) Nein

Q4 Auf Instagram teilen viele User Ihre Erfahrungen mit Restaurants, indem sie Fotos und Kommentare posten. Bitte schauen Sie sich das Instagram-Profil von „restaurantSERVICEQUALITY“ an. Auf diesem Profil sind häufig Fotos und Kommentare von Restaurants zu sehen.

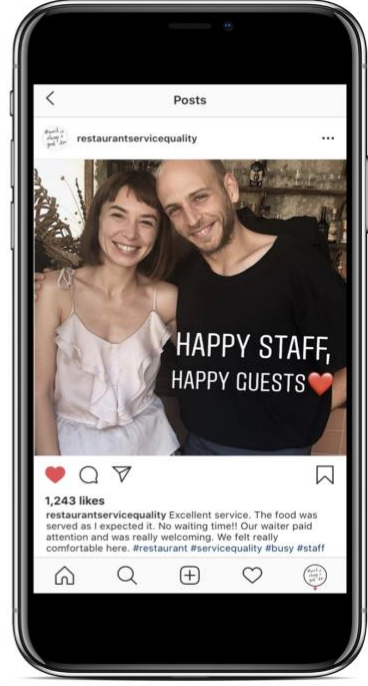
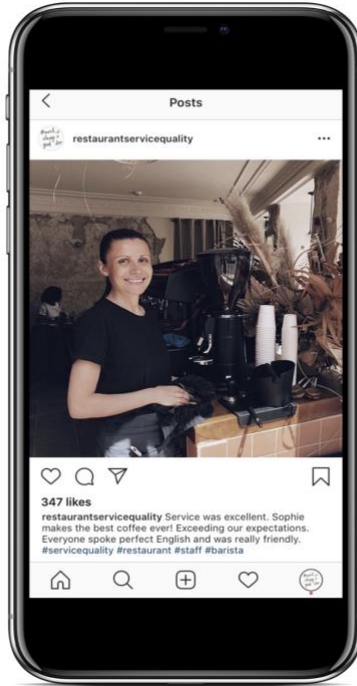
Stellen Sie sich nun vor, dass Sie Posts von einem Restaurant in Ihrer Nähe, auf Ihrem Bildschirm sehen würden.

Bitte sehen Sie sich die Fotos an und lesen Sie aufmerksam die Kommentare.



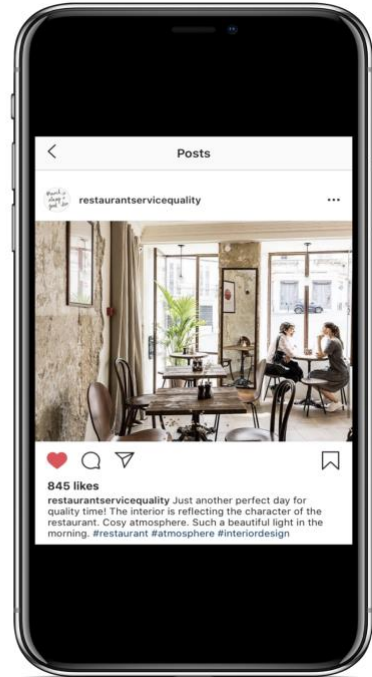
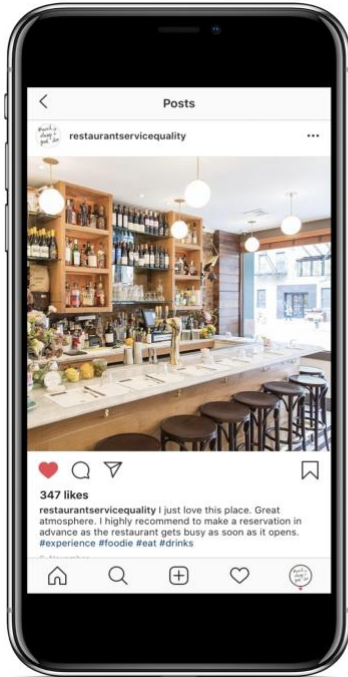
Q5 Nachdem Sie die Posts auf Instagram gesehen haben, möchten wir Sie um Ihre Meinung bitten. Bitte geben Sie an, wie stark Sie den folgenden Aussagen zustimmen oder nicht zustimmen. (1= trifft nicht zu, 7= trifft zu)

	(1) trifft nicht zu	(2)	(3)	(4) neutral	(5)	(6)	(7) trifft zu
(1) Das Gericht ist köstlich.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) Ich denke, dass das Gericht gesund ist.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) Das Restaurant bietet viele verschiedene Gerichte an.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) Ich glaube, dass das Restaurant frisches Essen anbietet.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(5) Die Präsentation des Gerichts ist für mich optisch ansprechend.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Q6 Nachdem Sie die Posts auf Instagram gesehen haben, möchten wir Sie um Ihre Meinung bitten. Bitte geben Sie an, wie stark Sie den folgenden Aussagen zustimmen oder nicht zustimmen. (1= trifft nicht zu, 7= trifft zu)

	(1) trifft nicht zu	(2)	(3)	(4) neutral	(5)	(6)	(7) trifft zu
(1) Ich glaube, dass ich das Gericht so bekomme, wie ich es bestellt habe.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) Die Mitarbeiter versuchen, meine Wartezeit zu minimieren.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) Das Service-Personal ist aufmerksam.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) Das Service-Personal ist zuvorkommend und freundlich.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(5) Ich würde mich in diesem Restaurant wohl fühlen.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>



Q7 Nachdem Sie die Posts auf Instagram gesehen haben, möchten wir Sie um Ihre Meinung bitten. Bitte geben Sie an, wie stark Sie den folgenden Aussagen zustimmen oder nicht zustimmen. (1= trifft nicht zu, 7= trifft zu)

	(1) trifft nicht zu	(2)	(3)	(4) neutral	(5)	(6)	(7) trifft zu
(1) Der Stil des Restaurants passt zu mir.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) Die Einrichtung gefällt mir.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) Ich denke, dass die Beleuchtung des Restaurants eine angenehme Atmosphäre schafft.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) Die Einrichtung motiviert mich in dieses Restaurant zu gehen,	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q8 Was denken Sie, nachdem Sie die Beiträge auf Instagram gesehen haben? Bitte geben Sie an, wie stark Sie den folgenden Aussagen zustimmen oder nicht zustimmen. (1=trifft nicht zu, 7=trifft zu)

	(1) trifft nicht zu	(2)	(3)	(4) neutral	(5)	(6)	(7) trifft zu
(1) Was der User über das Restaurant sagt, ist wahr.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) Ich bekomme einen guten Eindruck über die Erfahrungen, die andere Besucher in diesem Restaurant gemacht haben.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) Ich glaube, dass der User meistens die Wahrheit über das Restaurant sagt.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) Ich beziehe mich auf Instagram, wenn Familie und Freunde mich nach Restaurant-Empfehlungen fragen,	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(5) Die Posts des Users sind zuverlässig.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q9 Was denken Sie, nachdem Sie die Beiträge auf Instagram gesehen haben? Bitte geben Sie an, wie stark Sie den folgenden Aussagen zustimmen oder nicht zustimmen. (1=trifft nicht zu, 7=trifft zu)

	(1) trifft nicht zu	(2)	(3)	(4) neutral	(5)	(6)	(7) trifft zu
(1) Ich denke, dass das Geld, das ich im Restaurant ausgeben werde, meine Erwartungen an die Qualität des Essens erfüllen wird.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) Ich denke, dass das Geld, das ich im Restaurant ausgeben werde, meine Erwartungen an die Servicequalität erfüllen wird.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) Ich denke, dass das Geld, das ich im Restaurant ausgeben werde, meine Erwartungen an die Atmosphäre erfüllen wird.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) Ich denke, dass das Restaurant ein gutes Preis-Leistungs-Verhältnis bietet.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(5) Mein Gesamteindruck von diesem Restaurant ist sehr hoch.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q10 Was denken Sie, nachdem Sie die Beiträge auf Instagram gesehen haben? Bitte geben Sie an, wie stark Sie den folgenden Aussagen zustimmen oder nicht zustimmen. (1=trifft nicht zu, 7=trifft zu)

	(1) trifft nicht zu	(2)	(3)	(4) neutral	(5)	(6)	(7) trifft zu
(1) Ich werde wahrscheinlich in das Restaurant gehen.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(2) Ich werde dieses Restaurant meinen Freunden und meiner Familie empfehlen.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(3) Ich würde in Betracht ziehen, in dieses Restaurant zu gehen.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
(4) Ich habe nicht die Absicht, in dieses Restaurant zu gehen.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Q11 Geschlecht

- (1) Weiblich
- (2) Männlich
- (3) Anders

Q12 Alter

- (1) Jünger als 18
- (2) 18 – 24
- (3) 25 – 34
- (4) 35 – 44
- (5) 45 – 54
- (6) 55 – 64
- (7) Älter als 64

Q13 Beruf

- (1) Arbeitslos
- (2) Berufstätig
- (3) Selbstständig
- (4) Student/In (Gymnasium, Oberstufe, Mittelschule)
- (5) Student/In (Bachelor, Master etc.)
- (6) Im Ruhestand

Q14 Monatliches Einkommen (netto)

- (1) €0 – 499
- (2) €500 – 999
- (3) €1000 – 1499
- (4) €1500 – 1999
- (5) €2000 – 2999
- (6) €3000 – 3999
- (7) Mehr als €4000
- (8) Ich möchte keine Angaben dazu geben.

Q15 Woher kommen Sie?

▼ Afghanistan (1) ... Zimbabwe (1357)

Q16 Sie sind am Ende der Umfrage angekommen. Vielen Dank für Ihre Zeit! Möchten Sie an der Verlosung teilnehmen?

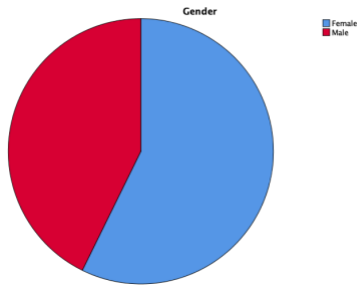
- (1) Ja
- (2) Nein

Q17 Bitte geben Sie Ihre Email Adresse ein:

Appendix 3. Demographics

Gender

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Female	181	57.3	57.3	57.3
Male	135	42.7	42.7	100.0
Total	316	100.0	100.0	

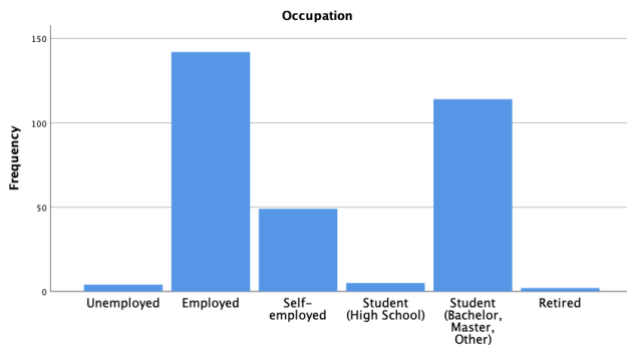


Age

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Under 18 years old	1	.3	.3	.3
18 – 24	64	20.3	20.3	20.6
25 – 34	211	66.8	66.8	87.3
35 – 44	27	8.5	8.5	95.9
45 – 54	7	2.2	2.2	98.1
55 – 64	4	1.3	1.3	99.4
65 years or older	2	.6	.6	100.0
Total	316	100.0	100.0	

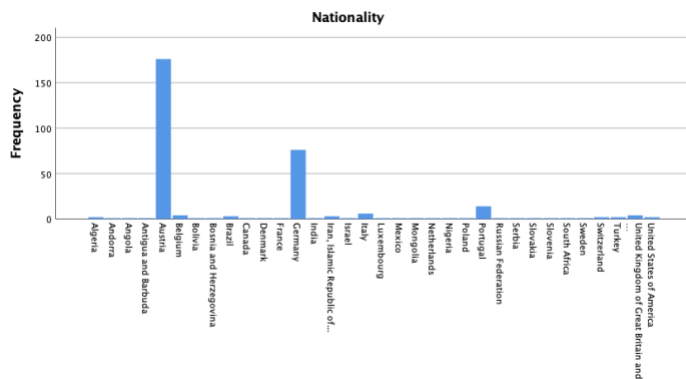
Occupation

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Unemployed	4	1.3	1.3	1.3
Employed	142	44.9	44.9	46.2
Self-employed	49	15.5	15.5	61.7
Student (High School)	5	1.6	1.6	63.3
Student (Bachelor, Master, Other)	114	36.1	36.1	99.4
Retired	2	.6	.6	100.0
Total	316	100.0	100.0	



Income

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid €0 – 499	30	9.5	9.5	9.5
€500 – 999	36	11.4	11.4	20.9
€1000 – 1499	40	12.7	12.7	33.5
€1500 – 1999	52	16.5	16.5	50.0
€2000 – 2999	70	22.2	22.2	72.2
€3000 – 3999	26	8.2	8.2	80.4
More than €4000	20	6.3	6.3	86.7
Prefer not to answer	42	13.3	13.3	100.0
Total	316	100.0	100.0	

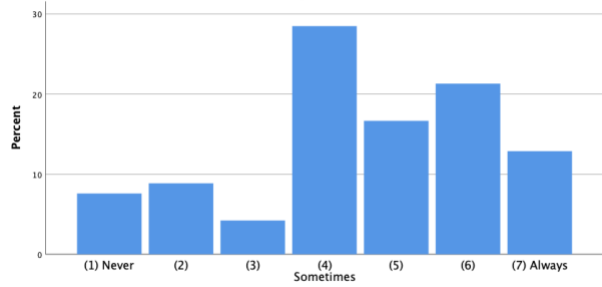


Appendix 4. Description of the Sample

How often do you use online reviews when deciding for a restaurant? (e.g. TripAdvisor, Zomato, Facebook, Google Reviews etc.)

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid (1) Never	36	7.6	7.6	7.6
(2)	42	8.9	8.9	16.5
(3)	20	4.2	4.2	20.7
(4) Sometimes	135	28.5	28.5	49.2
(5)	79	16.7	16.7	65.8
(6)	101	21.3	21.3	87.1
(7) Always	61	12.9	12.9	100.0
Total	474	100.0	100.0	

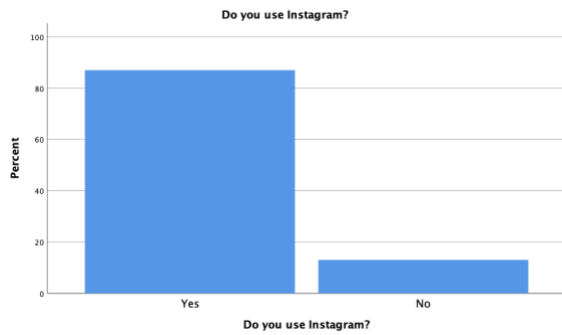
How often do you use online reviews when deciding for a restaurant? (e.g. TripAdvisor, Zomato, Facebook, Google Reviews etc.)



How often do you use online reviews when deciding for a restaurant? (e.g. TripAdvisor, Zomato, Facebook, Google Reviews etc.)

Do you use Instagram?

	Frequency	Percent	Valid Percent	Cumulative Percent
Valid Yes	380	87.0	87.0	87.0
No	57	13.0	13.0	100.0
Total	437	100.0	100.0	



Appendix 5. Cronbach's Alpha

FQ:

Reliability Statistics

Cronbach's Alpha	N of Items
.859	5

SQ:

Reliability Statistics

Cronbach's Alpha	N of Items
.932	5

AT:

Reliability Statistics

Cronbach's Alpha	N of Items
.855	4

TR:

Reliability Statistics

Cronbach's Alpha	N of Items
.877	5

VAL:

Reliability Statistics

Cronbach's Alpha	N of Items
.868	5

PI:

Reliability Statistics

Cronbach's Alpha	N of Items
.837	4

Appendix 6. Principal Component Analysis (PCA)

KMO and Bartlett's Test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy.		.885
Bartlett's Test of Sphericity	Approx. Chi-Square	6.313E3
	df	378
	Sig.	.000

Rotated Component Matrix^a

	Component					
	1	2	3	4	5	6
FQ1-The food is delicious.				.866		
FQ2-I think the food is healthy.				.615		
FQ3-The restaurant offers lots of menu items.				.684		
FQ4-I think the restaurant offers fresh food.				.879		
FQ5-The food presentation is visually appealing to me.				.883		
SQ1-I think that I will receive the food as I order it.	.819					
SQ2-Employees try to minimize my waiting time.	.833					
SQ3-The service staff pays attention.	.912					
SQ4-The service staff is welcoming and friendly.	.886					
SQ5-I would feel comfortable in the restaurant.	.850					
A1-The style of the restaurant fits me.					.454	
A2-The interior is appealing to me.					.929	
A3-I think that the lighting of the restaurant creates a cozy atmosphere.					.922	
A4-The furnishing is attracting me to visit the restaurant.					.941	
T1-What the user says about the restaurant is true.			.687			
T2-I have a good impression about the experience of the previous customer.			.745			
T3-I believe that the user mostly says the truth about the restaurant.			.820			
T4-I refer to Instagram, when family and friends ask me about restaurants.		.304	.627		.327	
T5-The user's content is reliable.		.333	.759			
VAL1-I think that the money I am going to spend in the restaurant will match my expectations about the food quality.		.782				
VAL2-I think that the money I am going to spend in the restaurant will match my expectations about the service quality.		.769				
VAL3-I think that the money I am going to spend in the restaurant will match my expectations about the atmosphere.		.734				
VAL4-I think the restaurant offers good value for the money.		.697				
VAL5-The overall expected value of visiting the restaurant is high.		.697				
PI1-I am likely to visit the restaurant.						.798
PI2-I will recommend this restaurant to my friends and family.			.313		.346	.592
PI3-I would consider visiting the restaurant.						.824
PI4-I have no intention to visit this restaurant.						.807

Extraction Method: Principal Component Analysis.
Rotation Method: Varimax with Kaiser Normalization.

a. Rotation converged in 6 iterations.

Appendix 7. Normality Test

Descriptive Statistics

	N	Mean	Std. Deviation	Skewness		Kurtosis	
	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic	Std. Error
FQ	316	4.3911	.82218	1.021	.137	2.283	.273
SQ	316	4.4373	.88055	1.478	.137	1.801	.273
AT	316	4.0348	.82974	.062	.137	3.343	.273
TR	316	4.7446	1.12089	-.291	.137	.017	.273
VAL	316	4.8861	.97691	-.103	.137	.215	.273
PI	315	5.0587	1.09252	-.541	.137	.353	.274
Valid N (listwise)	315						

Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
FQ	.383	315	.000	.701	315	.000
SQ	.402	315	.000	.658	315	.000
AT	.349	315	.000	.744	315	.000
TR	.056	315	.019	.989	315	.015
VAL	.078	315	.000	.985	315	.002
PI	.095	315	.000	.970	315	.000

a. Lilliefors Significance

Appendix 8. Pearson's Correlation

Correlations

		FQ	SQ	AT	TR	VAL	PI
FQ	Pearson Correlation	1					
	Sig. (2-tailed)						
	N	316					
SQ	Pearson Correlation	-.248**	1				
	Sig. (2-tailed)	.000					
	N	316	316				
AT	Pearson Correlation	-.018	-.034	1			
	Sig. (2-tailed)	.748	.548				
	N	316	316	316			
TR	Pearson Correlation	.114*	.317**	.345**	1		
	Sig. (2-tailed)	.042	.000	.000			
	N	316	316	316	316		
VAL	Pearson Correlation	.045	.360**	.268**	.617**	1	
	Sig. (2-tailed)	.430	.000	.000	.000		
	N	316	316	316	316	316	
PI	Pearson Correlation	.115*	.133*	.349**	.462**	.456**	1
	Sig. (2-tailed)	.042	.018	.000	.000	.000	
	N	315	315	315	315	315	315

** . Correlation is significant at the 0.01 level (2-tailed).

* . Correlation is significant at the 0.05 level (2-tailed).

Appendix 9. Linear Regression (FQ)

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.383 _a	.147	.138	.93060

a. Predictors: (Constant), FQ

Coefficients

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.014	.508		3.962	.000
	FQ	.477	.096	.438	4.963	.000

a. Dependent Variable: T

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	2.705	.469		5.763	.000
FQ	.375	.089	.383	4.228	.000

a. Dependent Variable: VAL

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.591 ^a	.349	.343	.78525

a. Predictors: (Constant), T; b. Dependent Variable: PI

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	2.171	.318		6.831	.000
T	.513	.069	.591	7.473	.000

a. Dependent Variable: PI

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.386 ^a	.149	.141	.89803

a. Predictors: (Constant), VAL; b. Dependent Variable: PI

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	2.740	.416		6.588	.000
VAL	.373	.087	.386	4.269	.000

a. Dependent Variable: PI

Appendix 10. Linear Regression (SQ)

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.587 ^a	.345	.338	.84557

a. Predictors: (Constant), SQ

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	1.797	.426		4.217	.000

	SQ	.566	.078	.587	7.257	.000
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a. Dependent Variable: T

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.644 _a	.415	.409	.70529

a. Predictors: (Constant), SQ

Coefficients_a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.195	.355		6.175	.000
	SQ	.548	.065	.644	8.420	.000

a. Dependent Variable: VAL

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.546 _a	.298	.291	.68046

a. Predictors: (Constant), T

Coefficients_a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.408	.322		7.486	.000
	T	.424	.065	.546	6.510	.000

a. Dependent Variable: PI

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.464 _a	.215	.207	.71928

a. Predictors: (Constant), VAL

Coefficients_a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.360	.406		5.807	.000
	VAL	.409	.078	.464	5.237	.000

a. Dependent Variable: PI

Appendix 11. Linear Regression (AT)

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
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1	.555 _a	.308	.302	.80086
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a. Predictors: (Constant), A

Coefficients_a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	2.419	.367		6.588	.000
A	.444	.065	.555	6.870	.000

a. Dependent Variable: VAL

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.503 _a	.253	.246	1.01572

a. Predictors: (Constant), A

Coefficients_a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	1.867	.466		4.010	.000
A	.492	.082	.503	5.996	.000

a. Dependent Variable: T

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.653 _a	.426	.421	.67373

a. Predictors: (Constant), T

Coefficients_a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	2.288	.264		8.665	.000
T	.494	.056	.653	8.870	.000

a. Dependent Variable: PI

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.645 _a	.416	.410	.67973

a. Predictors: (Constant), VAL

Coefficients_a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
	B	Std. Error	Beta		
1 (Constant)	1.648	.341		4.830	.000
VAL	.596	.069	.645	8.685	.000

a. Dependent Variable: PI

Appendix 12. Multiple Linear Regression: TR on PI

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Durbin-Watson
1	.462 ^a	.214	.211	.97029	2.121

a. Predictors: (Constant), Trust; b. Dependent Variable: PI

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	80.112	1	80.112	85.094	.000 ^b
	Residual	294.676	313	.941		
	Total	374.788	314			

a. Dependent Variable: PI; b. Predictors: (Constant), Trust

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients Beta	t	Sig.	Collinearity Statistics	
		B	Std. Error				Tolerance	VIF
1	(Constant)	2.924	.238		12.295	.000		
	Trust	.450	.049	.462	9.225	.000	1.000	1.000

a. Dependent Variable: PI

Appendix 13. Multiple Linear Regression: VAL on PI

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.456 ^a	.208	.205	.97385

a. Predictors: (Constant), VAL

ANOVA^b

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	77.946	1	77.946	82.188	.000 ^a
	Residual	296.843	313	.948		
	Total	374.788	314			

a. Predictors: (Constant), VAL; b. Dependent Var.: PI

Coefficients^a

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.	Collinearity Statistics	
	B	Std. Error	Beta			Tolerance	VIF
1 (Constant)	2.569	.280		9.171	.000		
VAL	.510	.056	.456	9.066	.000	1.000	1.000

a. Dependent Variable: PI

Appendix 14. One-Way ANOVA: VAL

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
V	Based on Mean	.221	2	313	.802
A	Based on Median	.211	2	313	.810
L	Based on Median and with adjusted df	.211	2	311.052	.810
	Based on trimmed mean	.227	2	313	.797

ANOVA

VAL

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	11.807	2	5.903	6.398	.002
Within Groups	288.812	313	.923		
Total	300.619	315			

Multiple Comparisons

Dependent Variable: VAL

Bonferroni

(I) Respond.Group	(J) Respond.Group	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval	
					Lower Bound	Upper Bound
1	2	-.47658*	.13323	.001	-.7973	-.1559
	3	-.23235	.13133	.234	-.5485	.0838
2	1	.47658*	.13323	.001	.1559	.7973
	3	.24423	.13263	.200	-.0750	.5634
3	1	.23235	.13133	.234	-.0838	.5485

2	-.24423	.13263	.20 0	-.5634	.0750
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*. The mean difference is significant at the 0.05 level.

Appendix 15. One-Way ANOVA: TR

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
Trust	Based on Mean	1.352	2	313	.260
	Based on Median	1.314	2	313	.270
	Based on Median and with adjusted df	1.314	2	309.053	.270
	Based on trimmed mean	1.352	2	313	.260

ANOVA

Trust

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	8.799	2	4.400	3.559	.030
Within Groups	386.961	313	1.236		
Total	395.761	315			

Multiple Comparisons

Dependent Variable: Trust

Bonferroni

(I) Respond.Gro up	(J) Respond.Gro up	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound Upper Bound	
1	2	-.38801*	.15422	.037	-.7592	-.0168
	3	-.07325	.15202	1.00 0	-.4392	.2926
2	1	.38801*	.15422	.037	.0168	.7592
	3	.31476	.15352	.123	-.0547	.6843
3	1	.07325	.15202	1.00 0	-.2926	.4392
	2	-.31476	.15352	.123	-.6843	.0547

*. The mean difference is significant at the 0.05 level.

Appendix 16. One-Way ANOVA: PI

Test of Homogeneity of Variances

		Levene Statistic	df1	df2	Sig.
PI	Based on Mean	.076	2	312	.927
	Based on Median	.100	2	312	.905

Based on Median and with adjusted df	.100	2	308.957	.905
Based on trimmed mean	.097	2	312	.908

ANOVA

	Sum of Squares	df	Mean Square	F	Sig.
Between Groups	1.397	2	.699	.584	.558
Within Groups	373.391	312	1.197		
Total	374.788	314			

Multiple Comparisons

Dependent Variable: PI

Bonferroni

(I) Respond.Gro up	(J) Respond.Gro up	Mean Difference (I-J)	Std. Error	Sig.	95% Confidence Interval Lower Bound Upper Bound	
1	2	.01660	.15209	1.000	-.3495	.3827
	3	-.13142	.14993	1.000	-.4923	.2295
2	1	-.01660	.15209	1.000	-.3827	.3495
	3	-.14801	.15104	.984	-.5116	.2155
3	1	.13142	.14993	1.000	-.2295	.4923
	2	.14801	.15104	.984	-.2155	.5116