

Citation

Ravichandran, S., Osakwe, C.N., Elgammal, I.M.Y., Abbasi, G.A. and Cheah, J.-H. (2024), "Feeding trust: exploring key drivers, moderators and consequences related to food app usage", *Journal of Services Marketing*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JSM-11-2023-0437>

Important Info: This is the accepted version of the manuscript before publication.



Feeding trust: Exploring key drivers, moderators, and consequences related to food app usage

Journal:	<i>Journal of Services Marketing</i>
Manuscript ID	JSM-11-2023-0437.R4
Manuscript Type:	Article
Keywords:	behavioural insight, Commitment, CRM, e-commerce, Hospitality, Trust

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3 **Feeding trust: Exploring key drivers, moderators, and consequences related to food app**
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5 **usage**
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8 **Structured Abstract**
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10 **Purpose:** An extended involvement-commitment and the trust commitment model are used
11 to examine post-consumption decisions related to food delivery app use.
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14 **Methodology:** A self-administered online survey was used to collect data from food delivery
15 app users in the U.S.
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18 **Findings:** Findings validate a favorable role of perceived app security and menu description
19 on trust in app recommendations. Trust was found to be positively related to involvement,
20 commitment, and willingness to provide feedback. The positive moderating role of perceived
21 convenience and rewards and incentives were also confirmed in relation to consumers' trust
22 in app recommendations, and involvement and commitment.
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25 **Originality:** A key contribution of this study includes the development of a comprehensive
26 model to understand post-consumption decisions related to the usage of food delivery apps.
27 This study is also the first to unveil the antecedent and moderating factors related to food
28 delivery app users' willingness to provide feedback, share personal data, and to pay more.
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31 **Keywords:** Behavioral insight, commitment, CRM, e-commerce, hospitality, trust
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1. Introduction

It is forecasted that the market size of online food delivery services in the US, facilitated by mobile apps, may surpass US\$30bn by 2026 (Expert Market Research, n.d.). To capitalize on these favourable market trends, providers of online food delivery services must cultivate and sustain trusting relationships with their customers. Such relationships potentially empower customers to engage cooperatively with service providers, unlocking significant potential (see Das and Ramalingam, 2023; Fang and Li, 2020; Su et al., 2023).

Research on food delivery app usage has gained momentum in recent years (Agarwal and Sahu, 2022; Al Amin et al., 2021; Anbumathi et al., 2023; Lee et al., 2022; Negi et al., 2023; Shah et al., 2021; Tsai et al., 2023; Yao and Li, 2024). Many of these studies (see Abed, 2023; Shankar et al., 2022; Wen et al., 2022) primarily focus on understanding individuals' intentions to (re)use the app/service, which is essential for understanding early user responses.

However, the existing literature and the broader service research domain lack a comprehensive understanding of how practitioners can effectively build and sustain trust, particularly concerning food delivery apps. More so, the potential implications of trust, beyond established factors like purchase and use intentions, are underexplored (cf. Raza et al., 2023). Scholars in the service research domain (e.g., Bapat and Khandelwal, 2023; Chesney et al., 2017; Garry and Harwood, 2019) emphasize the need for deeper insights into the key drivers, moderating influences, and consequences of trust for both consumers and service providers. Our research addresses this critical issue by answering three important questions that are potentially valuable to the advancement of service theory and practice in the online food delivery service sector.

Instead of merely focusing on general trust in technology (Su et al., 2023), our first research question investigates specifically the determinants of consumer trust in food app

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3 recommendations. Establishing this trust is posited to significantly enhance the rapport
4 between customers and service providers (Fang and Li, 2020). Drawing from broader service
5 and e-commerce literature (Fang and Li, 2020; Harris et al., 2016; Kim and Peterson, 2017;
6 Mou et al., 2020), this study uniquely identifies two previously unexamined factors that could
7 impact trust in app recommendations: contextual elements like menu descriptions and
8 technology-related factors like perceived app security. These factors are argued to be critical
9 for users perceiving recommendations as genuine.
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19 Beyond well-researched outcomes like continued use (Raza et al., 2023) and loyalty
20 (Su et al., 2023), our second question investigates additional effects of trust in food app
21 recommendations. By expanding on trust-commitment theory (Morgan and Hunt, 1994;
22 Mukherjee and Nath, 2007; Ponder et al., 2016) and the involvement-commitment model
23 (Beatty et al., 1988; Elgammal et al., 2024; Mou et al., 2020), we examine how trust
24 influences not only customer commitment and involvement but also their willingness to pay
25 more, provide feedback, and share personal data. These insights are crucial for service
26 providers who rely on recommendation systems to engage customers, foster long-term
27 relationships, and facilitate upselling. Despite its importance, empirical evidence for these
28 relationships is lacking in the service literature, which this study aims to address.
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42 Moreover, as a departure from prior literature (Raza et al., 2023; Su et al., 2023), the
43 third inquiry investigates the conditions under which trust in app recommendations enhances
44 customer commitment and involvement. Two potential moderators—perceived convenience
45 and rewards/incentives—are identified as crucial in strengthening the relationships between
46 trust, commitment, and involvement. Our hypothesis is that both convenience, and rewards
47 and incentives fortify these connections. Empirical findings suggest that greater convenience
48 from app usage fosters trust in app recommendations, thereby increasing customer
49 commitment and involvement (Roy et al., 2018; Khan and Wahab, 2023). Service
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3 convenience has been shown to enhance consumer trust in providers (Ameen et al., 2021;
4 Collier and Sherrell, 2010) and positively affect post-usage attitudes toward food delivery
5 services (Yeo et al., 2017). Although previous studies have not examined the moderating role
6 of convenience on the impact of trust in app recommendations on commitment and
7 involvement, exploring these relationships is crucial for advancing knowledge in self-service
8 technology.
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12 Relatedly, insights gleaned from existing literature (Ferrin and Dirks, 2003; Kang et
13 al., 2015; Kumar and Gupta, 2021; Negi et al., 2023; Sadiq et al., 2021; Tsai et al., 2023)
14 suggest that reasonable incentives and rewards based on app recommendations can foster
15 trust, enhancing customer commitment and involvement. Economic rewards have been
16 recognized as key factors in trust formation (Ferrin and Dirks, 2003; Wang et al., 2020) and
17 moderating motivations and perceptions (Chang et al., 2019; Kang et al., 2015; Kumar and
18 Gupta, 2021). However, the moderating role of incentives and rewards in the relationship
19 between trust in app recommendations, customer commitment, and involvement remains
20 unexplored in online food delivery services. Investigating this effect advances our
21 understanding in this field.
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41 Altogether, the questions addressed in this article are critical to advancing service
42 theory and practice in several ways. First, this study is the first to empirically demonstrate the
43 positive impact of menu descriptions and perceived app security on trust in app
44 recommendations, particularly within the context of food apps. By doing so, it deepens our
45 understanding of the importance of contextual and technology-related factors in building and
46 sustaining trust in app recommendations. These insights are valuable for practitioners seeking
47 effective strategies to establish and maintain trust in (food) app recommendations.
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57 Second, this study contributes to service theory and practice by elucidating the
58 implications of trust in app recommendations for service providers. Our research
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3 complements and expands the existing services marketing literature (Bapat and Khandelwal,
4 2023; Chesney et al., 2017; Garry and Harwood, 2019) by identifying the consequences of
5 trust. Notably, our study distinguishes itself by not only focusing on the food app context but
6 also revealing that trust is crucial for customer involvement, commitment, and willingness to
7 provide feedback to service providers.
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15 Third, our study contributes to service theory and practice by identifying boundary
16 conditions that influence the relationships between trust and both involvement and
17 commitment. Specifically, this is the first study within the service research domain to
18 demonstrate the positive moderating roles of perceived convenience and rewards and
19 incentives on the relationships between trust in app recommendations and involvement and
20 commitment. These nuanced findings offer service practitioners a deeper understanding of
21 the factors shaping trust in customer-firm relationships, enabling them to develop more
22 effective strategies to enhance customer engagement.
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33 These contributions highlight the importance of understanding trust in food app
34 recommendations, providing valuable insights for both service theory and practice.
35 Theoretically, this study is among the first to empirically extend and test the integrative
36 theories of trust-commitment and involvement-commitment within the context of online food
37 delivery services, and more broadly, the service research domain.
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45 The remainder of this manuscript is organized as follows: theoretical underpinning,
46 hypotheses development, methodology, results, discussion, theoretical contributions,
47 managerial implications, conclusions, and limitations and future research.
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50 51 **2. Theoretical Underpinning**

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54 This study draws upon an expanded commitment-trust theory and the involvement-
55 commitment model as theoretical foundations. The trust-commitment theory underscores the
56 significance of trust and commitment in influencing favorable customer behavior and
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3 yielding positive outcomes for the firm (Morgan and Hunt, 1994; Mukherjee and Nath, 2007;
4 Ponder et al., 2016). As highlighted by Morgan and Hunt (1994), commitment and trust serve
5 as key mediators in relationship marketing, motivating marketers to prioritize nurturing long-
6 term partnerships and safeguarding these investments in relationships. The researchers'
7 proposed model testing trust and commitment as mediating variables between five
8 antecedents and five dependent variables was, indeed, found to be parsimonious and
9 explained a substantial amount of variance. Even though the context of the authors' study
10 was the automobile tyre retail industry, they suggested that future studies expand upon their
11 study's proposed relationships and extend to other contexts. Therefore, in this study, the trust-
12 commitment theory has been extended by incorporating additional variables that are pertinent
13 but have been under-theorized within the context of app-based food delivery services.
14 Specifically, perceived app security and menu description are argued here to be key
15 antecedents to trust in app recommendation. Moreover, insights gleaned from the broader
16 literature (e.g., Ameen et al., 2021a; Collier and Sherrell, 2010; Kumar and Gupta, 2021;
17 Chang et al., 2019) highlight the necessity of theorizing the potential moderating influence of
18 perceived convenience and rewards and incentives on the link between trust in app
19 recommendations and customer commitment to food delivery apps. Furthermore, the
20 extended trust-commitment theory allows us to clarify the importance of trust and customer
21 commitment in reducing uncertainty related to food delivery app usage and driving specific
22 customer outcomes like providing feedback, sharing personal data, and willingness to pay
23 more. Prior to this study, and to the best of the authors' knowledge, none of these outcomes
24 had been examined in research on online food delivery services.

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26 Similarly, the involvement commitment model, proposed by Beatty et al. (1988),
27 highlights how customer involvement influences commitment to a product or service. More
28 broadly, involvement reflects the degree of personal significance an individual assigns to a
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3 specific offering. Beatty et al. (1988) tested an involvement-commitment model and
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5 empirically assessed it using data relevant to soft drink consumption. Their model was rooted
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7 in Rothschild and Houston's (1980) involvement model and Bloch and Richins' (1983)
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9 product-importance model. Their results highlighted that greater involvement correlates with
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11 increased commitment, as individuals allocate more cognitive and emotional resources to the
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13 relationship. Given that their research focused solely on soft drinks, which can be considered
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15 a low-involvement product, the authors recommended reevaluating the model's applicability
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17 across diverse product categories. In this study, not only is the involvement-commitment
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19 model applied to the realm of online food delivery services but also the premise that trust
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21 serves as a precursor to customer involvement is examined. Additionally, whether customer
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23 involvement positively impacts commitment is investigated and its associations with
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25 desirable outcomes such as willingness to provide feedback, share personal data, and
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27 willingness to pay more are explored.
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33 Most of all, through the integration of the trust-commitment theory and the
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35 involvement-commitment model, this study presents a comprehensive theoretical framework
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37 (refer to Figure 1) elucidating the key antecedents, moderators, and consequences of trust in
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39 app recommendations. This approach represents a unique contribution to both the literature
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41 on food delivery apps and the broader discourse on self-service technologies.
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45 **3. Hypotheses Development**

46 ***3.1 Perceived App Security, Menu Description and Trust in App Recommendation***

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48 Customers are becoming less willing to provide private information online (Yenisey
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50 et al., 2005). In an experimental study, Chesney et al. (2017) found trustingness and
51
52 trustworthiness to be higher in both virtual and physical trade environments in comparison to
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54 electronic environment. Meanwhile, perceived app security can be described as the subjective
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56 likelihood, from the customer's perspective, that their personal or financial information won't
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3 be revealed, saved, and/or stolen during their shopping process and storage by third parties
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5 (Flavian and Cuinaliu, 2006).
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8 Trust reflects a readiness to rely on something or someone (Chung and Kwon, 2009;
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10 Wong and Wong, 2024) and is therefore fundamental to economic exchanges such as online
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12 transactions (Bapat and Khandelwal, 2023; Fang and Li, 2020; Osakwe *et al.*, 2022). Within
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14 the UAE, smart home customers' trust was found to be highly influenced by their perceived
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16 security (Shuhaiber *et al.*, 2023). Similarly, within the mobile application payment context,
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18 perceived security of Chinese consumers was revealed to be the foundation of their trust
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20 (Quan *et al.*, 2023). Although the relationship between perceived security and trust (which
21
22 are narrowed down here as trust in app recommendation [see also Fang and Li, 2020])
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24 remains relatively unexplored in the food delivery apps context, the preceding discussion
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26 provides the grounds for the formulation of the hypothesis below:
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30 H1: Perceived app security has a positive and significant relationship with trust in app
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32 recommendations.
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35 Consumers' emotional response to a product's presentation and its appealing visual
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37 representation can trigger trust in an e-commerce site (Chen and Dibb, 2010). Consumer
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39 hope, also considered a cognition-focused emotional mechanism (Rego *et al.*, 2014), was
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41 found to influence trust in a study utilizing data collected from digital payment app users
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43 (Bapat and Khandelwal, 2023). A high-quality product description that includes clear product
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45 information can satisfy or even surpass the expectations of the customers and decrease levels
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47 of uncertainty associated with the product (Kahn *et al.*, 2002; Mou *et al.*, 2020), consequently
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49 increasing consumer trust in the product (also cf. Yue *et al.*, 2017). Thus, the following
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51 hypothesis is proposed within the current study's context:
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55 H2: Menu description has a positive and significant relationship with trust in app
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57 recommendations.
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3.2. *Trust in App Recommendations and Involvement*

Within technology adoption research, involvement refers to “to an individual’s perceived importance of a [technology artefact] stimulus or situation” (Mou *et al.*, 2020, p.570). The multidimensional involvement construct in this study includes cognitive, enduring, and situational involvement. Cognitive involvement captures the importance the individual attaches to the functional and/or utilitarian performance of the product (Mou *et al.*, 2020), which, in the context of this study is the food delivery app. Enduring involvement is defined as a steady and continuous degree of interest in the product under consideration over a specific period and accordingly, customers perceive it as important to them (Im and Ha, 2011; Mou *et al.*, 2020). Lastly, situational involvement reflects the degree of involvement evoked by a specific situation and therefore unlike enduring involvement, it is transitory in nature (Havitz and Mannell, 2005; Hsia *et al.*, 2010; Mou *et al.*, 2020). In this study, customer involvement is analyzed as a second-order construct that is underpinned by its three dimensions.

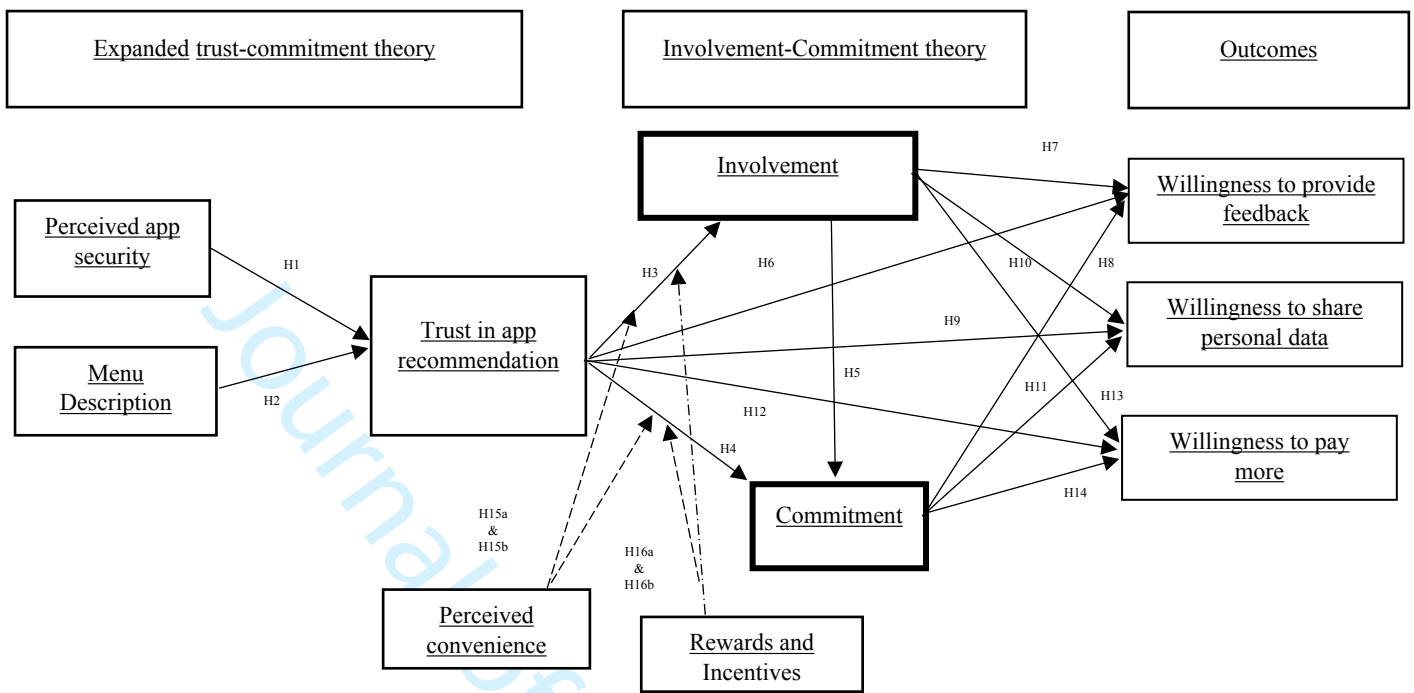


Figure 1: Proposed Research Model

Note:

1. Box with dark boundaries are second-order constructs e.g. involvement and commitment.
2. Dotted lines indicate moderating relationships.

Because online-based food delivery services are still relatively new to consumers worldwide, there might be some fresh insights into how trust in app recommendations would influence customer involvement toward food delivery apps. Moreover, the inquiry on the possible relationship between involvement and trust in app recommendations has been informed by previous research suggestions that trust in virtual assistants, for example, it enhances consumer involvement in the product (Alimamy and Kuhail, 2023). Thus, the following hypothesis is proposed in the online food delivery context:

H3. Trust in app recommendations has a positive and significant relationship with involvement.

3.3 Trust in App Recommendations and Commitment

Commitment is a promise of consistent relationship, attachment, interactions, or behavior between two parties (Ameen et al., 2021b; Gruen *et al.*, 2000; Gundlach *et al.*, 1995). Within the current study, commitment is examined through two components;

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3 “continuance commitment” which refers to the degree to which a customer feels obligated to
4 an organization (Bansal *et al.*, 2004; Fullerton, 2011), and “affective commitment” which is a
5 psychological state that describes the degree to which a consumer identifies with and feels a
6 strong attachment to an organization (Allen and Meyer, 1990; Fullerton, 2011; Gruen *et al.*,
7 2000). Both affective and continuance commitment are operationalized in this study as a
8 higher-order commitment construct.
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11 Within the relationship marketing realm of research, it has been long theorized that
12 trust is a critical antecedent of commitment (Ameen *et al.*, 2020b; Bapat and Khandelwal,
13 2023; Fullerton, 2011; Khan *et al.*, 2020; Sanchez-Franco, 2009). Building on extant research
14 and informed by the commitment-trust framework (Morgan and Hunt, 1994), the following
15 hypothesis is proposed:
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18 H4: Trust in app recommendations has a positive and significant relationship with
19 commitment.
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21 **3.4 Involvement and Commitment**

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23 According to the involvement-commitment model, involvement has a vital role in
24 creating commitment (Beatty *et al.*, 1988; Rothschild and Houston, 1980). Prior research on
25 the association between involvement and commitment revealed that high levels of
26 involvement increase consumer commitment to adopt a product or service provider (Inoue *et*
27 *al.*, 2017; Sanchez-Franco, 2009). Within the research context, it stands to reason that
28 customers will become more committed to utilizing food delivery app consistently the more
29 involved they are with the app, leading to the following hypothesis:
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32 H5. Involvement has a positive and significant relationship with commitment.
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3.5 Trust in App Recommendations, Involvement, Commitment, and Willingness to Provide Feedback

Consumers' feedback assists firms in developing and improving their long-term plans for creating services (Groth *et al.*, 2004). They are the ones who are affected by staff's actions, and firms can substantially take advantage of customer suggestions for improved service through their citizenship behavior (Yi and Gong, 2012). In this vein, trust has long been considered the key to sustaining a favorable relationship between a business and its customers (Anderson and Weitz, 1989; Chesney *et al.*, 2017; Luk *et al.*, 2018; Zboja and Voorhees, 2006) and hence influencing customers' behavioral intentions (Ashraf *et al.*, 2020; Malodia *et al.*, 2023; Osakwe *et al.*, 2022; Wang *et al.*, 2023). For example, trust shown in a passenger's online review influences their willingness to provide feedback (i.e., suggest the service to others) (Wang *et al.*, 2023). Based on prior studies, the relationship between trust in app recommendations and customers' extra-role behaviors such as their willingness to provide feedback is examined and the following is proposed:

H6: Trust in app recommendations has a positive and significant relationship with willingness to provide feedback.

Researchers like Homburg and Ukrainets (2021) and Reichheld (2003) asserted that consumers' loyalty can be determined by gauging how enthusiastically customers refer a particular good or service to their friends and relatives and provide them with feedback. According to past studies (e.g., Sundaram *et al.*, 1998), product participation and involvement are considered powerful motivations to propagate positive word-of-mouth about a brand or service provider, with significant implications for brand loyalty (Kim & Lee, 2017). Similarly, a recent review of the literature by Gong and Yi (2021) found that desirable customers' behavior, such as the desire to provide feedback, is influenced and frequently driven by a customer's positive feeling of commitment to a certain service provider (see also

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3 Natarajan *et al.*, 2023). Drawing upon the preceding discussion, it is asserted that an
4 individual's involvement as well as commitment to the food delivery app, will have a
5 considerable impact on their willingness to provide feedback, leading to the following
6 propositions:
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12 H7: Involvement has a positive and significant relationship with willingness to provide
13 feedback.
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17 H8: Commitment has a positive and significant relationship with willingness to provide
18 feedback.
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21 **3.6 Trust in App Recommendations, Involvement, Commitment, and Willingness to Share**

22 **Personal Data**

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26 Previous studies revealed that individuals are more likely to share their personal
27 information with the brand or service provider when their perception of enjoyment and
28 informativeness about the product or service is increased (Smink *et al.*, 2019). However,
29 when customers are asked too many questions to reveal their information “i.e., Intrusiveness”
30 and if they are unsure as to how their information will be utilized, they are likely to
31 experience discomfort, distrust, and hesitation to disclose it (Baek and Morimoto, 2012;
32 Poushneh, 2018), particularly within the mobile app context (Wottrich *et al.*, 2018).
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35 Nevertheless, Smink *et al.* (2019) revealed different results within augmented reality (AR)
36 shopping as they suggested that a higher perception of intrusiveness increased the customers’
37 desire to divulge and share their personal information, which is possible because the
38 advantages of using AR for online product presentations.
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51 Interaction and constant connection between the customer and the service provider is
52 considered “commitment” (Khan *et al.*, 2020; Gruen *et al.*, 2000; Morgan and Hunt, 1994).
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54 Indeed, both constructs of customer involvement and commitment are considered to play an
55 important role in promoting willingness to disclose/share personal information to service
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3 providers by individuals (Campbell, 2019; Jai and King, 2016). Similarly, recent research that
4 was undertaken among US consumers reports that willingness to share personal information
5 could benefit from the development of customer trust (Song and Kim, 2021). Consequently,
6 the following hypotheses are proposed:
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11 H9: Trust in app recommendations has a positive and significant relationship with willingness
12 to share personal data.
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14 H10: Involvement has a positive and significant relationship with willingness to share
15 personal data.
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17 H11: Commitment has a positive and significant relationship with willingness to share
18 personal data.
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22 **3.7 Trust in App Recommendations, Involvement, Commitment, and Willingness to Pay**

23 **More**

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26 The concept of willingness to pay more or willingness to pay a price premium has
27 gained popularity in recent years due to economic benefits (Albert *et al.*, 2013; Hwang *et al.*,
28 2021; Temperini *et al.*, 2017; Wallace *et al.*, 2022). Past research supports the role of trust in
29 improving customer's willingness to pay more (Temperini *et al.*, 2017; Wallace *et al.*, 2022).
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33 In the hospitality literature, higher customer involvement in a product has been
34 positively associated with willingness to pay more (Namkung and Jang, 2017), which
35 suggests that the degree to which a product is seen as relevant to a consumer will determine
36 whether the consumer will be willing to pay more for that product. Following are hypotheses
37 related hypotheses:
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40 H12. Trust in app recommendations has a positive and significant relationship with
41 willingness to pay more.
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44 H13. Involvement has a positive and significant relationship with willingness to pay more.
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46 H14. Commitment has a positive and significant relationship with willingness to pay more.
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3.8 The Moderating Role of Perceived Convenience and Rewards and Incentives

Previous research has recognized the significant influence of perceived service convenience on customer behavior, particularly within service industries (Berry *et al.*, 2002), which is evident in customers' time and effort savings (see also Dai and Salam, 2014; De Kerviler *et al.*, 2016; Malodia *et al.*, 2023). Scholars contend that the adoption of self-service technology streamlines routine tasks, reducing their time-consuming and burdensome nature (e.g., Kim *et al.*, 2010; Roy *et al.*, 2018), and is a crucial determinant of customer satisfaction (Kuo *et al.*, 2012; Seiders *et al.*, 2005), a factor long-established as closely related to relational variables such as trust, commitment, and involvement (also cf. Fullerton, 2011; Sanchez-Franco, 2009). Moreover, previous studies have identified perceived convenience as a significant driver of consumer trust in technology (Ameen *et al.*, 2021a; Collier and Sherrell, 2010; Khan and Khan, 2018; Malodia *et al.*, 2023). This leads us to posit that perceived convenience, in addition to directly influencing trust in app recommendations, may also play a crucial moderating role in the relationships between trust, customer commitment, and involvement in the focal app.

Indeed, there is a growing body of empirical literature focusing on the moderating role of perceived convenience in both service and non-service settings (Hu *et al.*, 2020; Indiani *et al.*, 2020; Khan and Wahab, 2023; Kuo *et al.*, 2012; Roy *et al.*, 2018). While Roy *et al.* (2018) theorized but did not validate their assertions regarding the potential moderating effect of service convenience on the relationship between fairness and customer helping behavior, Kuo *et al.* (2012) demonstrated in their study that a customer's perception of service convenience can significantly impact the satisfaction-behavioral intention link.

Kwan and Wahab (2023) in their study in the hospitality industry found that service convenience moderates the impact of satisfaction on customer engagement. Given these findings, perceived convenience could be an important factor in moderating the impact of

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3 trust in app recommendations on customer involvement and commitment in the food delivery
4 services context. In fact, it is argued that individuals who perceive greater convenience in app
5 usage are more likely to trust the app recommendations, thereby enhancing their involvement
6 and commitment to the app and the services offered by their providers. Put more expertly, it
7 is posited that perceived convenience will strengthen the positive influence of trust in app
8 recommendations on both customer involvement and commitment. Hence, this pioneering
9 study seeks to validate the following:

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19 H15a. Perceived convenience strengthens the relationship between trust in app
20 recommendations and involvement.

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24 H15b. Perceived convenience strengthens the relationship between trust in app
25 recommendations and commitment.

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28 In the context of this study, rewards and incentives denote marketing incentives or
29 price reductions (e.g., exclusive offers, flat-rate savings, percentage discounts, or earned
30 points) provided to users of food delivery apps with the aim of bolstering customer retention
31 and acquiring new customers (cf. Negi *et al.*, 2023). Prior research indicates that rewards and
32 incentives significantly influence brand image and usage intentions in online food delivery
33 services (Anbumathi *et al.*, 2023; Negi, 2023). Moreover, rewards and incentives have been
34 shown to foster trust and commitment more broadly (Fang & Li, 2020; Ferrin and Dirks,
35 2003; Khare *et al.*, 2019). Hence, this study examined whether the concept of rewards and
36 incentives moderates the relationships between trust in app recommendations, customer
37 involvement, and commitment.

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51 In examining the relationships, it is noted that related research serves as the guiding
52 light. For instance, studies suggest that rewards and incentives reinforce trust-related
53 connections (e.g., Kang *et al.*, 2015) and dampen consumer pessimism toward a product
54 (Sadiq *et al.*, 2021). Additionally, Kumar and Gupta (2021) suggest that the impact of
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3 consumer attitude on mobile wallet adoption is contingent upon monetary incentives, with
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5 higher incentives strengthening the link between attitude and adoption. In online retail,
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7 rewards and incentives interact significantly with affective commitment to enhance intentions
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9 to revisit (Chiu *et al.*, 2018). However, research on the moderating role of rewards and
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11 incentives is still evolving, prompting us to investigate whether they function similarly in the
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13 context of online food delivery services.
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17 As articulated by Wang *et al.* (2020:691), “when people have experienced [economic]
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19 benefits from using [online-based platforms] ... they will be more likely to trust [the
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21 platform] spontaneously and will not feel pressured to be involved.” This implies that when
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23 users in the context of this study derive more rewards and incentives, they are more inclined
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25 to trust app recommendations freely, thereby enhancing their level of involvement and
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27 commitment to the app. In essence, it is hypothesized that rewards and incentives foster
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29 greater trust in the app recommendations, leading to heightened involvement and
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31 commitment.
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35 In summary, the argument hinges on the notion that rewards and incentives will
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37 strengthen the impact of trust in app recommendations on both customer involvement and
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39 commitment to the app. Hence, this study seeks to validate the following:
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42 H16a. Rewards and incentives strengthen the relationship between trust in app
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44 recommendations and involvement.
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46 H16b. Rewards and incentives strengthen the relationship between trust in app
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48 recommendations and commitment.
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51 **4. Methodology**

52 **4.1 Study Design and Pilot Study**

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54 This research utilized a cross-sectional, self-administered online survey (see Appendix
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56 A) to collect data. The survey consisted of four sections: consent letter, screening questions,
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3 measurement items, and demographic questions. A five-point Likert scale with responses
4 ranging from one (strongly disagree) to five (strongly agree) was used to measure constructs.
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8 Past research was consulted for the study's measurement items. Specifically, the
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10 source for items related to involvement (cognitive, enduring, and situational) was Mou *et al.*
11 (2020). The commitment measurement items (continuance and affective) came from
12 Fullerton (2011). The trust-commitment related items including menu description, perceived
13 app security and trust in app (product) recommendations were sourced from Mou *et al.*
14 (2020), Kim *et al.* (2011), and Fang and Li (2020) respectively. Hwang *et al.* (2021), Yi and
15 Gong (2013) and Smink *et al.* (2019) were consulted for the three outcome variables
16 willingness to pay more, willingness to provide feedback, and willingness to share personal
17 data, respectively. The source for perceived convenience, a moderating variable was De
18 Kerviler *et al.* (2016). Lastly, items for the rewards and incentives scale was developed
19 specifically for this study due to the absence of a scale specifically related to the food
20 delivery app context. This practice is consistent with prior research (Sharma *et al.*, 2022;
21 Slepchuk, 2022; Suh *et al.*, 2017; Tran *et al.*, 2020).
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37 Before data collection, the survey was pilot tested using 20 students in a hospitality
38 management program and food service industry employees to address any issues related to
39 readability and comprehension. Industry and academic experts in food service also reviewed
40 the survey for purposes of content validity.
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46 **4.2 Data Collection**

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48 Qualtrics™, a professional market research company, was engaged in data collection.
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50 The population for this study was individuals 18 and over who had utilized a food delivery
51 app to order and pay at least once during the past year in the U.S. Due to needing to fulfil
52 these specific characteristics, this study utilized purposive sampling. According to previous
53 research (Abbasi *et al.*, 2023; Rehman *et al.*, 2023), purposive sampling is a useful tool for
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3 hypothesis testing and for gathering data from a small sample of individuals. It has been
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5 emphasised that this method is particularly useful for determining which individuals are most
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7 likely to be trustworthy information providers (Asghar Ali et al., 2021). The context of the
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9 food delivery app users in the U.S. was chosen due to the recent and continued expected
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11 growth of this service (Expert Market Research, n.d.). Mobile-based apps continue to remain
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13 the dominant platform for online food ordering, delivery, and payment (Expert Market
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15 Research, n.d.). Qualtrics™ recruited participants who fit the sample criteria; the online
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17 survey link was provided to a research panel of Qualtrics™. Once respondents consented to
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19 participate, they were prompted to answer the survey questions. Data collection yielded 324
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21 responses that were deemed usable for data analysis.
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26 **5. Results**

27 **5.1 Demographics**

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30 Most respondents were male (62.7%) aged between 25 to 35 years old (61.1%) having
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32 at least a university degree or diploma (45.1%) in their education background. The majority
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34 of respondents indicated they were U.S citizens (97.2%) with 22.5% reporting their
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36 household income was \$125,000 or more. Nearly half of the respondents reported using their
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38 food delivery app on a weekly basis with 30.2% reporting they had been using their current
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40 food delivery app for the past 7 to 12 months (30.2%). Doordash (31.2%) was named as the
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42 food delivery app that first came to the respondent's mind followed by other food delivery
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44 apps (e.g., Postmates, Zomato, Delivery.com, Blue Apron).
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49 **5.2 Data Analysis**

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51 To examine the research model, partial least squares structural equation modelling
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53 (PLS-SEM) was seen as a compatible and useful technique due to its minimal demands in
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55 terms of measurement model (reflective and formative), residual distribution, and sample size
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57 compared to co-variance-based structural equation modelling (CB-SEM) (Sarstedt and
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Cheah, 2019). Also, the purpose of using PLS-SEM conforms to the research objective which is predictive-oriented (Sharma et al., 2024; Chin et al., 2020; Hwang et al., 2021; Wong and Wong, 2024). Moreover, when evaluating complex models such as reflective-formative higher-order constructs (Sarstedt et al., 2019), PLS-SEM was proven to be the best performance method. To address the research objectives, SmartPLS 3.3.7 software was used to estimate the current research model.

5.3 Common Method Bias (CMB)

Common Method Bias (CMB) was unavoidable in this study as it used a single instrument to assess the relationship between exogenous and endogenous constructs (Podsakoff et al., 2013; Ali et al., 2023). Two recommended remedies were used to minimize the effects of CMB, including procedural remedy and statistical remedy. With respect to procedural remedy, this study relied on contextual information, introductory messages, straightforward language, and detailed descriptions. Also, respondents were guaranteed anonymity to minimize their level of uneasiness or fearfulness when answering the questionnaire (MacKenzie and Podsakoff, 2012).

Statistical remedy was then applied using Harman's single factor test (Podsakoff et al., 2013; Abbasi et al., 2023) and full collinearity test (Kock and Lynn, 2012). The Harman's single factor test for the principal component factor analysis result illustrated that the variance explained by the first factor was 41.99% (<40%), indicating that there was minor CMB in this study (Babin et al., 2016).

5.4 Assessment of the Reflective Measurement Model

Subsequently, the quality of the measurement model for the collected datasets was assessed. First, convergent validity of the constructs was checked using outer loadings and the average variance extracted (AVE). Results available in Table 1 show majority of the items met the suggested outer loading criteria of 0.70 (Bagozzi et al., 1991) except for

MEU3, SIV3 and SIV4, which were deleted. Then, the AVE scores for all the constructs exceeded the suggested value of 0.50 (Fornell and Larcker, 1981). Also, the internal consistency of all the items was evaluated; results showed that all constructs had composite reliability (CR) values that met the minimum rule of thumb of 0.70 (Hair *et al.*, 2019). Lastly, Heterotrait-Monotrait (HTMT) ratio (see Table 2) was used to assess the dataset for discriminant validity (Henseler *et al.*, 2015). As observed, the constructs' HTMT values were all below the conservative threshold of 0.85 (Henseler *et al.*, 2015), confirming their discriminant validity.

Table 1: Assessment of reliability, convergent validity and full collinearity

Construct	Item	Loading	CR	AVE
Affective Commitment	ACM1	0.922	0.955	0.875
	ACM2	0.941		
	ACM3	0.943		
Continuance Commitment	CCM1	0.884	0.920	0.794
	CCM2	0.898		
	CCM3	0.892		
Cognitive Involvement	CIT1	0.700	0.841	0.571
	CIT2	0.815		
	CIT3	0.762		
	CIT4	0.741		
Perceived Convenience	COV1	0.811	0.851	0.656
	COV2	0.867		
	COV3	0.748		
Enduring Involvement	EN1	0.899	0.926	0.807
	EN2	0.898		
	EN3	0.899		
WPF	FED1	0.900	0.885	0.721
	FED2	0.779		
	FED3	0.864		
Menu Description	MEU1	0.882	0.862	0.757
	MEU2	0.858		
	MEU3	D		
WSP	PAY1	0.830	0.894	0.738
	PAY2	0.871		
	PAY3	0.876		
	RIC1	0.757		
Rewards and Incentives	RIC2	0.861	0.910	0.669
	RIC3	0.870		
	RIC4	0.851		

Construct	Item	Loading	CR	AVE
Perceived app Security	RIC5	0.741	0.905	0.704
	SEC1	0.799		
	SEC2	0.849		
	SEC3	0.876		
WPM	SEC4	0.830	0.924	0.802
	SHARE4	0.913		
	SHARE5	0.908		
	SHARE7	0.864		
Trust	SIV1	0.922	0.906	0.829
	SIV2	0.898		
	SIV3	D		
	SIV4	D		
	TRU1	0.855		
	TRU2	0.854		
	TRU3	0.816		
	TRU4	0.854		

Note: D = Item deleted due to low loading result; CR (Composite Reliability); AVE (Average Variance Extracted); FC (Full Collinearity); WPF (Willingness to Provide Feedback); WSP (Willingness to Share Personal Data); WPM (Willingness to Pay More)

5.5 Assessment of Higher-order Construct (HOC)

This research consists of two constructs (involvement and commitment) which are manifested as a reflective-formative higher-order construct (HOC) (Table 3). The assessment of both HOCs was then adapted using the disjoint two-stage approach (Sarstedt *et al.*, 2019). The assessment revealed that for lower-order constructs (LOCs), there was none that been affected by collinearity as the VIF values were less than 3.33, ranging from 1.674 and 2.450, for all the datasets (Becker *et al.*, 2015). Therefore, collinearity was not an issue for the HOC of involvement and commitment. Finally, in the last step, the weight and significance were analyzed (Sarstedt *et al.*, 2019). All three items in the LOC for involvement were statistically significant ($p < 0.05$) (i.e., enduring involvement = 0.135; cognitive involvement = 0.639; situational involvement = 0.375); similarly, both items in the LOC for commitment (i.e., affective commitment = 0.729; continuance commitment = 0.339) were statistically significant ($p < 0.05$). Thus, consistent with the previous research, both HOCs were found to be formatively formed by several LOCs.

5.6 Assessment of the Structural Model

The inner VIF of each path was first examined in the structural model stage. Table 4 shows all the VIF values ranging from 1.643 and 2.797, indicating collinearity is not an issue (Becker *et al.*, 2015). This implies that the path coefficients can be evaluated with confidence. Next, the hypotheses for each path were tested through a bootstrapping technique with 5000 sub-samples (Streukens and Leroi-Werelds, 2016).

Based on the assessment towards the full database (Table 4), results indicated that most of the suggested hypotheses were statistically significant. It can be observed that perceived app security (H1: $\beta=0.568$; $p<0.001$) and menu description (H2: $\beta=0.285$; $p<0.001$) have positive relationships with trust. The positive relationships between trust and involvement (H3: $\beta=0.771$; $p<0.001$), commitment (H4: $\beta=0.393$; $p<0.001$) and willingness to provide feedback (H6: $\beta=0.133$; $p=0.027$) are also observed, supporting H3, H4 and H6. Likewise, positive relationships were observed between involvement and commitment (H5: $\beta=0.382$; $p<0.001$), willingness to provide feedback (H7: $\beta=0.481$; $p<0.001$), willingness to share personal data (H10: $\beta=0.321$; $p<0.001$) and willingness to pay more (H13: $\beta=0.218$; $p<0.001$). Also, commitment was observed to have positive relationships with willingness to provide feedback (H8: $\beta=0.232$; $p<0.001$), willingness to share personal data (H11: $\beta=0.390$; $p<0.001$) and willingness to pay more (H14: $\beta=0.584$; $p<0.001$). However, in contrast to the hypotheses, trust did not positively influence willingness to share personal data (H9: $\beta=0.036$; $p=0.320$) and willingness to pay more (H12: $\beta=0.001$; $p=0.496$).

Table 2: Discriminant validity result using the Heterotrait-Monotrait (HTMT) ratio correlation

Construct	1	2	3	4	5	6	7	8	9	10	11	12	13
1. Affective Commitment													
2. Cognitive Involvement	0.758												
3. Continuance Commitment	0.796	0.738											
4. Convenience	0.533	0.792	0.520										
5. Enduring Involvement	0.600	0.766	0.424	0.766									
6. Menu Description	0.499	0.643	0.323	0.776	0.736								
7. Perceived app Security	0.704	0.822	0.573	0.739	0.794	0.818							
8. Rewards and Incentives	0.642	0.633	0.598	0.592	0.587	0.472	0.654						
9. Situational Involvement	0.613	0.687	0.433	0.835	0.848	0.784	0.766	0.644					
10. Trust	0.772	0.866	0.623	0.695	0.731	0.833	0.864	0.615	0.766				
11. WPF	0.727	0.813	0.646	0.824	0.775	0.696	0.860	0.742	0.834	0.795			
12. WSP	0.698	0.728	0.657	0.667	0.538	0.577	0.648	0.582	0.626	0.653	0.698		
13. WPM	0.766	0.743	0.764	0.643	0.531	0.428	0.662	0.666	0.543	0.656	0.747	0.724	

Note: HTMT<0.85 (Kline, 2015); WPF (Willingness to Provide Feedback); WSP (Willingness to Share Personal Data); WPM (Willingness to Pay More)

Table 3: Result of higher-order construct

Higher-Order Construct	Lower-Order Construct	VIF	Weight	t-value	p-value
Involvement	Enduring Involvement	2.450	0.135	2.062	0.039
	Cognitive Involvement	1.674	0.639	11.675	0.000
	Situational Involvement	2.089	0.375	5.153	0.000
Commitment	Affective Commitment	2.050	0.729	10.285	0.000
	Continuance Commitment	2.050	0.339	4.454	0.000

Note: VIF = Variance Inflation Factor

The structural model's assessment also revealed that 61% of the variance in trust was explained by perceived app security and menu description, which represents the highest explained variance. This was followed by a 59.8% variance in willingness to provide feedback explained by trust, involvement, and commitment and a 59.5% variance in involvement explained by trust. It was also observed that a 56.5% variance in willingness to pay more was explained by involvement and commitment while a 53.2% variance in commitment was explained by both trust and involvement. Lastly, only a 46.5% variance in willingness to share personal data was explained mostly by involvement and commitment.

Next, applying Cohen's (1988) guidelines in identifying the effect size within the relationships, it can be noted that a large effect size was observed on the relationship between perceived app security and trust (H1) ($f^2 = 0.449$), and commitment and willingness to pay more (H14) ($f^2 = 0.367$). A medium effect size can be seen in the relationship between involvement and willingness to provide feedback (H7) ($f^2 = 0.207$). Data also revealed a small effect size ($f^2 = 0.016 - 0.134$) on the relationships of H2 (menu description → trust), H4 (trust → Involvement), H5 (involvement → commitment), H6 (trust → willingness to provide feedback), H8 (commitment → willingness to provide feedback), H10 (involvement → willingness to share personal data), H11 (commitment → willingness to share personal data), and H13 (involvement → willingness to pay more). Lastly, a trivial effect size ($f^2 = 0.000 - 0.001$) was observed with the relationships of H12 (trust → willingness to pay more) and H9 (trust → willingness to share personal data).

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3 Finally, a predictive relevance assessment was done by executing a blindfolding
4 procedure to assess the Stone-Geisser's Q^2 statistic (Geisser, 1974; Stone, 1974) (see Table
5 4). The highest Q^2 values were observed for trust at 0.599, followed by involvement at 0.551,
6 and willingness to provide feedback at 0.463. It is also noted that a Q^2 value of 0.345 was
7 recorded for commitment followed by 0.288 for willingness to share personal data, and lastly
8 0.279 for willingness to pay more. Because Q^2 values were found to be greater than zero for
9 all variables, the conclusion is that the model possessed predictive quality (Hair *et al.*, 2019).

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5.7 Assessment of Moderating Effect

To assess the moderating effect, a two-stage latent interaction technique (Becker *et al.*, 2018) was used (see Table 4). Perceived convenience was found to moderate the relationship between trust and involvement (H15a: $\beta=0.097$; $p=0.012$) and trust and commitment (H15b: $\beta=0.110$; $p<0.001$). Likewise, it can be observed that rewards and incentives did moderate the relationships between trust and involvement (H16a: $\beta=0.090$; $p=0.039$) as well as with trust and commitment (H16b: $\beta=0.085$; $p=0.003$). Next, a simple slope analysis was performed to determine the interaction plot within the relationship interaction.

With regards to the moderating effect of perceive convenience (H15a: $\beta=0.097$; H15b: $\beta=0.110$) along with rewards and incentives (H16a: $\beta=0.090$; H6b: $\beta=0.085$), the interaction plot reflects that high perceived convenience (green line) together with high rewards and incentive (green line) are steeper than low perceived convenience (blue line) along with low rewards and incentives (blue line) (see Fig.2 - Fig.5). Hence, it is concluded that when perceive convenience is high, the relationship between trust and involvement together with trust and commitment becomes stronger. Similarly, when rewards and incentives are high the relationship between trust and involvement along with trust and commitment is inclined to be stronger.

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Table 4: Assessment of structural mode

Hypotheses	Std Beta	Std Error	t-value	p-value	CILL	CIUL	VIF	f ²	R ²	Q ²
H1) Perceived app Security -> Trust	0.568	0.047	12.012	0.000	0.487	0.644	1.643	0.499	0.607	0.599
H2) Menu Description -> Trust	0.285	0.048	5.886	0.000	0.203	0.362	1.643	0.126		
H3) Trust-> Involvement	0.771	0.028	27.582	0.000	0.718	0.813	NA	NA	0.595	0.551
H4) Trust -> Commitment	0.393	0.068	5.822	0.000	0.278	0.502	2.467	0.134	0.532	0.345
H5) Involvement -> Commitment	0.382	0.065	5.904	0.000	0.274	0.488	2.467	0.126		
H6) Trust -> WPF	0.133	0.069	1.925	0.027	0.019	0.247	2.797	0.016	0.598	0.463
H7) Involvement -> WPF	0.481	0.071	6.752	0.000	0.355	0.590	2.779	0.207		
H8) Commitment -> WPF	0.232	0.067	3.480	0.000	0.124	0.345	2.136	0.063	0.465	0.288
H9) Trust -> WSP	0.036	0.077	0.468	0.320	-0.087	0.167	2.136	0.001		
H10) Involvement -> WSP	0.321	0.074	4.328	0.000	0.192	0.439	2.779	0.069	0.565	0.279
H11) Commitment -> WSP	0.390	0.066	5.953	0.000	0.285	0.498	2.779	0.133		
H12) Trust -> WPM	0.001	0.073	0.009	0.496	-0.115	0.126	2.136	0.000	0.367	
H13) Involvement -> WPM	0.218	0.073	2.978	0.001	0.092	0.334	2.779	0.039		
H14) Commitment -> WPM	0.584	0.061	9.596	0.000	0.481	0.682	2.779	0.367		
H15a) Trust*Convenience -> Involvement	0.097	0.044	2.205	0.012	0.042	0.186		0.047		
H15b) Trust*Convenience -> Commitment	0.110	0.021	5.201	0.000	0.073	0.135		0.038		
H16a) Trust*RandI -> Involvement	0.090	0.052	1.731	0.039	0.012	0.200		0.026		
H16b) Trust*RandI -> Commitment	0.085	0.031	2.772	0.003	0.024	0.127		0.023		

Note: WPF (Willingness to Provide Feedback); WSP (Willingness to Share Personal Data); WPM (Willingness to Pay More); RandI (Rewards and Incentives); CILL (Confidence Interval Lower Limit); CIUL (Confidence Interval Upper Limit)

Subsequently, the effect size of moderation of perceived convenience on the relationships between trust and involvement (H15a: $f^2 = 0.047$) and trust and commitment (H15b: $f^2 = 0.038$) were reported to be small. Also, it can be found that rewards and incentives had a small effect size when moderating trust and involvement (H16a: $f^2 = 0.026$) along with trust and commitment (H6b: $f^2 = 0.023$). This implies that perceive convenience together with rewards and incentives can be meaningful moderators under extreme moderation conditions despite having a small effect size (Chin *et al.*, 2003).

Figure 2

*Interaction Plot of Trust*Perceived Convenience towards Involvement*

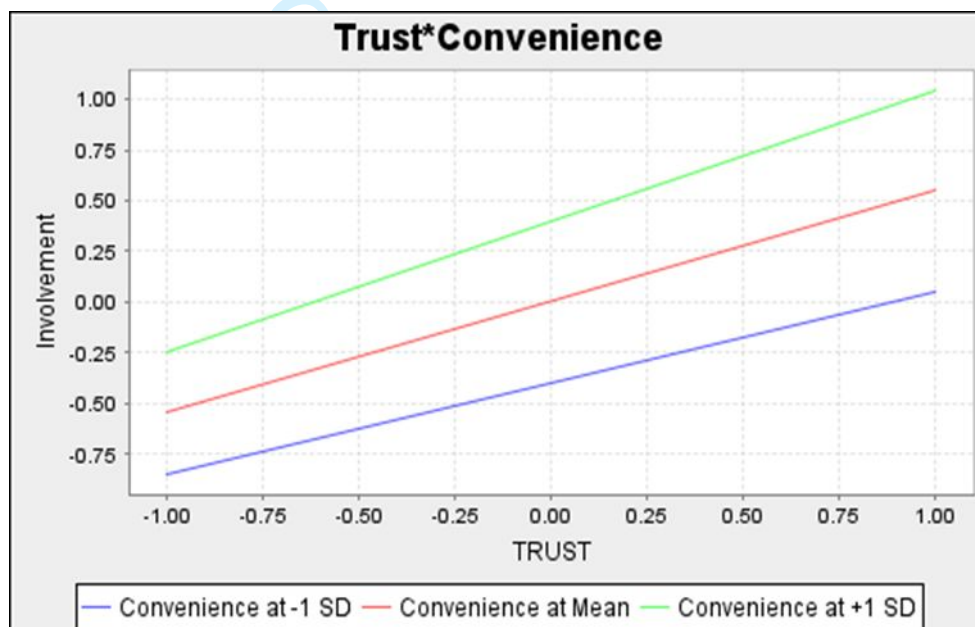


Figure 3

*Interaction Plot of Trust*Perceived Convenience towards Commitment*

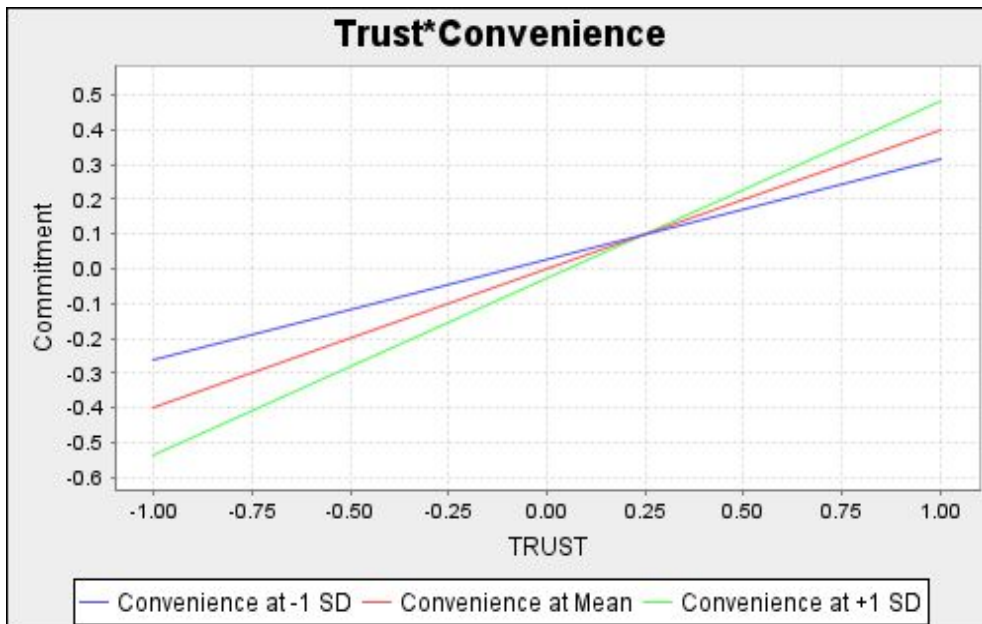


Figure 4

*Interaction Plot of Trust*Rewards and Incentives towards Involvement*

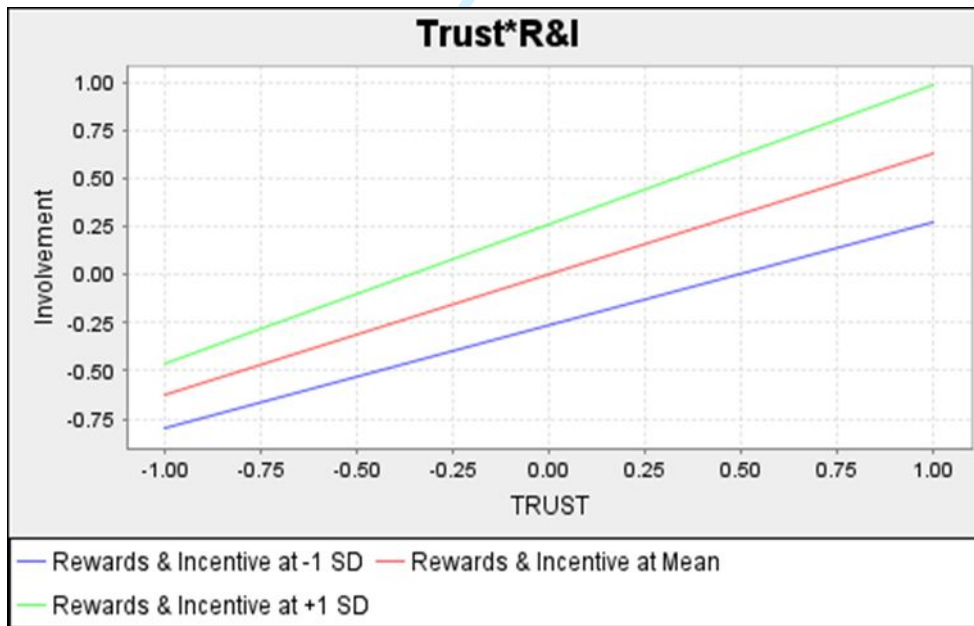
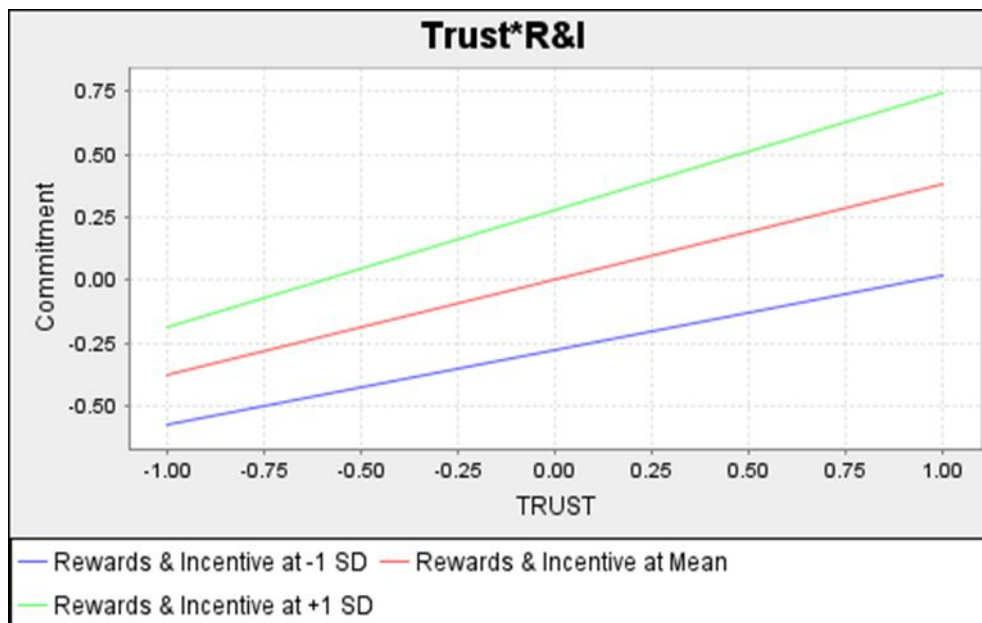


Figure 5*Interaction Plot of Trust* Rewards and Incentives towards Commitment*

6. Discussion

This research utilizes an integrated research model consisting of an expanded commitment-trust theory and involvement-commitment model to elucidate understanding of relevant antecedents to individuals' willingness to provide feedback, share their personal data with the service provider, and willingness to pay more within the context of food delivery apps.

The study's findings validated that both perceived app security and menu description exerted a favourable and substantial relationship with trust in app recommendations. These findings align with the studies conducted by Kim *et al.* (2011), Quan *et al.* (2023), Shuhaiber *et al.* (2023), and Yue *et al.* (2017) respectively. More specifically, this suggests that as customers' perceptions of security increases, their trust in food delivery app recommendations further increases. In a similar vein, this study's research findings also validate the positive role of menu descriptions in cultivating customers' trust in app recommendations, further adding to existing evidence about the specific drivers of trust in product recommendations and

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3 beyond the issue of sociability as found in Fang and Li's (2020) study on trust-building in
4 social commerce sites.
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8 The results of the study also validated that trust has a significant and positive
9 relationship with involvement, commitment, and willingness to share feedback. The results
10 were consistent with the studies conducted by Keusch (2015) and Wang *et al.* (2013). In
11 contrast, it was shown that trust did not have a substantial impact on individuals' inclination
12 to provide personal data or their readiness to pay more for it. This suggests that while an
13 increase in customers' perception of security leads to greater trust in app recommendations,
14 this trust does not necessarily translate into a willingness to share personal data and thereby
15 somewhat contradicting the idea that trust generally may increase consumers' willingness to
16 share their personal data with a third-party (cf. Song and Kim (2021). Like those sought in
17 professional services, it is possible that food app users are looking for communication and
18 social bonds (Ponder *et al.*, 2016) prior to being willing to share personal data.
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33 This study's findings also suggest that trust in app recommendations does not manifest
34 in a manner that would prompt consumers to spend more money when utilizing food delivery
35 applications. This discovery holds substantial significance for practitioners, since it prompts
36 them to explore other characteristics that may incentivize increased payment. The results of
37 this study, however, demonstrate that there is a positive and significant correlation between
38 involvement, commitment, and their inclination to offer feedback, provide personal data, and
39 exhibit a readiness to pay more, expanding upon the seminal work by Beatty *et al.* (1988) as
40 well as Mou *et al.* (2020), in the larger e-commerce context.
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51 Finally, this study also observed the positive and statistically significant moderating
52 roles of perceived convenience and rewards and incentives in connection to consumers' trust
53 in app recommendations, involvement, and commitment. The research results encourage
54 practitioners to continue providing rewards and incentives, such as price discounts and points,
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3 as well as recognition programs, since it seems that all this amplifies the significance of trust
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5 (in app recommendations) on customer involvement and commitment.
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7. Theoretical contributions

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10 There are various theoretical advances in the current study. First, the present study
11 closes a knowledge gap by providing a deeper understanding of factors—particularly their
12 primary causes and potential moderating effects—that affect trust in food delivery apps. This
13 has been addressed by creating and validating a comprehensive model that explains post-
14 consumption decisions pertaining to the use of food delivery apps. There is a dearth of
15 information in current empirical studies (i.e., Raza *et al.*, 2023; Su *et al.*, 2023) related to the
16 comprehension of these links, which are thought to be essential for providers who depend on
17 their in-app recommendations to interact with clients and cultivate long-term relationships. In
18 addition, studies such as Chesney *et al.* (2017), Malodia *et al.* (2023) and Sekhon *et al.* (2013)
19 made a case for trust being a situational factor (see also Greenwood and Buren, 2010),
20 necessitating studies such as this to research trust in varied contexts.
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35 Second, the study makes a distinction between two as-yet-unstudied factors that could
36 affect users' trust in app recommendations: technological factors (like perceived app security)
37 and contextual cues (like menu descriptions), both of which are hypothesized to be essential
38 for users to perceive recommendations as genuine. The role of elements of perceived app
39 security, i.e., data privacy in influencing trust has been contradictory, making the results of
40 this research valuable. For example, in a study involving household cyber-physical system
41 (CPS), Gary and Harwood (2019) found a lack of significance of data privacy on experiential-
42 based performance assessment (a trust dimension) of the household CPS or consumers' faith
43 in its performance. This contrasts the rhetoric about importance of data privacy in online
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3 Third, this is the first study to identify the antecedent and moderating factors that
4 influence food delivery app users' propensity to provide feedback to service providers,
5 divulge personal data, and pay more. Related studies (Raza *et al.*, 2023; Wen *et al.*, 2022)
6 typically explore continuance use intentions as a consequence of trust; however, this study
7 identifies customer involvement, commitment, and willingness to provide feedback as critical
8 outcomes of trust in app recommendations. This new empirical evidence adds to existing
9 research on online food delivery services and, by extension, enriches the services marketing
10 research strand exploring the customer outcomes of trust-building (e.g., Luk *et al.*, 2018;
11 Wong and Wong, 2024; Zboja and Voorhees, 2006).

12 Fourth and relatedly, this study complements and extends existing services marketing
13 literature by identifying two primary situational factors—service convenience and rewards
14 and incentives—that moderate consumer trust in food delivery app recommendations.
15 Specifically, by providing empirical insights into the moderating effect of service
16 convenience on the trust-involvement and trust-commitment relationships, this study
17 enhances prior services marketing research (e.g., Khan and Khan, 2018; Malodia *et al.*, 2023)
18 that has explored service convenience as a direct antecedent of consumer trust. Additionally,
19 it contributes to the existing but limited body of research on the moderating effect of service
20 convenience within the services industry (cf. Kuo *et al.*, 2012; Kwan and Wahab, 2023).
21 Furthermore, to the best of the authors' knowledge, this is the first empirical work to validate
22 the moderating role of rewards and incentives in the relationships between trust, involvement,
23 and commitment within the context of online-to-offline services, particularly in the hospitality
24 industry.

25 Fifth, this study is among the first in the literature to validate the integrated theories of
26 trust-commitment and involvement-commitment in the context of online food delivery
27 services, and more broadly, online-to-offline services. In doing so, we demonstrate that both
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3 the trust-commitment theory (Morgan and Hunt, 1994) and the involvement-commitment
4 model (Beatty *et al.*, 1988), along with their extended versions, provide a comprehensive
5 explanatory framework for investigating complex phenomena such as extra-role behaviors
6 and their distal antecedents, like menu descriptions and perceived app security, particularly
7 within the context of this study. This approach broadens the applicability and theoretical
8 richness of these research lenses.
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11 To sum up, this research contributes to a better understanding of the customer journey
12 in the service industry as it relates to food delivery apps; the issues tackled in this paper via an
13 original model are pertinent to scholars who wish to research topics related to build and
14 preserving confidence in (food) app suggestions. The study also provides insights into
15 methods for developing deep connections with the creators and consumers of online food
16 delivery services.
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18 **8. Managerial Implications**

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20 In terms of managerial implications, it is proposed that service marketers and food
21 delivery app developers collaborate to make the app more secure and efficient. This is
22 because users' trust in the app is strongly correlated with their perceptions of its security and
23 menu description. The study found that the perceived app security and menu description both
24 impact trust in app recommendations. Mobile apps are becoming increasingly technologically
25 proficient and diversified, which has led to an increase in the prevalence of security problems
26 (Liu *et al.*, 2023). In addition to consumers' credit card details and GPS coordinates, these
27 apps typically gather further personal information and require additional permissions (Liu *et*
28 *al.*, 2023). Consequently, users will likely start caring more about how an app protects their
29 personal information (Balapour *et al.*, 2020). End-to-end encryption, proactive vulnerability
30 identification and resolution, firewalls, secure wireless connections, and third-party vendor
31 evaluation can improve transaction security (Ong *et al.*, 2023).
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3 Similarly, marketers may leverage the findings of this study to their benefit by
4 enhancing menu descriptions in order to attract a larger consumer base and boost revenue.
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6 Merchants should enhance the online menu by incorporating visually captivating animations
7 or films, vibrant photos, and a more comprehensive elucidation. Likewise, the utilization of a
8 thorough menu that encompasses detailed information, such as nutritional values, in addition
9 to a menu organized into categories such as meal portions, dietary restrictions, amount, and
10 popular items are also recommended. Moreover, consumers should be able to review dishes
11 with photos, and share them on social media, track their order status, potentially enhancing
12 the reach and popularity of the apps organically. From the findings of this study, it is also
13 deduced that enhanced information related to menu offerings will likely lead to an increase in
14 customers' level of trust, involvement, and commitment. Rather than accentuating the
15 cognitive impact of menu items on consumers, vendors might strive to establish an affective
16 (emotional) bond between customers and the menu items. By appealing to consumers'
17 sentiments, online food delivery service providers can enhance the possibility that customers
18 would buy by personalizing menu descriptions based on factors such as their geography,
19 cultural background, religious beliefs, and more.

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22 From the standpoint of a mobile applications platform, vendors should consider the
23 attributes and trends of mobile food delivery apps and endeavour to alleviate consumers'
24 apprehensions regarding these apps. For example, sellers may utilize the many features of
25 mobile applications to actively communicate with consumers, in a clear and succinct manner
26 regarding specific inquiries that arise during the purchasing journey. This may include
27 providing guidance on expediting the buying process or encouraging consumers to share their
28 evaluations. Furthermore, merchants may utilize the mobile app platform to engage in online
29 communication with customers, aiming to enhance their overall trust in recommending the
30 mobile app, situational and long-lasting involvement and their commitment to the process.

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3 This, in turn, can augment the willingness of customers to share, offer feedback, and pay
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5 more.
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8 Additionally, this research revealed that the relationship between trust, involvement,
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10 and commitment was effectively influenced by both the perceived convenience of utilizing
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12 the service and the presence of rewards and incentives. The implications of these findings
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14 hold great importance within the competitive landscape of mobile food delivery applications.
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16 It is recommended that service providers implement a loyalty program that allows consumers
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18 to accumulate points for each order, which can enhance the existing relationships. It is also
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20 suggested providing incentives to customers for their support can foster loyalty and motivate
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22 them to remain dedicated and engaged with the service provider. Simultaneously, rewards and
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24 incentives in the form of referral bonuses empower customers to become brand advocates.
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26 Incorporating various conveniences such as frictionless order processing, prompt and
27
28 dependable delivery, convenient payment options, order tracking updates, and personalized
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30 suggestions will also enhance the entire consumer experience.
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34 35 **8. Conclusions** 36

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38 Using an extended commitment-trust and involvement-commitment models for the
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40 first time in the context of food delivery apps, this study reinforces several proposed
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42 relationships related to food delivery apps while making contributions to the self-service
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44 technology literature. Perceived security and menu description were both found to have
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46 positive relationships with trust in app recommendations. Trust in app recommendation was
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48 found to have favourable and significant relationships with involvement, commitment, and
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50 willingness to share feedback. However, trust was not found to have a significant relationship
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52 with their desire to provide personal data or willingness to pay more. This is a cautionary note
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54 to food app developers that consumers are still wary of sharing personal data with a third
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56 party even though they have trust in app recommendations. Significant positive relationships
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3 were found between involvement, commitment, and consumers' willingness to offer
4 feedback, provide personal data, and pay more. Lastly, research results reinforce use of
5 rewards and incentives and consumer recognition programs because these factors were found
6 to moderate the relationship between trust in app recommendations, and involvement and
7 commitment. The same holds true for the moderating role of consumers' perceived
8 convenience.

9. Limitations and Future Research

19 In the realm of mobile food delivery apps, this study significantly enhances the current
20 understanding of the commitment-trust and involvement-commitment paradigm.
21 Notwithstanding, it is imperative to recognize a number of constraints that may need more
22 exploration in subsequent scholarly inquiries. According to the study, trust in app
23 recommendation is conceptualized as a unidimensional phenomenon. Due to its complex
24 characteristics, future studies can conceptualize trust as a multidimensional phenomenon.
25 Furthermore, it is important to exercise care when generalizing the findings due to the
26 restricted data collection in the US, as the study employed a cross-sectional approach. In order
27 to enhance the strength of the study, future research should investigate the diverse elements
28 that influence trust among consumers, engagement, and commitment, and how these aspects
29 impact different outcomes of consumer behaviour. Future research can also replicate this
30 model in other contexts and nations.

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33 **Throughout the process of preparing this work, we utilized DeepL to do copy editing
34 and enhance the language and usability of the content written by the authors themselves.
35 Upon utilizing these resources, we meticulously assessed and revised the material as
36 required, assuming complete accountability for the content of the publication.**

References

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46
47
48
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50
51
52
53
54
55 Abbasi, G. A., Goh, Y. N., Iranmanesh, M. and Liebana-Cabanillas, F. (2023), "Determinants
56 of continuous intention to use retail apps: A hybrid PLS-ANN approach", *Journal of
57 Marketing Theory and Practice*. Advance online publication.
58
59
60

- 1
2
3 Abed, S.S. (2023), "Factors influencing consumers' continued use of food delivery apps in the
4 post-pandemic era: insights from Saudi Arabia", *British Food Journal*, Vol. ahead-of-
5 print No. ahead-of-print.
6
7
8 Agarwal, V. and Sahu, R. (2022), "Predicting repeat usage intention towards O2O food
9 delivery: Extending UTAUT2 with user gratifications and bandwagoning", *Journal of*
10 *Foodservice Business Research*, Vol. 25 No. 4, pp. 434-474.
11
12 Al Amin, M., Arefin, M. S., Alam, M. R., Ahammad, T. and Hoque, M. R. (2021), "Using
13 mobile food delivery applications during COVID-19 pandemic: An extended model of
14 planned behavior", *Journal of Food Products Marketing*, Vol. 27 No. 2, pp. 105-126.
15
16 Albert, N., Merunka, D. and Valette-Florence, P. (2013), "Brand passion: Antecedents and
17 consequences", *Journal of Business Research*, Vol. 66 No. 7), pp. 904-909.
18
19
20 Ali, F., El-Manstrly, D. and Abbasi, G. A. (2023), "Would you forgive me? From perceived
21 justice and complaint handling to customer forgiveness and brand credibility-
22 symmetrical and asymmetrical perspectives", *Journal of Business Research*, Vol. 166,
23 114138.
24
25
26 Alimamy, S. and Kuhail, M. A. (2023), "I will be with you Alexa! The impact of intelligent
27 virtual assistant's authenticity and personalization on user reusage intentions",
28 *Computers in Human Behavior*, Vol. 143, 107711.
29
30
31 Allen, N. and Meyer, J. (1990), "The measurement and antecedents of affective, continuance
32 and normative commitment to the organization", *Journal of Occupational Psychology*
33 Vol. 63, pp. 1-18.
34
35
36 Ameen, N., Tarhini, A., Reppel, A. and Anand, A. (2021a), "Customer experiences in the age
37 of artificial intelligence", *Computers in Human Behavior*, Vol. 114, 106548.
38
39 Ameen, N., Tarhini, A., Shah, M. and Madichie, N.O. (2021b), "Going with the flow: smart
40 shopping malls and omnichannel retailing", *Journal of Services Marketing*, Vol. 35 No.
41 3, pp. 325-348.
42
43
44 Anbumathi, R., Dorai, S., & Palaniappan, U. (2023), "Evaluating the role of technology and
45 non-technology factors influencing brand love in Online Food Delivery services",
46 *Journal of Retailing and Consumer Services*, Vol. 71, 103181.
47
48
49 Anderson, E. and Weitz. B. (1989), "Determinants of continuity in conventional industrial
50 channel dyads", *Marketing Science*, Vol. No. 4, pp. 310-323.
51
52
53 Ashraf, M., Ahmad, J., Sharif, W., Raza, A.A., Shabbir, M.S., Abbas, M. and Thurasamy, R.
54 (2020), "The role of continuous trust in usage of online product recommendations",
55 *Online Information Review*, Vol. 44 No. 4, 745-766.
56
57
58 Aureliano-Silva, L., Spers, E.E., Lodhi, R.N. and Pattanayak, M. (2022), "Who loves to
59 forgive? The mediator mechanism of service recovery between brand love, brand trust
60 and purchase intention in the context of food-delivery apps." *British Food Journal*,
Vol. 124 No. 12, pp. 4686-4700.

- 1
2
3 Asghar Ali, M., Hooi Ting, D., Ahmad-ur-Rehman, M., Zaib Abbasi, A. and Hussain, Z.
4 (2021), "Perceived service recovery justice and customer re-patronage intentions:
5 Sequential mediation", *Cogent Business & Management*, Vol. 8 No. 1, 1938352.
6
7
8 Baek, T.H. and Morimoto, M. (2012), "Stay away from me", *J. Advert.* Vol. 41, pp. 59–76.
9
10 Babin, B. J., Griffin, M. and Hair Jr, J. F. (2016), "Heresies and sacred cows in scholarly
11 marketing publications", *Journal of Business Research*, Vol. 69 No. 8, pp. 3133-3138.
12
13 Bagozzi, R. P., Yi, Y. and Phillips, L. W. (1991), "Assessing construct validity in
14 organizational research", *Administrative Science Quarterly*, Vol. 36 No. 3, pp. 421–
15 458.
16
17
18 Balapour, A., Nikkhah, H. R., & Sabherwal, R. (2020), "Mobile application security: Role of
19 perceived privacy as the predictor of security perceptions", *International Journal of*
20 *Information Management*, Vol. 52, 102063.
21
22
23 Bansal, H., Irving, G. and Taylor, S. (2004), "A three-component model of customer
24 commitment to service providers", *Journal of the Academy of Marketing Science*, Vol.
25 32 No. 3, pp. 234–250.
26
27
28 Bapat, D. and Khandelwal, R. (2023), "Antecedents and consequences of consumer hope for
29 digital payment apps services", *Journal of Services Marketing*, Vol. 37 No. 1, pp. 110-
30 127.
31
32 Beatty, S.E., Homer, P. and Kahle, L.R. (1988), "The involvement-commitment mode:
33 Theory and implications", *Journal of Business Research*, Vol. 16 No. 2, pp. 149-167.
34
35
36 Becker, J.-M., Ringle, C. M., Sarstedt, M. and Völckner, F. (2015), "How collinearity affects
37 mixture regression results", *Marketing Letters*, Vol. 26 No. 4, pp. 643–659.
38
39
40 Berry, L. L., Seiders, K. and Grewal, D. (2002), "Understanding service convenience",
41 *Journal of Marketing*, Vol. 66 No. 3, pp. 1–17.
42
43
44 Campbell, D. E. (2019), "A relational build-up model of consumer intention to self-disclose
45 personal information in e-commerce B2C relationships", *AIS Transactions on Human-*
46 *Computer Interaction*, Vol. 11 No. 1, pp. 33-53.
47
48
49 Chang, K. C., Hsu, C. L., Hsu, Y. T. and Chen, M. C. (2019), "How green marketing,
50 perceived motives and incentives influence behavioral intentions", *Journal of*
51 *Retailing and Consumer Services*, Vol. 49, pp. 336-345.
52
53
54 Chen, J. and Dibb, S. (2010), "Consumer trust in the online retail context: Exploring the
55 antecedents and consequences", *Psychology and Marketing*, Vol. 27 No. 4, pp. 323-
56 346.
57
58
59 Chesney, T., Chuah, S.-H., Dobebe, A.R. and Hoffmann, R. (2017), "Information richness and
60 trust in v-commerce: implications for services marketing", *Journal of Services*
Marketing, Vol. 31 No. 3, pp. 295-307.

- 1
2
3 Chin, W., Cheah, J.-H., Liu, Y., Ting, H., Lim, X.-J. and Cham, T. H. (2020), “Demystifying
4 the role of causal-predictive modeling using partial least squares structural equation
5 modeling in information systems research”, *Industrial Management and Data Systems*,
6 Vol. 120 No. 12, pp. 2161–2209.
7
8
9 Chin, W. W., Marcolin, B. L. and Newsted, P. R. (2003), “A partial least squares latent
10 variable modeling approach for measuring interaction effects: Results from a Monte
11 Carlo simulation study and an electronic-mail emotion/adoption study. *Information
12 Systems Research*, Vol. 14 No. 2, pp. 189–217.
13
14 Chiu, Y.-L., Chen, L.-J., Du, J. and Hsu, Y.-T. (2018), “Studying the relationship between the
15 perceived value of online group-buying websites and customer loyalty: the moderating
16 role of referral rewards”, *Journal of Business & Industrial Marketing*, Vol. 33 No. 5,
17 pp. 665-679.
18
19
20 Chung, N. and Kwon, S. J. (2009), “Effect of trust level on mobile banking satisfaction: a
21 multi-group analysis of information system success instruments”, *Behaviour and
22 Information Technology*, Vol. 28 No. 6, pp. 549–562.
23
24 Cohen, J. (1988), *Statistical power analysis for the behavioral sciences* (2nd ed.), Erlbaum,
25 Hillsdale, NJ.
26
27
28 Collier, J. E. and Sherrell, D. L. (2010), “Examining the influence of control and convenience
29 in a self-service setting”, *Journal of the Academy of Marketing Science*, Vol. 38 No. 4,
30 pp. 490-509.
31
32
33 Dai, H. and Salam, A. F. (2014), “Does service convenience matter? An empirical assessment
34 of service quality, service convenience and exchange relationship in electronic
35 mediated environment”, *Electronic Markets*, Vol. 24, pp. 269–284.
36
37
38 Das, M. and Ramalingam, M. (2023). “To praise or not to praise-Role of word of mouth in
39 food delivery apps”, *Journal of Retailing and Consumer Services*, Vol. 74, pp.103408.
40
41
42 De Kerviler, G., Demoulin, N. T. M. and Zidda, P. (2016), “Adoption of in-store mobile
43 payment: Are perceived risk and convenience the only drivers?”, *Journal of Retailing
44 and Consumer Services*, Vol. 31, pp. 334–344.
45
46
47 Expert Market Research (n.d.), “United States online food delivery market outlook”, available
48 at: [https://www.expertmarketresearch.com/reports/united-states-Online-food-delivery-](https://www.expertmarketresearch.com/reports/united-states-Online-food-delivery-market#:~:text=The%20United%20States%20online%20food,USD%2033.7%20billion%20by%202026)
49 [market#:~:text=The%20United%20States%20online%20food,USD%2033.7%20billion%20by%202026](https://www.expertmarketresearch.com/reports/united-states-Online-food-delivery-market#:~:text=The%20United%20States%20online%20food,USD%2033.7%20billion%20by%202026) (accessed October 6, 2023)
50
51
52
53 Fang, Y. H. and Li, C. Y. (2020), “Leveraging sociability for trust building on social
54 commerce sites”, *Electronic Commerce Research and Applications*, Vol. 40, 100907.
55
56
57 Ferrin, D. L. and Dirks, K. T. (2003), “The use of rewards to increase and decrease trust:
58 Mediating processes and differential effects”, *Organization Science*, Vol. 14 No. 1, pp.
59 18-31.
60

- 1
2
3 Flavian, C. and Cuinaliu, M. (2006), "Consumer trust, perceived security and privacy policy:
4 three basic elements of loyalty to a web site", *Industrial Management and Data*
5 *Systems*, Vol. 106 No. 5, pp. 601–620.
6
7
8 Fornell, C. and Larcker, D. F. (1981), "Evaluating structural equation models with
9 unobservable variables and measurement error", *Journal of Marketing Research*, Vol.
10 18 No. 1, pp. 39–50.
11
12 Fullerton, G. (2011), "Creating advocates: The roles of satisfaction, trust and commitment",
13 *Journal of Retailing and Consumer Services*, Vol. 18 No. 1, pp. 92-100.
14
15 Garry, T. and Harwood, T. (2019), "Trust and its predictors within a cyber-physical system
16 context", *Journal of Services Marketing*, Vol. 33 No. 4, pp. 407-428.
17
18
19 Geisser, S. (1974), "A predictive approach to the random effect model", *Biometrika*, Vol. 61
20 No. 1, pp. 101–107.
21
22
23 Gong, T. and Yi, Y. (2021), "A review of customer citizenship behaviors in the service
24 context", *The Service Industries Journal*, Vol. 41 No. 3-4, pp. 169-199.
25
26 Greenwood, M. and Buren, H. (2010), "Trust and stakeholder theory: trustworthiness in the
27 organization-stakeholder relationship", *Journal of Business Ethics*, Vol. 95, pp. 425-
28 38.
29
30
31 Groth, M., Mertens, D. P. and Murphy, R. O. (2004), "Customers as good solidiers:
32 Extending organizational citizenship behavior research to the customer domain",
33 Turnipseed, D.L. (Ed.), *Handbook of organizational citizenship behavior*. Nova
34 Science Publishers, Hauppauge, NY, pp. 411–430
35
36
37 Gruen, T., Summers, J. and Acito, F. (2000), "Relationship marketing activities, commitment
38 and membership behaviors in professional associations", *Journal of Marketing* Vol.
39 No. 3, pp. 34–49.
40
41
42 Gundlach, G., Achrol, R. and Mentzer, J. (1995), "The structure of commitment in exchange",
43 *Journal of Marketing*, Vol. 59 No. 1, pp. 78–92.
44
45
46 Hair, J. F., Risher, J. J., Sarstedt, M. and Ringle, C. M. (2019), "When to use and how to
47 report the results of PLS-SEM", *European Business Review*, Vol. 31 No. 1, pp. 2-24.
48
49
50 Harris, M. A., Brookshire, R. and Chin, A. G. (2016), "Identifying factors influencing
51 consumers' intent to install mobile applications", *International Journal of Information*
52 *Management*, Vol. 36 No. 3, pp. 441-450.
53
54
55 Havitz, M.E. and Mannell, R.C. (2005), "Enduring involvement, situational involvement, and
56 flow in leisure and non-leisure activities", *Journal of Leisure Research*, Vol. 37 No. 2,
57 pp. 152-177.
58
59
60 Henseler, J., Ringle, C. M. and Sarstedt, M. (2015), "A new criterion for assessing
discriminant validity in variance-based structural equation modeling", *Journal of the*
Academy of Marketing Science, Vol. 43 No. 1, pp. 115–135.

- 1
2
3 Hsia, T. L., Wu, J. H., Xu, X., Li, Q., Peng, L. and Robinson, S. (2020), "Omnichannel
4 retailing: The role of situational involvement in facilitating consumer experiences",
5 *Information and Management*, Vol. 57 No. 8, 103390.
6
7
8 Homburg, C. and Ukrainets, K. (2021), "Saving money or losing face? An international study
9 on social stigmatization in discount stores", *Psychology and Marketing*, Vol. 38 No. 5,
10 pp. 908-932.
11
12 Hu, M., Xu, X., Li, X. and Che, T. (2020), "Managing patients' no-show behaviour to
13 improve the sustainability of hospital appointment systems: Exploring the conscious
14 and unconscious determinants of no-show behaviour", *Journal of Cleaner Production*,
15 Vol. 269, 122318.
16
17
18 Hwang, J., Kim, J. J. and Lee, K. W. (2021), "Investigating consumer innovativeness in the
19 context of drone food delivery services: Its impact on attitude and behavioral
20 intentions", *Technological Forecasting and Social Change*, Vol. 163, 120433.
21
22
23 Im, H. and Ha, Y. (2011), "The effect of perceptual fluency and enduring involvement on
24 situational involvement in an online apparel shopping context", *Journal of Fashion
25 Marketing and Management*, Vol. 15 No. 3, pp. 345-362.
26
27
28 Indiani, N.L.P. and Fahik, G.A. (2020), "Conversion of online purchase intention into actual
29 purchase: the moderating role of transaction security and convenience", *Business:
30 Theory and Practice*, Vol. 21 No. 1, pp.18-29.
31
32 Inoue, Y., Funk, D.C. and McDonald, H. (2017), "Predicting behavioral loyalty through
33 corporate social responsibility: The mediating role of involvement and commitment",
34 *Journal of Business Research*, Vol. 75, pp. 46-56.
35
36
37 Jai, T. M. C. and King, N. J. (2016), "Privacy versus reward: Do loyalty programs increase
38 consumers' willingness to share personal information with third-party advertisers and
39 data brokers?" *Journal of Retailing and Consumer Services*, Vol. 28, pp. 296-303.
40
41
42 Kahn, B.K., Strong, D.M. and Wang, R.Y. (2002), "Information quality benchmarks: product
43 and service performance", *Communications of the ACM*, Vol. 45 No. 4, pp. 184-192.
44
45
46 Kang, J., Tang, L. R. and Fiore, A. M. (2015), "Restaurant brand pages on Facebook: Do
47 active member participation and monetary sales promotions matter?", *International
48 Journal of Contemporary Hospitality Management*, Vol. 27 No. 7, pp. 1662-1684.
49
50
51 Keusch, F. (2015), "Why do people participate in web surveys? Applying survey participation
52 theory to internet survey data collection", *Management Review Quarterly*, Vol. 65 No.
53 3, pp. 183-216.
54
55
56 Khan, I., Hollebeek, L. D., Fatma, M., Islam, J. U. and Rahman, Z. (2020), "Brand
57 engagement and experience in online services", *Journal of Services Marketing*, Vol.
58 34 No. 2, pp. 163-175.
59
60

- 1
2
3 Khan, M. A. and Khan, S. (2018), "Service convenience and post-purchase behaviour of
4 online buyers: An empirical study", *Journal of Service Science Research*, Vol. 10, pp.
5 167–18.
6
7
8 Khare, A., Sarkar, S. and Patel, S.S. (2019), "Influence of culture, price perception and mall
9 promotions on Indian consumers' commitment towards malls", *International Journal*
10 *of Retail & Distribution Management*, Vol. 47 No. 10, pp. 1093-1124
11
12 Kim, C., Mirusmonov, M. and Lee, I. (2010), "An empirical examination of factors
13 influencing the intention to use mobile payment", *Computers in Human Behavior*, Vol
14 26 No. 3, pp. 310–322.
15
16
17 Kim, J., Jin, B. and Swinney, J. L. (2009), "The role of etail quality, e-satisfaction and e-trust
18 in online loyalty development process", *Journal of retailing and Consumer*
19 *services*, Vol. 16 No. 4, pp. 239-247.
20
21
22 Kim, M.-J., Chung, N. and Lee, C.-K. (2011), "The effect of perceived trust on electronic
23 commerce: Shopping online for tourism products and services in South Korea",
24 *Tourism Management*, Vol. 32 No. 2, pp. 256–265.
25
26
27 Kim, S.-H. and Lee, S.(A). (2017), "Promoting customers' involvement with service brands:
28 evidence from coffee shop customers", *Journal of Services Marketing*, Vol. 31 No. 7,
29 pp. 733-744.
30
31
32 Kim, Y. and Peterson, R. A. (2017), "A Meta-analysis of Online Trust Relationships in E-
33 commerce", *Journal of Interactive Marketing*, Vol. 38 No. 1, pp. 44-54.
34
35
36 Kline, R. B. (2015). *Principles and Practice of Structural Equation Modeling* (4th ed.). New
37 York: Guilford Press.
38
39
40 Kock, N. and Lynn, G. (2012), "Lateral collinearity and misleading results in variance-based
41 SEM: An illustration and recommendations", *Journal of the Association for*
42 *Information Systems*, Vol. 13 No. 7.
43
44
45 Kong, Y., Wang, Y., Hajli, S. and Featherman, M. (2020), "In sharing economy we trust:
46 Examining the effect of social and technical enablers on millennials' trust in sharing
47 commerce", *Computers in Human Behavior*, Vol. 108, 105993.
48
49
50 Kumar, S. and Gupta, A. (2021), "Factors Affecting Adoption of M–Wallets: Moderating role
51 of Financial Incentives", *Ramanujan International Journal of Business and Research*,
52 Vol. 6, pp. 132-143.
53
54
55 Kuo, N.T., Chang, K.C., Chen, M.C. and Hsu, C.L. (2012), "Investigating the effect of
56 service quality on customer post-purchasing behaviors in the hotel sector: The
57 moderating role of service convenience, *Journal of Quality Assurance in Hospitality*
58 *& Tourism*, Vol. 13 No. 3, pp. 212-234.
59
60
61 Lee, W.S., Song, M., Moon, J. and Tang, R. (2022), "Application of the technology
62 acceptance model to food delivery apps", *British Food Journal*, Vol. 125 No. 1, pp.
63 49-64.

- 1
2
3 Liu, Y., Li, H. and Hu, F. (2013), "Website attributes in urging online impulse purchase: an
4 empirical investigation on consumer perceptions", *Decision Support Systems*, Vol. 55
5 No. 3, pp. 829-837.
6
7
8 Liu, Y., Chung, H. F., Zhang, Z. and Wu, M. (2023), "The dark side of mobile apps: when
9 and how technical security matters for in-app purchases?", *Asia Pacific Journal of*
10 *Marketing and Logistics*, Vol. 35 No. 12, pp. 2965-2982.
11
12 Luk, S.T.K., Liu, B.S.C. and Li, E.L.Y. (2018), "Effect of multilevel trust on effort-in-use and
13 service co-design behaviour", *Journal of Services Marketing*, Vol. 32 No. 4, pp. 505-
14 519.
15
16 MacKenzie, S. B. and Podsakoff, P. M. (2013), "Common method bias in marketing: Causes,
17 mechanisms, and procedural remedies.", *Journal of Retailing*, Vol. 88 No. 4, pp. 542-
18 555.
19
20
21 Malodia, S., Ferraris, A., Sakashita, M., Dhir, A. and Gavurova, B. (2023), "Can Alexa serve
22 customers better? AI-driven voice assistant service interactions", *Journal of Services*
23 *Marketing*, Vol. 37 No. 1, pp. 25-39.
24
25
26 Morgan, R.M. and Hunt, S.D. (1994), "The commitment-trust theory of relationship
27 marketing", *Journal of Marketing*, Vol. 58 No. 3, pp. 20-38.
28
29
30 Mou, J., Zhu, W. and Benyoucef, M. (2020), "Impact of product description and involvement
31 on purchase intention in cross-border e-commerce", *Industrial Management and Data*
32 *Systems*, Vol. 120 No. 3, pp. 567-586.
33
34
35 Mukherjee, A. and Nath, P. (2007), "Role of electronic trust in online retailing: A re-
36 examination of the commitment-trust theory", *European Journal of Marketing*, Vol.
37 41 No. 9/10, pp.1173-1202.
38
39
40 Namkung, Y. and Jang, S. (2017), "Are consumers willing to pay more for green practices at
41 restaurants?", *Journal of Hospitality and Tourism Research*, Vol. 41 No. 3, pp. 329-
42 356.
43
44
45 Natarajan, T., Veera Raghavan, D. R. and Jayapal, J. (2023), "How does channel integration
46 quality promote omnichannel customer citizenship behavior? The moderating role of
47 the number of channels used and gender", *Kybernetes*, ahead-of-print.
48
49
50 Negi, A., Choudhury, A., Chanana, V. and Bansal, S. (2023), "Factors influencing the rapid
51 growth of food delivery apps among the youth in India", *International Research*
52 *Journal of Modernization in Engineering Technology and Science*, Vol. 5 No. 4, p.
53 538.
54
55
56 Osakwe, C. N., Okeke, T. C. and Kwarteng, M. A. (2022), "Trust building in mobile money
57 and its outcomes", *European Business Review*, Vol. 34 No. 2, pp. 244-262.
58
59
60 Ong, M. H. A., Yusri, M. Y., & Ibrahim, N. S. (2023), "Use and behavioural intention using
digital payment systems among rural residents: Extending the UTAUT-2 model",
Technology in Society, Vol. 74, 102305.

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56
57
58
59
60
- Podsakoff, N. P., Podsakoff, P. M., MacKenzie, S. B. and Klinger, R. L. (2013), "Are we really measuring what we say we're measuring? Using video techniques to supplement traditional construct validation procedures", *Journal of Applied Psychology*, Vol. 98 No. 1, pp. 99-113.
- Ponder, N., Bugg Holloway, B. and Hansen, J.D. (2016), "The mediating effects of customers' intimacy perceptions on the trust-commitment relationship", *Journal of Services Marketing*, Vol. 30 No. 1, pp. 75-87.
- Poushneh, A. (2018), "Augmented reality in retail: A trade-off between user's control of access to personal information and augmentation quality", *Journal of Retailing and Consumer Services*, Vol. 41, pp. 169-176.
- Quan, W., Moon, H., Kim, S. S. and Han, H. (2023), "Mobile, traditional, and cryptocurrency payments influence consumer trust, attitude, and destination choice: Chinese versus Koreans", *International Journal of Hospitality Management*, Vol. 108, 103363.
- Raza, A., Asif, M. and Akram, M. (2023), "Give your hunger a new option: Understanding consumers' continuous intention to use online food delivery apps using trust transfer theory", *International Journal of Consumer Studies*, Vol. 47 No. 2, pp. 474-495.
- Rather, R. A., Hollebeek, L. D. and Rasoolimanesh, S. M. (2022), "First-time versus repeat tourism customer engagement, experience, and value cocreation: An empirical investigation", *Journal of Travel Research*, Vol. 61 No. 3, pp. 549-564.
- Reichheld, F.F. (2003), "The one number you need to grow", *Harvard Business Review*, pp. 1-11, available at: <https://hbr.org/2003/12/the-one-number-you-need-to-grow> (accessed June 28, 2023).
- Rego, A., Sousa, F., Marques, C. and Pina e Cunha, M. (2014), "Hope and positive affect mediating the authentic leadership and creativity relationship", *Journal of Business Research*, Vol. 67 No. 2, pp. 200-210.
- Rehman, U., Abbasi, A. Z., Ting, D. H., Hassan, M. and Khair, N. (2023), "Exploring the Impact of Gamified Experiences on User Engagement in Fitness Apps: A GAMEFULQUEST Perspective", *IEEE Transactions on Engineering Management*, Vol. 71, pp. 3613-3628.
- Rothschild, M.L. and Houston, M.J. (1980), "Individual differences in voting behavior: Further investigations of involvement", Olson, J.C. (Ed.), *NA - Advances in Consumer Research: Vol 07*, pp. 655-658.
- Roy, S. K., Shekhar, V., Lassar, W. M. and Chen, T. (2018), "Customer engagement behaviors: The role of service convenience, fairness and quality", *Journal of Retailing and Consumer Services*, Vol. 44, pp. 293-304.
- Sadiq, M., Bharti, K., Adil, M. and Singh, R. (2021), "Why do consumers buy green apparel? The role of dispositional traits, environmental orientation, environmental knowledge,

- and monetary incentive”, *Journal of Retailing and Consumer Services*, Vol. 62, 102643.
- Sanchez-Franco, M.J. (2009), “The moderating effects of involvement on the relationships between satisfaction, trust and commitment in e-Banking”, *Journal of Interactive Marketing*, Vol. 23 No. 3, pp. 247-258.
- Sarstedt, M. and Cheah, J.-H. (2019), “Partial least squares structural equation modeling using SmartPLS: a software review”, *Journal of Marketing Analytics*, Vol. 7 No. 3, pp. 196–202.
- Sarstedt, M., Hair, J. F., Cheah, J.-H., Becker, J.-M. and Ringle, C. M. (2019), “How to specify, estimate, and validate higher-order constructs in PLS-SEM”, *Australasian Marketing Journal (AMJ)*, Vol. 27 No. 3, pp. 197–211.
- Seiders, K., Voss, G. B., Grewal, D. and Godfrey, A. L. (2005), “Do satisfied customers buy more? Examining moderating influences in a retailing context”, *Journal of Marketing*, Vol. 69 No. 4, pp. 26-43.
- Sekhon, H., Roy, S., Shergill, G. and Pritchard, A. (2013), “Modelling trust in service relationships: a transnational perspective”, *Journal of Services Marketing*, Vol. 27 No. 1, pp. 76-86.
- Shah, A.M., Yan, X. and Qayyum, A. (2021), “Adoption of mobile food ordering apps for O2O food delivery services during the COVID-19 outbreak”, *British Food Journal*, Vol. 124 No. 11, pp. 3368-3395.
- Shankar, A., Jebarajakirthy, C., Nayal, P., Maseeh, H. I., Kumar, A., & Sivapalan, A. (2022), “Online food delivery: a systematic synthesis of literature and a framework development”, *International Journal of Hospitality Management*, Vol. 104, 103240.
- Sharma, P. N., Sarstedt, M., Ringle, C. M., Cheah, J. H., Herfurth, A., & Hair, J. F. (2024), “A framework for enhancing the replicability of behavioral MIS research using prediction oriented techniques”, *International Journal of Information Management*, Vol. 78, 102805.
- Sharma, R., Singh, G. and Pratt, S. (2022), “Exploring travel envy and social return in domestic travel: A cross-generational analysis”, *Journal of Travel and Tourism Marketing*, Vol 39 No. 1, pp. 58-72.
- Shuhaiber, A., Alkarbi, W. and Almansoori, S. (2023), “Trust in Smart Homes: The Power of Social Influences and Perceived Risks”, Nagar, A.K., Singh Jat, D., Mishra, D.K., Joshi, A. (Eds.) *Intelligent Sustainable Systems. Lecture Notes in Networks and Systems*, Vol.578. Springer, Singapore.
- Slepchuk, A.N., Milne, G.R. and Swani, K. (2022), “Overcoming privacy concerns in consumers’ use of health information technologies: A justice framework”, *Journal of Business Research*, Vol. 141, pp. 782-793.

- 1
2
3 Smink, A. R., Frowijn, S., van Reijmersdal, E. A., van Noort, G. and Neijens, P. C. (2019),
4 “Try online before you buy: How does shopping with augmented reality affect brand
5 responses and personal data disclosure”, *Electronic Commerce Research and*
6 *Applications*, Vol. 35, 100854.
7
8
9 Song, C. S. and Kim, Y. K. (2021), “Predictors of consumers’ willingness to share personal
10 information with fashion sales robots”, *Journal of Retailing and Consumer Services*,
11 Vol. 63, 102727.
12
13 Song, H., Ruan, W. J. and Jeon, Y. J. J. (2021). “An integrated approach to the purchase
14 decision making process of food-delivery apps: Focusing on the TAM and AIDA
15 models”, *International Journal of Hospitality Management*, Vol. 95, 102943.
16
17
18 Stone, M. (1974), “Cross-validation and multinomial prediction”, *Biometrika*, Vol. 61 No. 3,
19 pp. 509–515.
20
21
22 Streukens, S. and Leroi-Werelds, S. (2016), “Bootstrapping and PLS-SEM: A step-by-step
23 guide to get more out of your bootstrap results”, *European Management Journal*, Vol.
24 *34 No. 6*, pp. 618–632.
25
26 Su, D. N., Nguyen, N. A. N., Nguyen, L. N. T., Luu, T. T. and Nguyen-Phuoc, D. Q. (2022),
27 “Modeling consumers’ trust in mobile food delivery apps: perspectives of technology
28 acceptance model, mobile service quality and personalization-privacy theory”,
29 *Journal of Hospitality Marketing & Management*, Vol. 31 No. 5, 535-569.
30
31
32 Suh, A., Cheung, C.M.K., Ahuja, M. and Wagner, C. (2017), “Gamification in the workplace:
33 The central role of the aesthetic experience,” *Journal of Management Information*
34 *Systems*, Vol. 34 No. 1, pp. 268-305.
35
36
37 Sundaram, D. S., Mitra, K. and Webster, C. (1998), Word-of-Mouth Communications: A
38 Motivational Analysis”, Alba, J.W. and Hutchinson, J.W. (Eds.), *NA—Advances in*
39 *Consumer Research* (Vol. 25, pp. 527-531). Association for Consumer Research,
40 Provo, UT. <http://acrwebsite.org/volumes/8208/volumes/v25/NA-25>
41
42
43 Temperini, V., Limbu, Y. and Jayachandran, C. (2017), « Consumers’ trust in food quality
44 and willingness to pay more for national parks’ brands: Preliminary evidence from
45 Italy”, *Journal of International Food and Agribusiness Marketing*, Vol. 29 No. 2, pp.
46 120-138.
47
48
49 Tran, T.P., Guzman, F., Paswan, A.K. and Blankson, C. (2020), “National versus private
50 brand: A regulatory focus perspective”, *Journal of Retailing and Consumer Services*,
51 Vol. 57, pp. 1-15.
52
53
54 Troise, C., O’Driscoll, A., Tani, M. and Prisco, A. (2021), “Online food delivery services and
55 behavioural intention – a test of an integrated TAM and TPB framework”, *British*
56 *Food Journal*, Vol. 123 No. 2, pp. 664-683.
57
58
59 Tsai, P. H., Chen, C. J., Hsiao, W. H. and Lin, C. T. (2023), “Factors influencing the
60 consumers’ behavioural intention to use online food delivery service: Empirical

- evidence from Taiwan”, *Journal of Retailing and Consumer Services*, Vol. 73, 103329.
- Khan, S. and Wahab, A. (2023), “Engaging customers through satisfaction; does social media marketing and perceived innovativeness really matter? A time-lagged study in the hospitality industry”, *Journal of Hospitality and Tourism Insights*, Vol. ahead-of-print No. ahead-of-print.
- Wallace, E., Torres, P., Augusto, M. and Stefuryn, M. (2022), “Do brand relationships on social media motivate young consumers’ value co-creation and willingness to pay? The role of brand love”, *Journal of Product and Brand Management*, Vol. 31 No. 2, pp. 189-205.
- Wang, X., Tajvidi, M., Lin, X. and Hajli, N. (2020), “Towards an Ethical and Trustworthy Social Commerce Community for Brand Value Co-creation: A trust-Commitment Perspective”, *J Bus Ethics*, Vol. 167, pp. 137–152.
- Wang, Y., Asaad, Y. and Filieri, R. (2020), “What makes hosts trust Airbnb? Antecedents of hosts’ trust toward Airbnb and its impact on continuance intention”, *Journal of Travel Research*, Vol. 59 No. 4, pp. 686–703.
- Wang, X., Zheng, J., Tang, L. R. and Luo, Y. (2023), “Recommend or not? The influence of emotions on passengers’ intention of airline recommendation during COVID-19”, *Tourism Management*, Vol. 95, 104675.
- Wen, H., Pookulangara, S. and Josiam, B.M. (2022), “A comprehensive examination of consumers' intentions to use food delivery apps”, *British Food Journal*, Vol. 124 No. 5, pp. 1737-1754.
- Wong, A. and Wong, J. (2024), "Service robot acceptance in museums: an empirical study using the service robot acceptance model (sRAM)", *Journal of Services Marketing*, Vol. ahead-of-print No. ahead-of-print. <https://doi.org/10.1108/JSM-05-2023-0183>
- Wottrich, V.M., van Reijmersdal, E.A. and Smit, E.G. (2018), “The privacy trade-off for mobile app downloads: The roles of app value, intrusiveness, and privacy concerns”, *Decision Support Systems*, Vol. 106, pp. 44–52.
- Yenisey, M. M., Ozok, A. A. and Salvendy, G. (2005), “Perceived security determinants in e-commerce among Turkish university students” *Behaviour and Information Technology*, Vol. 24 No. 4, pp. 259–274.
- Yeo, V. C. S., Goh, S. K., & Rezaei, S. (2017), “Consumer experiences, attitude and behavioral intention toward online food delivery (OFD) services”, *Journal of Retailing and Consumer Services*, Vol. 35, 150-162.
- Yi, Y. and Gong, T. (2013), “Customer value co-creation behavior: Scale development and validation”, *Journal of Business Research*, Vol. 66 No. 9, pp. 1279–1284.

Yue, L., Liu, Y. and Wei, X. (2017), "Influence of online product presentation on consumers' trust in organic food: A mediated moderation model", *British Food Journal*, Vol. 119 No. 12, pp. 2724-2739.

Zboja, J.J. and Voorhees, C.M. (2006), "The impact of brand trust and satisfaction on retailer repurchase intentions", *Journal of Services Marketing*, Vol. 20 No. 6, pp. 381-390.

Appendix A: Measurement items

Construct	Items	Source
Cognitive involvement (CIT)	Ordering food using the app is a very important decision (CIT1). Ordering food with the delivery app requires a lot of thought. (CIT2). There is a lot to lose if you choose the wrong menus and/or food items with the delivery app. (CIT3). Food ordering using my delivery app is based mainly on functional facts (Search, browse, view, etc.). (CIT4).	Mou et al. (2019)
Enduring involvement (ENI)	The pleasure of food ordering using the delivery app is important (ENI1). The pleasure of ordering food with the delivery app matters a lot (ENI2). The pleasure of being able to order for food using the delivery app means a lot (ENI3).	Mou et al. (2019)
Situational involvement (SIV)	I am really enjoying buying food/meals online with the delivery app (SIV1). I am confident that ordering food/meals using the delivery app is the right activity right now (SIV2). Ordering food/meals with the delivery app gives a glimpse of the type of person I really am (SIV3). I will be annoyed if food ordering with the delivery app proves to be a poor activity (SIV4).	Mou et al. (2019)
Continuance commitment (CCM)	It would be very hard for me to switch away from my currently installed food delivery app right now even if I wanted to (CCM1). Switching away from my current delivery app could be disruptive to me (CCM2). It would be too costly for me to switch from the current delivery app right now (CCM3).	Fullerton, G. (2011)
Affective commitment (ACM)	I feel emotionally attached to the delivery app (ACM1) The delivery app has a great deal of personal meaning for me (ACM2) I feel a strong sense of identification with the delivery app (ACM3)	Fullerton (2011)
Perceived convenience (COV)	Using the food delivery app would allow me to save time. Using the food delivery app would be less time consuming compared to other delivery ordering methods.	De Kerviler et al. (2016)

Construct	Items	Source
	Using the food delivery app is convenient.	
Perceived busyness (BUS)	I am a busy person I have less time on my hands than the average person I feel like I am rushing too often I have very little free time	Ertz et al. (2016)
Menu description (MEU)	The menu descriptions in the app are easy to understand I am able to comprehend the descriptions of the menus that are often displayed in the app The menu descriptions are hard to understand	Mou et al. (2019)
Willingness to pay more (PAY)	I am likely to pay more for using food delivery app services It is acceptable to pay more for app-based food delivery services. I am likely to spend extra in order to use app-based food delivery services	Hwang et al. (2021)
Perceived security (SEC)	Using credit/debit cards to make purchases using the FDA is safe. My privacy would be guaranteed with FDA. Companies using FDA can be trusted to safeguard my personal information	Kim et al. (2011)
Willingness to provide feedback (FED)	If I have a useful idea on how to improve the food delivery company's service, I will let them know about it. When I experience any problem with the food/menu bought using the food delivery app, I will let the company know about it. When I receive good service from the food delivery company, I will comment about it.	Yi & Gong (2013)
Willingness to share personal data	To be able to use the food delivery app in the future, I am willing to give the company my name To be able to use the food delivery app in the future, I am willing to provide the company with my physical address and e-mail I am willing to provide the company with information about my hobbies I am willing to provide the company with my date of birth I am willing to give my phone number to the company I am willing to provide my purchase history of last month to the company	Smink et al. (2019)
Trust in app (product) recommendations (TRU)	I think the recommendations in the food delivery app are sincere I think the recommendations in the food delivery app are honest The food delivery app does not make false recommendations I think that the recommendations in the food delivery app are trustworthy	Fang & Li (2020)

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Construct	Items	Source
Rewards and incentives (RIC)	<p>The service provider provides me with discounts for using the FDA</p> <p>The beauty of using my current FDA is that I can earn points and then use it to make purchases</p> <p>My current FDA allows me to easily take advantage of exclusive menu offers</p> <p>I often collect points for every dollar spent, which can be exchanged for food and drinks</p> <p>I often take advantage of discounts on the FDA</p>	Self-developed for the study with feedback from hospitality practitioners and academics

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