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Research Article

Online Buying Dynamics: Exploring the Nexus of Internal and External Drivers on Online Impulsive Buying Behavior and Post-Purchase Cognitive Dissonance on E-Consumers

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Abstract

This study presents an integrated model. The study model considers not just the factors that lead to online impulse buys, but also the emotions felt by buyers after making a purchase. This development is a direct result of the rising popularity of internet purchasing, especially in developing nations. However, in developing economies, research on this area is sparse. This study aims to examine the factors that influence impulsive purchasing behavior among Egyptian E-consumers, including both internal factors like social media addiction and fear of missing out (FOMO), and external ones like promotional activities and online visual merchandising. Additionally, the study looks at how impulsive online shopping affects the cognitive dissonance that follows a purchase. On the basis of data collected from Egyptian consumers who bought online and filled out a self-administered online questionnaire, the hypothesized model was put to the test through the use of structural equation modelling (SEM). According to the findings, online impulsive buying behavior was significantly influenced in a positive way by factors such as social media addiction, FOMO, and promotional activities. However, it was discovered that online visual merchandising didn't have a substantial impact on the impulsive purchasing behavior that occurs online. Additionally, online impulsive buying behavior had a direct and considerable impact on the cognitive dissonance that occurs after a purchase has been made. This study aimed to elucidate online impulsive purchasing behavior within Egyptian society. Furthermore, it offered insights for scholars and marketers to enhance their comprehension of consumer behavior.

Keywords: Drivers of online impulsive buying, online impulsive buying behavior, post-purchase cognitive dissonance, E-consumers.

Introduction

Online shopping in emerging markets in developing countries has experienced a recent surge, with a notable growth in the number of online shopping platforms and the accessibility of international brands (Sarwar et al., 2024). The internet is emerging as a prominent shopping platform, and experiencing substantial growth in comparison to traditional buying methods (Cavazos-Arroyo and Máynez-Guaderrama, 2022; Husain et al., 2022; Kumar et al., 2021). Online shopping has become increasingly popular in recent years due to its competitive pricing, wide range of products, convenience, time efficiency, ability to access customer reviews, and availability of rare items. This phenomenon has generated significant interest among researchers and marketers who seek to gain a deeper understanding of the determinants that impact consumers' online buying behaviors (Chetioui et al., 2021). The expansion of ecommerce has also led to the emergence of impulsive buying (IB) in the context of online buying (Akram et al., 2018). IB is characterized by unplanned and rapid purchasing behavior driven by certain emotional states such as delight, desire, or other strong urges to buy (Badgaiyan et al., 2016). Consumers engage in impulsive buying online than shopping in physical stores because consumers are not burdened by inconvenient shop locations, limited working hours, and the time required to make decisions (Chan et al., 2017; Liu et al., 2019). With online shopping, they can acquire items with just a single click. Park and Yoon (2017) found that consumers engage in purchasing for several reasons beyond practical purposes, such as seeking alleviation, pursuing enjoyment, and expressing their self-image or identity.

The goal of marketers is to expand their online business by transforming customers into users who make more regular and consistent purchases (Lazim et al., 2020). Moreover, customer satisfaction and loyalty are essential factors influencing sales, including the impulsive buying behavior of customers (Lin et al., 2023). Although the internet enables consumers to access a wide variety of products and services, it can lead to post-purchase cognitive dissonance (Chetioui and El Bouzidi, 2023). Customers experience post-purchase discomfort when their initial expectations do not meet the actual performance of the goods (Chetioui and El Bouzidi, 2023; Imam, 2013). This might potentially lead to an increased number of

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complaints, and may even result in adverse consequences for particular brands, such as the dissemination of negative word-of-mouth, cautioning others, brand switching, or even legal action against the corporation (Lazim et al., 2020). Lake (2009) argued that cognitive dissonance could be expressed as regret or buyer's remorse. Customers experience regret when they believe that their purchasing choices were incorrect (Gabler et al., 2017). When consumers experience cognitive dissonance and are unable to find any justifications for their decision, they may unknowingly resort to the fundamental attribution error, and attribute the fault to the company that provides the product (Robbins and Judge, 2009).

Although there have been extensive studies on online shopping perceptions and trends in developed nations, there is a lack of research on this subject in the emerging markets (Chetioui and El Bouzidi, 2023). Although researchers focused largely on studying the effects of website characteristics on IB, they ignored investigating how customers feel after purchasing (Chen et al., 2023). Furthermore, Lavuri and Thaichon (2023) examined how impulsive buying tendency (IBT) acts as a mediator between extrinsic factors and compulsive buying. They also suggest the need for additional research on personality factors, psychological factors, visual merchandising factors, and impulsive buying behavior. Additionally, Singh et al. (2023) recommended studying the impact of promotion, and firmrelated factors on IB behavior in future research. This gap motivates this study to develop an integrated model to examine the effect of internal stimuli (fear of missing out (FOMO), and social addiction), and external (promotional activities, and online visual merchandising) on online impulse buying behavior. Furthermore, this study aims to investigate the relationship between online impulsive buying behavior and post-purchase cognitive dissonance among online customers in the Egyptian market.

Theoretical Framework

Impulsive buying (IB)

Consumers exhibit impulsive buying when they unintentionally acquire something without deliberate thought or planning (Serfas et al., 2014). Moreover, spontaneous and unforeseen purchases are often accompanied with cognitive and emotional responses (Rook, 1987). There are numerous factors influencing IB. The four main elements that significantly contribute to IB are

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exterior cues, internal stimuli, situational and product-related factors, and demographic and socio-cultural factors (Muruganantham and Bhakat, 2013). External stimuli refer to marketing activities employed by marketers to attract customers and encourage them to make a purchase (Yoon and Faber, 2000). On the other hand, internal stimuli are aspects of an individual's personality (Luo et al., 2018).

The impulsive buying theory primarily addresses the factors that motivate buyers to make impulsive purchases. According to the theory, which was initially put forth by Stern (1962), a number of outside factors might influence and even encourage people to make IB. Additionally, the theory claims that there is no one factor that determines whether or not consumers engage in IB behavior; rather, there are a variety of circumstances and events that might cause individuals to make purchases on the spur of the moment (Naeem, 2021). It also highlighted that employ marketers various promotional incentives that might enhance customer involvement, perhaps resulting in purchases exceeding their initial intentions (Dutta and Mandal, 2018; Iyer et al., 2020). As noted by Dutta and Mandal (2018), both Maslow's need theory and McGregor's motivation theory assumed that customers make well-considered purchases; however, impulsive buying theory challenges this premise (Chetioui and El Bouzidi, 2023).

Internal drivers of online impulsive buying behavior

a. Fear of missing out (FOMO)

Przybylski et al. (2013) defined the fear of missing out as a persistent anxiety that others may be enjoying fulfilling experiences from which one is excluded. The fundamental idea is consumers experience psychological distress when they are socially isolated. As a result, they have an overwhelming need to conform to the actions of others to alleviate that worry (Elhai et al., 2016). Psychologists typically regard FOMO as an enduring psychological phenomenon that is unaffected by specific contextual factors (Good and Hyman, 2020). However, advertisers have extensively utilized it by employing commercial FOMO-laden appeals, which aim to encourage customers to buy products (Hodkinson, 2016). The feeling of "missing out" can significantly influence a person's decision to make a purchase while shopping online (Abel et al., 2016; Chetioui and El Bouzidi, 2023; Good and Hyman, 2020; Good

and Hyman, 2021). Consumers may overcome their initial reluctance and hesitancy by taking direct action, leading to immediate and impulsive purchases (Hodkinson, 2019). Based on the aforementioned studies, the present study proposes the following hypothesis:

H1: FOMO is positively related to online impulsive buying behavior.

b. Social media addiction

According to Shaffer et al. (2004), frequent exposure to an activity or drug that has addictive properties can raise the chances of developing an addiction to that particular activity or substance. Engaging in extensive social media usage heightens the likelihood of encountering and brand-related content, advertisements which further increases the chances of interacting with preferred brands or making purchases of brands and items (Nikolinakou et al., 2024). According to Shaffer et al. (2004), addiction can be understood as a syndrome resulting from a common psychological and neurobiological mechanism that manifests in various addictive behaviors such as alcohol, gaming, gambling, and social media addiction. Indications of an addiction syndrome suggest that individuals are more likely to persist in addictive behaviors and also to establish and sustain additional addictive behaviors concurrently (Nikolinakou et al., 2024). Individuals who have a strong dependence on social media may be additionally stimulated by businesses and advertisements on social media platforms, leading to the development of an impulsive shopping addiction (Mundel et al., 2023; Nikolinakou et al., 2024). Therefore, this study proposes the following hypothesis:

H2: Social media addiction is positively related to online impulsive buying behavior.

External drivers of online impulsive buying behavior

a. Promotional activities

According to Haugh (1983), a promotion is a strategy to boost sales by enticing customers to buy a product through discount or added value. The attractiveness of a sale makes people more likely to buy an item they don't actually need because it seems like a good deal (Zhao et al., 2022). Moreover, online stores used sales and other promotional offers (e.g., buy-one-get-one-free, lowering prices, providing free shipping, price reductions on new products, making payments easy (digital)) as a common tactic to attract customers and encourage them to

purchase online (Dawson and Kim, 2010; Gordon-Hecker et al., 2020; Luo et al., 2021; Verma and Singh, 2019). Previous studies found a significant positive relationship between sales promotion and online IB (Goel et al., 2022; Hasim et al., 2018; Longdong and Pangemanan, 2015; Zhao et al., 2022). As noted by Parsad et al. (2021), shopper impulsivity was significantly affected by loyalty programs, discounts, and rebates. This is supported by Lavuri and Thaichon (2023) who argued that effective promotion tactics are more likely to encourage customers to make impulsive purchases compared to strategies that do not have such programs. Consequently, this study hypothesizes that:

H3: Promotional activities are positively related to online impulsive buying behavior.

b. Online Visual Merchandising

The process of displaying visual merchandise on websites is known as online merchandising (Ha et al., 2007), which involves the way of product presentation, the atmosphere and visual appeal of a website (Le, 2018). A study conducted by Saini et al. (2015) has shown that the enjoyment derived from the ambiance of a store leads to an increased duration of time spent in the store, which in turn results in impulsive spending. Bastow-Shoop et al. (1991), Le (2018), and Zhao et al. (2022) argued that online visual merchandising aims to achieve the same objectives as in-store visual merchandising: to captivate customers, provide an enjoyable experience, and stimulate purchases. In other words, a visually appealing website enhances the likelihood of user engagement, and increases customer intent to acquire things (Zhao et al., 2022). Moreover, previous research on online shopping indicated that aesthetically pleasing websites are associated positively with IB (Liu et al., 2013; Wells et al., 2011). This is supported by Lazim et al. (2020) and Le (2018), who argued that online visual merchandising has a positive effect on online IB behavior. Hence, this study hypothesizes that:

H4: Online visual merchandising is positively related to online impulsive buying behavior.

Online impulsive buying behavior and postpurchase Cognitive dissonance

Cognitive dissonance, in the context of consumer behavior, is defined by Festinger (1957) as a state in which a person's beliefs and behaviors are in conflict, resulting in a feeling of tension and discomfort. This discomfort can be alleviated by either creating a new dissonance, eliminating the existing one, or diminishing the significance of the conflicting cognition. An example of cognitive dissonance often arises in the routine buying choices made by individuals. Consumers commonly believe that they make sound decisions. However, when they impulsively acquire a product or service, it can contradict their previous confidence in their decisionmaking skills, leading to a sense of discomfort after the purchase (Sameeni et al., 2022). Moreover, the majority of consumers consider that the sellers have affected their cognitive consistency through their marketing activities (Cummings and Venkatesan, 1976; Elliot and Devine, 1994). Chetioui and El Bouzidi (2023) argued that people are more prone to feel psychological distress when they engage in IB. Lim et al. (2017) and Wood (1998) investigated the influence of IB on post-purchase dissonance, and found that a significant proportion of participants are likely to feel regret and anger after making purchases. In addition, George and Yaoyuneyong (2010) and Imam (2013) suggested that impulse buying results in greater cognitive dissonance compared to purchases that are more well planned. Therefore, this study proposes the following hypothesis:

H5: Online impulsive buying behavior is positively related to post-purchase cognitive dissonance.

Conceptual framework

This theoretical model is designed to better understand the relationships of the variables in this study. (see Fig. 1)

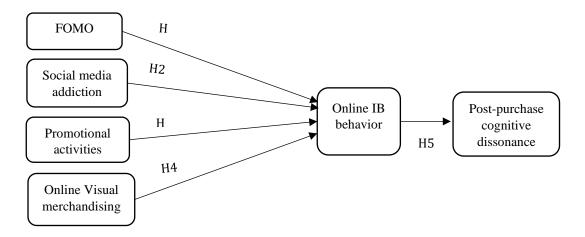


Fig. 1: Conceptual model

Source: Figure created by Authors

Research Methodology

a. Sample and data collection

This study used quantitative research with a survey method to achieve the desired results. Additionally, the study used a convenient sample to collect data. Convenience sampling has several advantages, such as cost-effectiveness, and ease of use (Jopp et al., 2022; Lim et al., 2022a, 2022b). Data were collected by a self-administered online questionnaire that was distributed over social media platforms such as WhatsApp, Facebook, and LinkedIn. The online survey was selected for its prompt and cost-effective geographical reach (Jaiswal et al., 2022; Upadhyay et al., 2022). Prior research has employed the survey method to gather data in comparable situations (Chetioui and El Bouzidi, 2023; Tran, 2022). According to Kaish (1967), Kotler (2001) and Chen (2011), cognitive dissonance, a form of mental discomfort, is most commonly experienced with the purchase of high-involvement items, such as shopping goods or specialty goods. Hence, a highinvolvement product has been selected for this study to evaluate the research constructs.

According to Pei (2013), the degree of cognitive dissonance is influenced by the significance of the decision, the appeal and availability of alternatives, and the similarities between the options. Therefore, this product can be: cell phones, laptops, iPads, compact digital cameras, small home appliances, TVs, microwaves, furniture, and fashion products (clothing, wristwatches, shoes, bags, etc.). The survey targeted Egyptian customers who shop online. Out of 347 completed questionnaires submitted, 284 replies were considered valid and acceptable. This study uses structural equation modeling (SEM) for data analysis.

b. Measures

Following the literature review, a self-administered survey was developed utilizing scale items derived from validated measures. Respondents evaluated their agreement or disagreement with each statement on a five-point Likert scale, ranging from one (strongly disagree) to five (strongly agree). Tab. 1 provides a clear summary of these details.

DIFIT DUSINGS REVIEW

Tab. 1: Measurement scale sources

Construct	Source	No. of item scale	
FOMO	Chetioui and El Bouzidi, (2023)	4	
Social Media Addiction	Nikolinakou et al. (2024)	9	
Promotional Activities	Goel et al. (2022)	5	
Online Visual Merchandising	Lazim et al. (2020)	5	
Online IB Behavior	Gulfraz et al. (2022)	6	
Post-purchase Cognitive Dissonance	Chetioui and El Bouzidi, (2023)	4	

Source: Table created by Authors

Results

In accordance with the methods used in the literature (Chetioui and El Bouzidi, 2023; Goel et al., 2022), we asked respondents to indicate

whether they had ever made an online purchase of shopping or specialty goods. The number of valid responses was 284. Tab. 2 displays the demographic characteristics of the sample.

Tab. 2: Demographic characteristics of the sample

Item	Frequency	Percentage (%)
Gender		
Female	172	60.56
Male	112	39.44
Age		
Less than 20 years old	3	1.1
20- Less than 30 years old	172	60.6
30- Less than 40 years old	77	27.1
40- Less than 50 years old	27	9.5
50- Less than 60 years old	4	1.4
60 years old and above	1	0.3
Monthly income		
Less than 5000 Egyptian pound	73	25.7
(EGP)	130	45.8
5000- less than 10000 EGP	61	21.5
10000- less than 20000 EGP	11	3.8
20000- less than 30000 EGP	6	2.1
30000- less than 40000 EGP	3	1.1
40000 EGP and more		
Time spent on social media per		
day	12	4.2
less than 30 minutes	21	7.4
30 min- less than 1 hour	58	20.4
1 h- less than 2 h	109	38.4
2 h – less than 4 h	84	29.6
4 h and more		
Frequency of online shopping		
Less than once a month	143	50.4
once a month	66	23.2
two times a month	51	17.9
Four times a month and more	24	8.5

Source: Table created by Authors

This study used AMOS 24.0 confirmatory factor analysis (CFA) to look at the relationships between the latent variables. The suggested model was evaluated using structural equation modeling (SEM). Several measures were used to assess the study model's fit: root mean squared error of approximation (RMSEA), comparative fit

index (CFI), normed fit index (NFI), and Tucker-Lewis's index (TLI). Tab. 3 displays the CFA results, which demonstrate that CFI, TLI, and NFI all exceed the stated standard (Hair et al., 1998; Hu and Bentler, 1999), with all three values exceeding 0.9, and RMSEA value is less than 0.06.

Tab. 3: The results of model fit measurements

RMSEA	TLI	NFI	CFI	p-value
0.05	0.907	0.924	0.922	< 0.01

Source: Table created by Authors

Structural equation modeling uses confirmatory factor analysis to evaluate construct validity. Campbell and Fiske (1959) established two criteria for assessing the construct validity of a test: convergent validity and discriminant validity. Composite Reliability (CR) and Average Variance Extracted (AVE) measure convergent validity. AVE value of 0.5 is deemed acceptable, while the level of 0.7 is considered very good. CR value should be 0.7 or above (Alarcón and Sánchez, 2015). Tab. 4 shows CR, AVE, and factor loading. Standardized loading for all expressions

is statistically significant at a significance level below 0.01. All expression standardized loadings were larger than 0.5. Therefore, they were appropriate, with the exception of two statements that were removed (XF1 & M1) since they were less than 0.5. From tab. 4, CR indicators exceed the threshold value of 0.7 (Bagozzi, 1994), and all AVE indicators are satisfactory (equal to or above 0.5). Consequently, these values are considered acceptable. Thus, affirming the convergent validity of the scales (Bagozzi and Yi, 1988).

Tab. 4: List of measurement items, factor loading, CR, and AVE

Items	Factor loading(standardized loading)	t-value	Sig	AVE	CR
FOMO				0.504	0.800
XA1	0.59	8.091	< 0.01		
XA2	0.79	7.893	< 0.01		
XA3	0.66	9.918	< 0.01		
XA4	0.78	constant	< 0.01		
Social media addiction				0.514	0.904
XE1	0.57	8.01	< 0.01		
XE2	0.67	8.98	< 0.01		
XE3	0.63	8.52	< 0.01		
XE4	0.79	10.08	< 0.01		
XE5	0.71	9.37	< 0.01		
XE6	0.85	7.69	< 0.01		
XE7	0.71	9.39	< 0.01		
XE8	0.79	9.30	< 0.01		
XE9	0.69	constant	< 0.01		
Promotional activities				0.542	0.825
XF2	0.68	10.92	< 0.01		
XF3	0.78	12.60	< 0.01		
XF4	0.71	11.59	< 0.01		

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XF5	0.77	constant	< 0.01		
Online visual merchandising				0.501	0.825
XG1	0.52	6.64	< 0.01		
XG2	0.77	8.37	< 0.01		
XG3	0.79	8.41	< 0.01		
XG4	0.79	8.03	< 0.01		
XG5	0.59	constant	< 0.01		
Online IB behavior				0.514	0.838
M2	0.74	Constant	< 0.01		
M3	0.52	8.23	< 0.01		
M4	0.76	12.05	< 0.01		
M5	0.80	12.75	< 0.01		
M6	0.73	11.65	< 0.01		
Post-purchase Cognitive dissonance				0.440	0.755
Y1	0.63	Constant	< 0.01		
Y2	0.54	7.165	< 0.01		
Y3	0.67	8.445	< 0.01		
Y4	0.79	8.612	< 0.01		

Source: Table created by Authors

The square root of the AVE of each and every construct was greater than the absolute value of the correlation between each pair of constructs, indicating an acceptable level of discriminatory validity for the variables (Gefen et al., 2000), as

shown in Tab. 5. Additionally, there is a moderate correlation between the variables since the correlation coefficient among the variables is below 0.90, hence confirming discriminant validity.

Tab. 5: Discriminant validity

	FOMO	social media addiction	promotional activities	online visual merchandising	online IB behavior	post- purchase cognitive dissonance
FOMO	(0.710)					
social media addiction	0.485	(0.717)				
promotional activities	0.567	0.285	(0.736)			
online visual merchandising	0.287	0.209	0.638	(0.708)		
online IB behavior	0.697	0.480	0.473	0.262	(0.717)	
post-purchase cognitive dissonance	0.435	0.445	0.316	0.422	0.621	(0.663)

Source: Table created by Authors

The following figure (see Fig.2) displays results of structure equation model. To test the study model and its hypotheses, structural equation

model is used (Hair et al., 1998). The results in Tab. 6 demonstrated that FOMO has a positive significant influence on online IB behavior

 $(\beta = 0.542,$ t-values= 6.501, p< 0.05). Furthermore, online IB behavior was affected directly and significantly by social media addiction (β =0.295, t-values= 4.469, p< 0.05), and promotional activities (β =0.199, t-values= 3.178, p < 0.05). Hence, H1, H2, and H3 were However, supported. online merchandising had an insignificant effect on online IB behavior (β =0.039, t-values =0.647, p= 0.518). Therefore, H4 was not supported and cannot explain online IB behavior according to this study. Moreover, online IB behavior significantly and positively influenced postpurchase cognitive dissonance (β =0.591, t-values=6.404, p < 0.05), supporting H5.

Tab. 7 shows the evaluation of the coefficient of determination (R-square) of the two endogenous latent variables: online IB behavior and post-purchase cognitive dissonance. This study explains 42.2 % of online IB behavior, and 34.9 % of post-purchase cognitive dissonance value in the conceptual model. According to Chin (1998), the presented model has a moderate predictive power.

Tab. 6: Result structure equation model test

Hypotheses	Path	Estimate	t- value	SE	Sig	Results
Н1	FOMO →online IB behavior	0.542	6.501	0.082	Sig	H1: supported
Н2	Social media addiction online IB behavior	0.295	4.469	0.072	Sig	H2: supported
Н3	Promotional activities—> online IB behavior	0.199	3.178	0.061	Sig	H3: supported
Н4	online visual merchandising Online IB behavior	▶ 0.039	0.647	0.097	Not Sig	H4: not supported
Н5	Online IB behavior— post-purchase cognitive dissonance	0.591	6.404	0.077	Sig	H5: supported

Source: Table created by Authors

Tab. 7: R-square results

Endogenous variables	R-square
Online IB behavior	0.422
post-purchase cognitive dissonance	0.349

Source: Table created by Authors

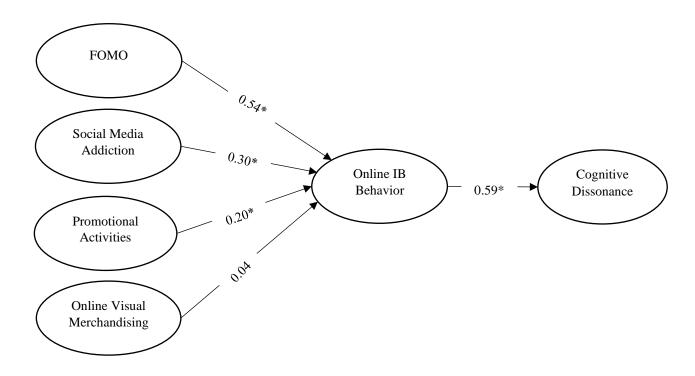


Fig. 2: Hypotheses testing of structural model

*Note(s): *p< 0.05*

Source: Figure created by Authors

Discussion

According to Chetioui et al. (2021), research on online shopping in emerging countries is limited. As a result, this study's primary aim is to examine the factors that lead Egyptian consumers to make online impulsive purchases, and how those purchases affect their cognitive dissonance after purchasing. The results of this study indicated that FOMO had a positive significant impact on online IB, which is in line with the findings of prior empirical investigations (Chetioui and El Bouzidi, 2023; Good and Hyman, 2021). This indicates that consumers opt for immediate and impulsive acquisitions in an effort to align with their contemporaries. Second, H2 was supported by the fact that social media addiction has a direct, significant effect on online IB. This agrees with the findings of a prior study about online IB done by Nikolinakou et al. (2024). Consequently, the results also supported H3 by demonstrating that promotional activities are a crucial determinant of online IB, aligning with prior research conducted by Goel et al. (2022). This indicates that customers largely depend on the incentives and promotions provided by online stores when they make online purchases. However, our data indicated no substantial effect of online visual merchandising on online IB behavior. Hence, H4 was not supported, which

may be attributed to the small sample size. In other words, the website's visual appeal and product presentation were not the most important website characteristics for the Egyptian customers who participated in our study. This result is not consistent with previous findings of Le, (2018). Finally, our findings validated H5 and demonstrated that online IB behavior had a direct and significant influence on post-purchase cognitive dissonance. This is consistent with the findings of other studies (Chetioui and El Bouzidi, 2023; Simanjuntak and Pratama, 2024). According to Barta et al. (2022), customers experience post-purchase cognitive dissonance when there is no good reason for their purchase. Grigsby et al. (2020) argue that people often feel guilty and uncomfortable after making irrational purchases.

Theoretical Implications

This study adds to the marketing literature with several theoretical advances. In the first place, this study examines e-commerce by looking into the phenomena of online impulsive buying in a developing nation where this idea has received less academic attention. Additionally, this study offers a clearer understanding of online impulsive buying by suggesting a combined model of internal and external factors (FOMO,

social media addiction, promotional activities, and online visual merchandising) related to this behavior. Moreover, the study findings provide profound insights into customers' post-purchase feelings after impulsive purchases, which may benefit both scholars and practitioners, particularly in light of the considerable expansion of global e-commerce. Lastly, this study found a substantial relationship between online IB behavior and post-purchase cognitive dissonance. Hence, facilitating further investigation into additional factors influencing post-purchase cognitive dissonance.

Practical Implications

Marketing managers are likely to benefit in a number of different ways from the findings of the current research. First, our findings indicate that FOMO is a primary factor influencing online IB behavior. Online businesses can enhance the appeal of their products to evoke emotions of FOMO, which in turn encourage shoppers to make hasty purchases. In addition, the increasing competition among online businesses enables customers to select those online stores that offer advantages. Consequently, online stores need to plan ahead by considering what kinds of product promotions they can run. In addition to using coupons and cash discounts, marketers may offer supplemental items and services as a way to entice customers. Based on the study findings, online stores must recognize the significance of website efficacy in influencing consumers' decisions regarding online purchases. This can be achieved not only by improving the visual aesthetics of websites but also by strengthening their navigability, interactivity, usability, and ensuring that websites are secure for financial transactions. When e-commerce websites enhance their interactive design functionality, users are more inclined to make actual transactions.

Furthermore, the study findings indicate that online IB affects cognitive dissonance among consumers. Ebeid and Gadelrab (2014) proposed that retailers should utilize their websites to execute marketing efforts aimed at alleviating the negative perceptions consumers hold towards sellers. Moreover, online stores can utilize this to develop aesthetically pleasing ecommerce platforms and efficient digital marketing strategies to mitigate adverse emotions linked to online IB behavior, which may affect the likelihood of future purchases on the same platform. Mitigating such unpleasant sentiments, some individuals may feel upon

receiving a product, can be addressed early by implementing incentives such as coupons for further purchases, providing timely information delivery in the event of any inquiries, and return policies may be evaluated to increase flexibility. This study shows that excessive and detrimental social media activity might cause social media buying. Social media addiction can harm one's well-being (Frost and Rickwood, 2017; Marino et al., 2018), and lead to excessive consumption (Pahlevan and Yeoh, 2018). Therefore, users should take precautions to avoid it. Social media businesses and advertisers should work together to identify users exhibiting addiction to social media platforms, utilizing their usage patterns, and implement self-regulation initiatives that restrict excessive exposure to advertising content, for instance, through tailored content that highlights the adverse effects of social media addiction.

Limitations and future research

The current study has a number of limitations. First, it is important to exercise caution when generalizing the results because our study was limited by a convenience sample. Furthermore, the research relied on cross-sectional data. A longitudinal study would be perfect because psychological aspects of individuals may change over time. Third, the study only included participants from Egypt. Accordingly, future studies could benefit from obtaining data from other countries to investigate the hypothesized relationships of this study. Fourth, the study concentrated on particular factors to examine the antecedents of online IB. Consequently, additional factors may influence consumer engagement in impulsive purchasing, such as self-congruence and materialism. Finally, future research may consider the role of personality traits and demographic variables (gender, age, income, and education) as moderators to investigate the hypothesized relationships of this study.

Conclusion

This study investigated the internal and external drivers of online impulsive buying behavior and its impact on post-purchase cognitive dissonance among Egyptian consumers. The findings confirmed that fear of missing out (FOMO), social media addiction, and promotional activities significantly influence impulsive buying behavior. However, online visual merchandising did not show a significant impact. Furthermore, the study highlighted a strong positive

relationship between online impulsive buying post-purchase cognitive dissonance, emphasizing the psychological distress that follows unplanned online purchases. These findings provide valuable insights for marketers aiming to enhance their online sales strategies while addressing consumer post-purchase concerns. Online stores can leverage FOMOdriven marketing tactics, optimize promotional campaigns, and develop customer engagement strategies to encourage impulse purchases. However, they should also implement measures to reduce cognitive dissonance, such as transparent return policies, personalized postpurchase communication, and enhanced product information to ensure customer satisfaction.

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