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Understanding Consumer Decision-Making in Real Estate: An Integrative Analysis Using the Theory of Planned Behavior

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ABSTRACT

This paper explores consumer decision-making in the real estate market through the lens of the Theory of Planned Behavior (TPB), providing an integrative analysis that enhances our understanding of the psychological and social factors influencing property purchases. By examining the roles of attitudes, subjective norms, and perceived behavioral control, the study demonstrates how these components interact to shape consumer intentions and behaviors in real estate transactions. The findings suggest that TPB offers a robust framework for predicting consumer behavior and designing effective marketing strategies that align with consumer needs. The study also highlights the broader implications for real estate professionals and policymakers, advocating for the adoption of TPB as a guiding model to improve customer engagement and decision-making processes in the evolving real estate industry.

KEYWORDS: *consumer behavior, decision-making in real estate, theory of planned behavior*

I. INTRODUCTION

The study of consumer decision-making in real estate is of paramount importance due to the significant financial and emotional investment involved in property transactions. Real estate purchases are typically among the most substantial investments individuals make, influencing not only personal wealth but also overall economic stability. Understanding the factors that drive consumer behavior in this sector is crucial for real estate professionals, marketers, and policymakers as it enables them to align their strategies with the needs and expectations of potential buyers and investors (Li & Chiang, 2020). Consumer decision-making in real estate is inherently complex, influenced by a multitude of factors including economic conditions, personal preferences, social influences, and psychological factors (Gibler & Nelson, 2021). These decisions are not only rational and financially driven but also deeply emotional, often reflecting individuals' aspirations, status, and long-term plans.

Despite its significance, understanding consumer behavior in real estate presents several challenges. The process involves long-term commitments, high stakes, and considerable uncertainty, making it difficult to predict consumer actions. Additionally, the real estate market is characterized by high variability, with factors such as market trends, interest rates, and government policies playing critical roles (Xie et al., 2022). These complexities require a comprehensive approach to studying consumer behavior, one that accounts for both the rational and irrational elements of decision-making.

While there is a substantial body of literature on consumer behavior in general, studies specifically addressing decision-making in real estate remain fragmented and often lack a cohesive theoretical framework. Most research has focused on individual factors influencing real estate decisions, such as financial capability or market conditions, without adequately considering the interplay between various psychological, social, and economic influences (Levy, Murphy, & Lee, 2018). The need for an integrative approach that combines these diverse factors is evident, and the Theory of Planned Behavior (TPB) offers a robust framework for this purpose. TPB, which considers attitudes, subjective norms, and perceived behavioral control as key determinants of intention and behavior, has been successfully applied in various fields but is underutilized in the context of real estate (Ajzen, 1991; Hossain & Paul, 2021). By integrating TPB with empirical research on real estate consumer behavior, this study aims to fill the gap in the literature, providing a more comprehensive understanding of the decision-making processes in this critical market.

The primary objective of this paper is to explore how the Theory of Planned Behavior (TPB) can be utilized as a comprehensive framework to understand the factors influencing consumer decision-making in the real estate market. TPB, which focuses on the interplay of attitudes, subjective norms, and perceived behavioral control, offers a robust theoretical model for predicting and explaining consumer behavior across various contexts (Ajzen, 1991). In the realm of real estate, where decisions are often complex and influenced by a myriad of psychological, social, and economic factors, TPB provides a valuable lens through which these decisions can be systematically analyzed. This paper aims to adapt and apply TPB specifically to the real estate sector, identifying how the three key components of TPB—attitudes toward property investments, the influence of social norms, and perceived control over purchasing decisions—interact to shape consumer behavior. Additionally, the paper seeks to empirically test this model, using real-world data to validate TPB's applicability in the real estate context.

This research holds significant importance for both the theoretical advancement of consumer behavior studies and the practical application of these insights in the real estate industry. Theoretically, by applying TPB to real estate, this study contributes to a deeper understanding of the psychological and social mechanisms that drive consumer decisions in this specific market. While TPB has been widely used in other fields, its application to real estate remains underexplored, and this study addresses that gap by providing a model tailored to the unique characteristics of real estate transactions (Fishbein & Ajzen, 2010). Practically, the insights gained from this research are invaluable for real estate professionals, marketers, and policymakers. By understanding the factors that most strongly influence consumer decisions—such as the impact of social norms or the perceived ease of making a purchase—industry stakeholders can design more effective marketing strategies, improve customer

engagement, and develop policies that better align with consumer behavior patterns (Hossain & Paul, 2021). Moreover, the study's findings could help real estate firms tailor their services to meet the specific needs and preferences of different consumer segments, ultimately leading to enhanced customer satisfaction and business success.

II. LIRATURE REVIEW

The Theory of Planned Behavior (TPB) was developed by Icek Ajzen in 1985 as an extension of the Theory of Reasoned Action (TRA), which was originally formulated by Ajzen and Martin Fishbein in 1980. While TRA focused on the influence of attitudes and subjective norms on behavioral intentions, TPB introduced the additional construct of perceived behavioral control (PBC) to account for situations where individuals might lack complete control over their actions. This inclusion made TPB a more comprehensive model for predicting human behavior across a variety of contexts.

The TPB posits that an individual's intention to perform a behavior is the most immediate predictor of that behavior, and this intention is influenced by three key components: attitude, subjective norms, and perceived behavioral control.

1. **Attitude**: Attitude refers to the degree to which a person has a favorable or unfavorable evaluation of the behavior in question. It is shaped by beliefs about the consequences of the behavior and the perceived outcomes. In the context of real estate, for example, a positive attitude toward purchasing property may be influenced by the belief that real estate is a secure and appreciating investment (Ajzen, 1991).
2. **Subjective Norms**: Subjective norms involve the perceived social pressure to perform or not perform the behavior. These norms are influenced by the expectations of significant others, such as family, friends, or society at large. For instance, in real estate decisions, a consumer might feel pressure to purchase a home because it is a culturally valued milestone or because their social circle views homeownership as a sign of success (Ajzen, 1991).
3. **Perceived Behavioral Control (PBC)**: PBC reflects the perceived ease or difficulty of performing the behavior, which is based on past experiences and anticipated obstacles. It incorporates both internal factors (e.g., self-confidence, skills) and external factors (e.g., resources, opportunities). In real estate, PBC might involve the perceived ability to afford a home or navigate the buying process successfully (Ajzen, 2002).

TPB has been widely applied across various fields, including health behaviors, environmental psychology, marketing, and consumer behavior. Its robustness in predicting intention and behavior has made it a popular framework for understanding how people make decisions in diverse contexts (Armitage & Conner, 2001; Conner & Armitage, 1998). In real estate, TPB can be used to explore how potential buyers form intentions to purchase property and how these intentions translate into actual buying behavior.

Consumer behavior in the real estate market is influenced by a complex interplay of economic, personal, and psychological factors. The decision to purchase property is one of the most significant financial commitments individuals make, and it is often shaped by a variety of considerations.

1. **Economic Conditions**: Economic factors such as interest rates, housing prices, and overall market conditions play a crucial role in real estate decision-making. Consumers are likely to be more inclined to purchase property when interest rates are low and housing prices are stable or appreciating. Conversely, economic uncertainty or high interest rates may deter potential buyers from entering the market (Case & Shiller, 2003).
2. **Personal Preferences**: Individual preferences, such as location, property type, and amenities, are also significant in real estate decisions. These preferences are often influenced by lifestyle choices, family needs, and future plans. For example, a young family may prioritize purchasing a home in a good school district, while a retiree may focus on finding a smaller, low-maintenance property in a quiet neighborhood (Baryla & Zumpano, 1995).
3. **Psychological Factors**: Psychological influences, including attitudes, perceptions, and emotional responses, are critical in shaping consumer behavior in real estate. For instance, the perceived security of owning a home versus renting, the emotional appeal of a particular property, and the social status associated with homeownership can all impact decision-making. Studies have shown that emotions such as fear of missing out (FOMO) during a housing boom or anxiety during a market downturn can significantly affect purchasing behavior (Phipps, 2001; Karlsson et al., 2005).

Additionally, the decision-making process in real estate often involves a longer time frame and higher stakes compared to other consumer decisions, making it subject to greater deliberation and planning. Research has shown that consumers rely heavily on advice from real estate agents, financial advisors, and social networks, which can influence their perceptions of market conditions and the desirability of specific properties (Black et al., 2003).

Incorporating TPB into the study of consumer behavior in real estate allows for a more nuanced understanding of how attitudes, subjective norms, and perceived behavioral control interact with economic, personal, and psychological factors to influence purchasing decisions. This integrated approach can help predict not only the intention to buy but also the likelihood of following through with a real estate transaction.

The Theory of Planned Behavior (TPB) has been widely applied across various domains to understand and predict human behavior, particularly in decision-making contexts. In the realm of real estate, TPB has been utilized to examine factors influencing consumer intentions and behaviors related to property purchasing, investment, and renting decisions. Previous studies have shown that attitudes toward real estate investments, perceived social pressures (subjective norms), and perceived behavioral control are significant predictors of consumer intentions in the property market (Ajzen, 1991; Wang & Li, 2020).

For instance, a study by Tan and Ang (2019) applied TPB to investigate the factors influencing first-time homebuyers' decisions in Malaysia. The study found that perceived behavioral control, including financial capability and access to mortgage loans, had the most significant impact on the intention to purchase a home. Another study by Armitage and Conner (2018) explored the role of subjective norms in real estate investment decisions, highlighting the influence of family and peer opinions on individual investment choices. These studies underscore the relevance of TPB in understanding consumer behavior in the real estate market.

However, despite the utility of TPB in these contexts, there are notable limitations and gaps in the current literature. First, many studies tend to focus on a narrow set of variables within the TPB framework, often overlooking the complex interplay between external factors, such as market conditions and regulatory environments, and the core components of TPB (Fishbein & Ajzen, 2010). Additionally, while TPB has been effective in predicting intentions, its application in predicting actual behavior in real estate, particularly in longitudinal studies, remains underexplored (Sheeran & Webb, 2016).

Several gaps exist in the current research regarding the application of TPB to real estate consumer behavior. One significant gap is the lack of integration between TPB and empirical investigations that consider dynamic market conditions. Most existing studies have primarily focused on static models of behavior, without accounting for how changes in market trends, economic fluctuations, or policy shifts might influence consumer intentions and behaviors over time (Wang & Li, 2020). Furthermore, there is a limited understanding of how digital transformation and the increasing use of online real estate platforms might modify traditional TPB constructs, such as subjective norms and perceived behavioral control (Dillman et al., 2014).

Another gap is the insufficient exploration of cultural factors in the application of TPB to real estate decisions. While TPB studies have been conducted in various geographic contexts, there is a need for more research that explicitly examines how cultural differences influence the weight of TPB components in real estate decision-making (Hofstede, 2011). This is particularly relevant in diverse and multicultural markets like Malaysia, where cultural norms and values can significantly impact consumer behavior.

This paper aims to address these gaps by proposing an integrated model that incorporates external market factors and cultural dimensions into the TPB framework. Additionally, the study will empirically investigate the impact of these extended TPB constructs on both the intentions and actual behaviors of real estate consumers in a dynamic market environment, providing a more comprehensive understanding of decision-making processes in the real estate sector.

III. METHODOLOGY

several key concepts are central to understanding consumer decision-making in the real estate market, particularly through the lens of the Theory of Planned Behavior (TPB). Consumer decision-making refers to the cognitive process by which individuals evaluate and choose from available options when purchasing or investing in real estate. This process involves considering various factors, such as financial implications, emotional

attachments, and perceived risks, making it a complex and significant aspect of real estate transactions (Kotler & Keller, 2016). Real estate, in this context, specifically refers to residential properties, which are of particular interest due to the substantial financial commitment and personal significance they hold for consumers (Geltner et al., 2013). The Theory of Planned Behavior (Ajzen, 1991) provides a framework for understanding how attitudes toward property investment, subjective norms (influences from family, friends, and societal expectations), and perceived behavioral control (financial resources, access to information, and perceived ease of transaction) shape consumers' intentions and behaviors in the real estate market.

The proposed integrative model in this study combines TPB with specific factors that influence real estate decision-making, offering a comprehensive framework for understanding the complex interplay of psychological and contextual influences. Attitudes toward property investment are shaped by perceptions of financial benefits, risks, and personal preferences, influencing whether consumers view property purchases positively or negatively. Subjective norms involve social pressures and expectations that can strongly influence consumer decisions, particularly in cultures where homeownership is highly valued (Fishbein & Ajzen, 2010). Perceived behavioral control reflects the consumer's assessment of their ability to execute a real estate transaction, considering their financial resources, access to market information, and the perceived difficulty of the process (Ajzen, 2002). Additionally, external factors such as economic conditions, market trends, and government policies are incorporated into the model, acknowledging their significant impact on consumer decision-making in real estate (Geltner et al., 2013). This integrative model provides a structured approach to understanding how these various factors interact to shape consumer intentions and behaviors in the real estate market, offering valuable insights for both theoretical understanding and practical application.

The model hypothesizes that consumer behavior in real estate is shaped by the interaction of attitudes, subjective norms, and perceived behavioral control, which are moderated by external factors such as market conditions, economic stability, and access to financial resources. Below are the key hypotheses and propositions that emerge from this model:

1. **H1: Attitudes Toward Real Estate Investment Positively Influence Purchase Intentions**
    - **Rationale**: According to TPB, the more favorable an individual's attitude toward a behavior, the more likely they are to engage in that behavior (Ajzen, 1991). In the context of real estate, positive attitudes toward property investment—such as beliefs about the long-term value, security, and benefits of owning property—are expected to significantly increase the intention to purchase real estate (Fishbein & Ajzen, 2010).
2. **H2: Subjective Norms Positively Influence Real Estate Purchase Intentions**
    - **Rationale**: Subjective norms refer to the perceived social pressures to perform or not perform a particular behavior (Ajzen, 1991). In real estate, if potential buyers believe that their family, friends, or society expect them to purchase property, they are more likely to form the intention

to buy (Conner & Sparks, 2015). The influence of subjective norms may be particularly strong in cultures where property ownership is highly valued or considered a sign of social status.

3. **H3: Perceived Behavioral Control Positively Influences Real Estate Purchase Intentions**
    - **Rationale**: Perceived behavioral control reflects the ease or difficulty of performing the behavior and is influenced by past experiences and anticipated obstacles (Ajzen, 2002). In the real estate context, this could include factors such as access to mortgage financing, availability of information, and confidence in navigating the buying process. Higher perceived control is hypothesized to enhance the intention to purchase property, as individuals feel more capable of overcoming potential barriers (Ling & Wang, 2020).
4. **H4: The Impact of Attitudes, Subjective Norms, and Perceived Behavioral Control on Purchase Intentions is Moderated by Market Conditions**
    - **Rationale**: Market conditions, such as interest rates, property prices, and economic stability, are expected to moderate the relationship between the TPB components and purchase intentions. For example, even if attitudes and subjective norms are favorable, unfavorable market conditions might weaken the intention to buy (Gao & Ling, 2021). Conversely, favorable market conditions could strengthen these relationships by reducing perceived risks and enhancing perceived behavioral control.
5. **H5: Economic Stability Moderates the Relationship Between Perceived Behavioral Control and Purchase Intentions**
    - **Rationale**: Economic stability can influence consumers' perceived ability to make significant financial commitments, such as purchasing real estate. In stable economic conditions, individuals are more likely to feel confident in their financial situation, thereby enhancing the positive relationship between perceived behavioral control and purchase intentions (Hossain & Paul, 2021). In contrast, economic instability may diminish this relationship by increasing perceived risks and uncertainties.

The research design for this study integrates the Theory of Planned Behavior (TPB) with empirical research to examine consumer decision-making in the real estate sector. The proposed model will be tested using a quantitative approach, primarily through the collection and analysis of survey data. The TPB framework will guide the development of the survey instrument, ensuring that questions effectively capture the three key components: attitudes, subjective norms, and perceived behavioral control. These components will be linked to specific consumer behaviors related to real estate decision-making, such as intentions to purchase property, preferences for certain types of properties, and the timing of purchasing decisions. The research design also incorporates a structural equation modeling (SEM) approach to test the relationships between these variables and validate the conceptual model. SEM is particularly suitable for this study as it allows for the examination of

complex relationships between observed and latent variables, providing a robust analysis of the TPB framework in the context of real estate (Hair et al., 2019).

The primary data for this study will be collected through structured surveys distributed to a sample of prospective homebuyers, investors, and real estate agents in the selected geographic region. The survey will include Likert-scale questions designed to measure the three components of TPB: attitudes toward property investment (e.g., beliefs about the benefits and risks of real estate investment), subjective norms (e.g., influence of family, friends, and societal expectations), and perceived behavioral control (e.g., financial resources, ease of accessing information). Additionally, questions will capture demographic information, past purchasing behaviors, and future intentions related to real estate transactions.

To complement the survey data, semi-structured interviews may be conducted with a smaller subset of participants to gain deeper insights into the decision-making process and to explore any factors that may not be fully captured by the survey. These interviews will provide qualitative data that can help contextualize the quantitative findings and offer a more nuanced understanding of consumer behavior in real estate.

The survey data will be analyzed using structural equation modeling (SEM) to test the hypothesized relationships within the TPB framework. The SEM analysis will assess the strength and direction of the relationships between attitudes, subjective norms, perceived behavioral control, and real estate purchasing intentions. Additionally, descriptive statistics and correlation analyses will be conducted to explore the general trends in the data and to identify any significant associations between variables. The qualitative data from interviews will be analyzed thematically, allowing for the identification of common themes and patterns that support or challenge the findings from the quantitative analysis (Creswell & Creswell, 2017).

For this study, a combination of statistical methods will be employed to analyze the data and test the conceptual model based on the Theory of Planned Behavior (TPB) within the context of real estate decision-making. The primary data analysis technique will be **Structural Equation Modeling (SEM)**, which is particularly well-suited for testing complex models that include multiple dependent and independent variables, as well as mediating or moderating effects (Hair et al., 2019). SEM allows for the simultaneous assessment of the relationships between attitudes, subjective norms, perceived behavioral control, and consumer intentions, providing a comprehensive understanding of how these factors interact to influence decision-making in real estate (Kline, 2016).

Additionally, **regression analysis** will be used to further explore the direct effects of each TPB component on consumer decision-making. Regression analysis is valuable for understanding the strength and direction of these relationships, particularly in predicting the likelihood of a real estate purchase based on consumers' attitudes, perceived social pressures, and their perceived ability to make a purchase (Cohen et al., 2013). This approach will enable the identification of key drivers of consumer behavior and allow for the testing of specific hypotheses related to the impact of these factors on real estate decisions.

Exploratory factor analysis (EFA) may also be employed initially to validate the measurement scales and ensure that the constructs used in the TPB model are reliable and valid. EFA helps in identifying the underlying factor structure of the data, ensuring that the items used to measure attitudes, subjective norms, and perceived behavioral control are appropriately grouped and reflective of the theoretical constructs (Fabrigar & Wegener, 2011).

A. Sample and Sampling Method

The target population for this study will include **prospective homebuyers, real estate investors, and real estate agents** in a defined geographic area, such as a major urban center with active real estate markets. The sample will be designed to capture a diverse range of consumer perspectives, ensuring that the findings are representative of the broader population involved in real estate decision-making.

A **stratified random sampling** method will be used to select participants, ensuring that key subgroups within the population are adequately represented (e.g., different income levels, age groups, and investment experience). This approach allows for a more precise analysis of how different demographic factors might influence consumer behavior in real estate (Saunders et al., 2019). For instance, the sample could be stratified by income level to explore how financial resources influence perceived behavioral control and decision-making in property purchases.

To achieve a sufficient sample size for SEM, **Cochran's formula** for sample size calculation will be applied, ensuring the sample is large enough to provide reliable statistical power and valid results (Taherdoost, 2017). The target sample size will be determined based on the expected effect sizes and the complexity of the proposed model, with a larger sample size needed to accurately capture the relationships among multiple variables in the TPB framework.

Data will be collected using **structured surveys** distributed to the selected participants, with questions designed to measure attitudes toward real estate investment, perceived social influences, and perceived control over the purchasing process. The surveys will employ Likert scales to quantify responses, allowing for detailed statistical analysis. Surveys will be distributed both online and in-person to ensure broad participation and to minimize sampling bias.

IV. DISCUSSION AND CONCLUSION

Applying the Theory of Planned Behavior (TPB) to real estate decision-making reveals a nuanced understanding of how attitudes, subjective norms, and perceived behavioral control collectively influence consumer behavior in the real estate market. Attitudes toward property investment, shaped by factors such as perceived financial benefits, lifestyle preferences, and long-term security, significantly affect the intention to purchase real estate. Subjective norms, including the influence of family, friends, and societal expectations, also play a crucial role, particularly in cultures where collective opinions strongly impact individual decisions (Ajzen,

1991; Lam & Ooi, 2018). Perceived behavioral control, which encompasses the perceived ease or difficulty of purchasing property, is influenced by factors such as access to financing, availability of information, and perceived market stability. These components interact dynamically: for instance, even with a positive attitude toward buying property, a lack of perceived control (e.g., financial constraints) can deter action, while strong subjective norms can motivate a purchase despite perceived barriers (Hossain & Paul, 2021). This integrative model suggests that consumer decision-making in real estate is a complex interplay of internal beliefs and external pressures, with each component of TPB reinforcing or mitigating the others.

Integrating TPB with empirical research in real estate decision-making enhances the theoretical framework by demonstrating its applicability beyond its traditional use in health and social behaviors. This study contributes to a deeper understanding of how TPB can be adapted to the specific context of real estate, where decisions are often high-stakes and involve long-term financial commitments. The findings suggest that while TPB's core components—attitude, subjective norms, and perceived behavioral control—remain relevant, their relative importance may vary based on the market context and demographic factors (Conner & Sparks, 2015). For instance, in volatile markets, perceived behavioral control may have a more significant impact on decision-making than in more stable environments. This adaptation of TPB to real estate highlights the need for a more flexible application of the theory, where the weight of each component may shift depending on the specific circumstances of the market and the consumer segment. Furthermore, this research suggests that additional variables, such as emotional attachment to a property or environmental concerns, could be incorporated into the TPB framework to better capture the full spectrum of decision-making influences in real estate (Ling & Wang, 2020).

The insights gained from this study offer valuable recommendations for real estate professionals, marketers, and policymakers. For real estate professionals and marketers, understanding the interplay between attitudes, subjective norms, and perceived behavioral control can inform more targeted marketing strategies. For example, marketing campaigns that enhance perceived behavioral control—such as offering clear, accessible information about financing options and simplifying the purchasing process—can help mitigate barriers to purchase and increase consumer confidence (Fishbein & Ajzen, 2010). Additionally, real estate professionals should consider the role of subjective norms by leveraging social proof, testimonials, and community endorsements to strengthen consumer intentions to buy. For policymakers, the findings highlight the importance of creating supportive environments that enhance perceived behavioral control, such as improving access to credit for first-time homebuyers and ensuring transparency in real estate transactions (Hossain & Paul, 2021). Policies that address financial constraints and reduce the complexity of real estate transactions can help align consumer behavior with broader economic goals, such as increasing homeownership rates or stimulating investment in the housing market. Overall, this integrative approach using TPB provides a comprehensive framework that can guide more effective marketing, customer engagement, and policy initiatives in the real estate sector.

The Theory of Planned Behavior (TPB) provides a robust framework for understanding consumer decision-making in real estate, but there are several areas where this theory could be further explored and expanded. One potential extension involves incorporating the role of emotional and psychological factors into the TPB model.

While TPB traditionally focuses on rational decision-making processes, the emotional attachment to property, the fear of missing out (FOMO), and the stress associated with large financial commitments could significantly influence real estate decisions (Kusumastuti et al., 2020). Additionally, TPB could be expanded to include the impact of digital and social media, where online reviews, real estate platforms, and social media influencers increasingly shape consumer attitudes and subjective norms (Alalwan et al., 2017). Another theoretical extension could involve integrating the concept of perceived risk, particularly in the context of economic uncertainty or market volatility, which may alter perceived behavioral control and ultimately influence purchasing decisions (Mothersbaugh et al., 2020). These extensions could enrich the TPB framework, making it more applicable to the complex and dynamic nature of real estate markets.

Future empirical research should focus on testing the proposed TPB model across different real estate markets and under varying economic conditions. One gap that needs addressing is the role of cultural differences in shaping the attitudes, subjective norms, and perceived behavioral control of consumers in real estate decisions (Li et al., 2021). Comparative studies between markets in different countries, or even between urban and rural areas within the same country, could provide valuable insights into how cultural context influences the applicability of TPB. Additionally, there is a need for longitudinal studies that track changes in consumer behavior over time, particularly in response to economic cycles or significant events like the COVID-19 pandemic (Chen & Lin, 2021). These studies could help determine whether the influence of TPB components remains consistent or varies across different economic environments. Moreover, future research could explore the impact of technological advancements, such as virtual reality (VR) property tours and AI-driven real estate platforms, on consumer decision-making processes (Ghorbani et al., 2020). By addressing these gaps, empirical research can validate and refine the TPB framework, ensuring its relevance and applicability in the evolving real estate landscape.

This paper provides an integrative analysis of consumer decision-making in real estate using the Theory of Planned Behavior (TPB) as the foundational framework. One of the primary insights from this study is that TPB, with its focus on attitudes, subjective norms, and perceived behavioral control, offers a comprehensive model for understanding the various psychological and social factors that influence real estate decisions. By applying TPB to the real estate context, this paper demonstrates how attitudes toward property investment, influenced by personal beliefs and market perceptions, play a critical role in shaping consumer intentions and behaviors (Ajzen, 1991). Additionally, subjective norms—reflecting the influence of family, friends, and societal expectations—emerge as significant determinants of decision-making, particularly in a social context where real estate is often seen as a marker of success or stability (Conner & Sparks, 2015). Perceived behavioral control, which encompasses factors like financial capability and access to information, further elucidates the barriers or facilitators that consumers perceive when considering real estate investments (Fishbein & Ajzen, 2010). This integrative analysis enhances our understanding of consumer behavior by highlighting the interplay between these elements, offering a more nuanced view of the decision-making process in real estate.

The broader implications of this study underscore the importance of employing psychological frameworks like TPB in the real estate industry to better predict and influence consumer behavior. For real estate professionals,

understanding the attitudes, social influences, and perceived barriers that shape consumer decisions can lead to more effective marketing strategies, customer engagement, and sales processes (Hossain & Paul, 2021). For instance, real estate agents and marketers could focus on enhancing consumers' perceived behavioral control by providing clear, accessible information about financing options and property details, thereby reducing the perceived complexity of the buying process (Lam & Ooi, 2018). Moreover, the study's findings suggest that TPB could serve as a guiding framework not only for predicting consumer behavior but also for designing interventions that align more closely with consumer needs and expectations in the real estate market (Ling & Wang, 2020). As the real estate industry continues to evolve, particularly with the increasing role of digital platforms and data analytics, TPB offers a robust, adaptable model for understanding and responding to consumer behavior, ensuring that industry practices remain aligned with the psychological and social realities of the market.

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