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## DETERMINANTS OF INVESTMENT DECISION AMONG MILLENIAL GENERATION IN JAKARTA

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Submitted in Partial Fulfilment of the Requirement for the Degree of Bachelor in Finance

MANAGEMENT AND SCIENCE UNIVERSITY
FEBRUARY 2023



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Bachelor of Finance

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DETERMINANTS OF INVESTMENT DECISION AMONG MILLENIAL
GENERATION IN JAKARTA

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ABSTRACT

Onvestment decision is a process of selecting one or more investment alternatives that considered more profitable than a number of other alternatives. This process.

re considered more profitable than a number of other alternatives. This process includes a risk analysis process to minimize losses that may occur on investment Alacement. The purpose of this study is to find out what factors influence the Millennial Generation in Jakarta in making investment decisions. Specifically, this study aims to anvestigate the effect of the influence of locus of control, financial literacy, social influence, technological advances, income among millennial generation in Jakarta. As for the methodology, primary data was collected from a sample of 100 millennials in Jakarta using a survey instrument. The collected data were analyzed using SPSS. The findings reveal that locus of control, financial literacy, and technology advances have a statistically significant positive effect on investment decision making among millennials in Jakarta. This study is also equipped with a discussion, limitations, suggestions, and conclusions.

Keywords: Investment Decision, Locus of Control, Financial Literacy, Social Influence, Technology Advances, Income

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#### **CHAPTER I**

#### INTRODUCTION

Background of Research

© Hak Cipta milik Investment has a big role in a country's economic growth. In recent years, Anyestment in Indonesia has grown quite rapidly. The participation of individual evestors in the capital market has recently increased. Products in the capital market are Increasingly becoming the most preferred assets. The percentage and volume of people Provesting in the capital market has continued to increase in recent years. This was conveyed using Indonesian Capital Market Statistics data from the Indonesian Central Securities Depository (KSEI). In 2022 there were 10,311,152 total Single Investor Identities (SID), this number increased sharply by 37.68% from 2021 and continued to increase until as of January 2023 it reached 10,481,044. In addition, individual investor demographic data notes that 58.55% are millennial investors, aged under 30 years. This data is fantastic because it means that half of capital market investors are millennials.

The millennial generation is a generation born in the midst of technological developments. This will affect habits and perspectives. Smartphones and the internet have become synonymous with the millennial generation. The presence of the millennial generation in Indonesia provides its own blessings to participate in stimulating technology-based creative industries. The millennial generation has very distinctive habits, including not being able to stay away from gadgets. From waking up to going back to sleep, gadgets are always at hand. The entry of technology into the millennial generation makes it easier for them to easily access knowledge and news. This has a positive impact because information and investment trends can be disseminated easily. But not infrequently this also has a negative impact, it is feared that investment activities are only used as activities to follow trends or imitate figures



influencers on social media. In making an investment decision, it must be based on accurate information and rational thoughts and need to consider ethics and fesponsibility, not just following the phenomena or trends that are currently happening. Investment decisions are actions taken by financial managers in allocating a number of funds in the form of investments. From this decision, investors certainly expect long-term profits. Investment decisions are also related to the process of selecting one or more profitable investment alternatives among the various investment alternatives accessible to the company. It is not only a matter of large profits that underlies investment decisions, but also involves risks. The steps are not only limited o risk analysis. Likewise with the nature of the investment that must be known in advance to ensure the placement of funds. The following is the nature of the investment decision. Making investment decisions is a process that involves solving problems while looking for investment opportunities (Putri, W. W. & Hamidi, 2019). Decision making is very important in determining the success of an investor. Actions taken by investors in making an investment decision can be caused by various factors such as perception, education, experience, habits, and others. In this study investment decisions will be more focused on Financial Literacy, Social Influence, Technology Advances,

#### 1.2 Problem Statement

The phenomenon of increasing number of capital market investors in Indonesia is known to be caused by technological advances. Capital market investors, which are dominated by the millennial generation, continue to increase. This is in accordance with data from the Indonesian Central Securities Depository (KSEI), the number of investors

Locus of Control, Income. For those researchers conducted this research with the title

"Determinants of Investment Decisions Among Millennial Generation in Jakarta"



the Indonesian capital market is mostly dominated by the millennial generation.

Towever, based on the Katadata Insight Center survey, it is known that 72.9% of the millennial generation spend more money on meeting communication needs such as internet credit, while only 15.9% spend their money on investment. There has been a significant increase in the number of investors in the Indonesian capital market and investors are dominated by the millennial generation due to technological advances. This is worrying if investment activities are only used as activities to follow trends or mitate figures or influencers on social media. In making an investment decision, it must be based on accurate information and rational thinking and need to consider ethics and desponsibility, not just following the current phenomena or trends. From the formulation of the problem, the following research questions were formed.

#### 1.3 Research Objective

This study has five specific objectives, which are: 1) To determine the effect of social influence on investment decisions among millennial generation in Jakarta. 2) To determine the influence of financial literacy on investment decisions among millennial generation in Jakarta. 3) To determine the effect of technology advances on investment decisions among millennial generation in Jakarta. 4) To determine the influence of locus of control on investment decision among millennial generation in Jakarta. 5) To determine the influence of income on investment decision among millennial generation in Jakarta.



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4 Research Questions

This study aims to examine the influence of social media in educating and an important arcreasing financial literacy among the younger generation, so that it has an impact on decision making in investing in the capital market.

- 1. Whether social influence affect investment decisions among millennial generation in Jakarta?
- 2. Whether financial literacy affect investment decisions among millennial generation in Jakarta?
- 3. Whether technology advances affect investment decisions among millennial generation in Jakarta?
- 4. Whether locus of control affect investment decisions among millennial generation in Jakarta?
- 5. Whether income affect investment decisions among millennial generation in Jakarta?

## POLITEKNI

1.5 Scope and Limitations of Research

This research focuses on the extent to which investment decisions in the millennial generation are influenced by several existing factors. Data will be collected from students, workers and entrepreneurs in DKI Jakarta with an age range of 21-30 years. To represent the population, the data will also be chosen with cluster sampling. As a result, these findings are inaccurately indicating the actual level of financial literacy in Indonesia.



Significance of Research

This study aims to provide answers to this research itself. This research is expected to be developed and become a reference so that it can be useful for further search. The results of this study are also expected to be used for the benefit and carning facilities for students, as well as being an evaluation material for students, Specially in the field of finance and investment. This research is also expected to be a Source of information as learning material on campus and to influence capital market Vegeducation.

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Proposed Chapter Organization

This study is divided into multiple parts. Chapter 1 is an introduction that examines the background of the study, research issues and problem statement, research purpose, research question, significance of the research, and scope and limitations of research. Chapter 2 is a literature review that analyzes the fundamental theories underlying the topic of the research as well as prior research from journals, books, and the internet. Chapter 3 is research methodology, which describes how researchers compiled this research using research design, research instruments, research populations and samples, and data analysis strategies. Chapter 4 is data analysis and findings, which describes the study's findings, and the chapter 5 is conclusion and recommendation, which addresses the summary of research findings, conclusion, recommendation, study limitations, and future research.



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#### **CHAPTER 5**

#### CONCLUSION AND RECOMMENDATION

Introduction

C Hak Cipta milik This chapter presents the findings of the research study from the data that has Been collected from the research sample. The main data source in this study is a Questionnaire and all samples were processed using IBM SPSS. These findings will The presented in relation to the research objectives that have been stated in the research. his research method is used to analyze the data that has been discussed in the research methodology of the previous chapter.

#### 5.2 Overview of The Study

The important objective of this chapter is to look at the factors that influence the millennial generation in making investment decisions. There are five main factors underlined in this study, namely social influence, financial literacy, technology advances, locus of control, and income. These five variables have been developed into hypotheses in this study. In terms of data collection, information was collected through questionnaires which were distributed to respondents through Google form technology on social media. In addition, the SPSS program is used to analyze and assess the data that has been collected. A total of 100 respondents have collected information for research studies. Therefore, through the analysis of the data contained in chapter 4, it is determined that hypotheses 2, 3, and 4 have a positive influence on investment decisions in the regression test (p  $\leq$  0.05). In other words, there is a significant and positive relationship between financial literacy, technology advances, and locus of control with investment decisions for the millennial generation in Jakarta. Meanwhile,



cial influence has a negative but not significant effect and income has a positive but significant effect.

pta r	Table 1 Summary of H	ypothesis Testing	
<u>⊒:</u>	Hypothesis	Accepted	Rejected
Polit	Table 1 Summary of H  Hypothesis  : Social Influence has a negative impact	(p < 0.05)	(p > 0.05)
	: Social Influence has a negative impact		<b>√</b>
Son	Investment Decision		
<u>3</u> .	E: Financial Literacy has a positive impact Investment Decision.		
	e: Technology Advances has a positive pact on Investment Decision.		n
	: Locus of Control has a positive impact Investment Decision.		
H5	vestment Decision.	TEKNII	K
5.3	Discussion of Results	RTA	

#### 5.3.1 Hypothesis 1

The first research question that is emphasized in this study is "Does social influence affect investment decisions?" that inflation has no significant effect on investment decisions. Based on the test results, it can be concluded that social influence has a negative and insignificant effect in influencing the millennial generation to choose investment decisions. This means that the characteristics of the millennial generation have a firm stance and are not easily influenced by other people. However, these results



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ontradict research conducted by Nahdia Hediati (2020) which states that social factors ave a significant influence on investment decisions.

### 3.2 Hypothesis 2

Additionally, a third research question, "Does financial literacy affect present decisions" is highlighted. To ascertain how financial literacy influences research decisions, Hypothesis 2, H2 is developed. Based on data analysis, there is a gnificant positive relationship between financial literacy and investment decisions. Thus Hypothesis 2 is accepted because it is supported by the results obtained. However, there are similar results from research. This is in line with research conducted by Willie Loprang, Ivonne S. Saerang, Debry Ch. A Lintong (2022) which shows that financial literacy partially has a positive and significant effect on investment decisions. Partially, the results of this study are supported by Munawar's research (2020) where financial literacy has a positive and significant influence on investment decision making.

#### 5.3.3 Hypothesis 3

In addition, the third research question highlighted is "Do technological advances affect investment decisions?". Therefore, Hypothesis 3, H3 was formed to investigate the influence between technological progress and investment decisions. Through data analysis, the influence of technological progress and investment decisions has a significant relationship. Hypothesis 3 is accepted because it is supported by the results obtained. Based on the test, it can be concluded that attitudes and intentions to invest will not go well without the facilities and infrastructure that support investment activities. Through new technology, investors will find it easier to monitor stock movements, and can access capital market information at any time using an internet connection. Securities companies are now starting to provide convenience for potential investors such as providing online trading facilities (trading stocks via the internet).



Inline trading is a new way of buying and selling stocks, namely via the internet.

The results of this study support and strengthen the strength of previous research by Nurfadilah, Ika Wahyuni, Ida Subaida (2022) stating technological advances have an effect on investment interest.

#### 3.4 Hypothesis 4

The fourth research question is "does locus of control affect investment decisions?". Then, Hypothesis 4, H4 was formed to determine the effect of locus of control on investment decisions. After analyzing the results, the research findings show that locus of control has a significant effect on investment decisions. Based on the results of the t test, it can be concluded that locus of control has a positive and significant effect on the millennial generation choosing investment decisions. So, H4 is accepted. This happens because in doing something, a person needs self-confidence, especially belief in one's own ability to be able to overcome anything, because all the end results of all actions are the result of actions that have been taken before to achieve them.

The results of this study support research conducted by Bella Puspitasari (2018) which shows that locus of control partially has a significant positive effect on investment decision making. The results of this study prove that investors with higher perceptions of self-control will have higher self-confidence which can cause these investors to choose risky investments in the hope of getting high returns.

#### 5.3.5 Hypothesis 5

The fifth research topic raised is "does income affect investment decisions?".

After that, Hypothesis 5 (H5) was developed to determine the effect of income on



westment decisions. However, these results are considered insignificant in this attement, so H5 is rejected because it cannot be concluded from the facts evaluated. The significant value for the exchange rate variable shows a value of 0.414 and a graph of \$\infty\$ of \$\infty\$ of \$\infty\$ in that study. Thus, it can be concluded that income has no of \$\infty\$ of \$\infty\$ of \$\infty\$ in that study. Thus, it can be concluded that income has no of \$\infty\$ of \$\infty\$ of \$\infty\$ in the exchange rate variable shows a value of \$\infty\$ of \$\infty\$ in that study. Thus, it can be concluded that income has no of \$\infty\$ of \$\infty\$ in the exchange rate variable shows a value of \$\infty\$ of \$\infty\$ in that study. Thus, it can be concluded that income has no of \$\infty\$ of \$\infty\$ in the exchange rate variable shows a value of \$\infty\$ of \$\infty\$ in the exchange rate variable shows a value of \$\infty\$ of \$\infty\$ in that study. Thus, it can be concluded that income has no of \$\infty\$ in the exchange rate variable shows a value of \$\infty\$ of \$\infty\$ in the exchange rate variable shows a value of \$\infty\$ of \$\infty\$ in the exchange rate variable shows a value of \$\infty\$ of \$\infty\$ in the exchange rate variable shows a value of \$\infty\$ of \$\infty\$ in the exchange rate variable shows a value of \$\infty\$ of \$\infty\$ in the exchange rate variable shows a value of \$\infty\$ in \$\inft

This is contrary to research conducted by Septiwati Sun (2022) which proves that having a higher income will have better investment opportunities compared to hose with lower incomes because there are still advantages to one's income so that high ancome is very important in making investment decisions. the higher the income, the better one's investment decisions. This is also supported and in line with research conducted (Ulfy Safryani, Alfida Aziz & Nunuk Triwahyuningtyas, 2020) and (Baiq Fitriarianti, 2018) that investment knowledge has a positive effect on investment decisions.

### 5.4 Contribution of The Study

#### 5.4.1 Body of Knowledge

This research project is not much different from previous research, based on evaluations from various scholars who have made several studies on financial literacy. In this context, this research paper considers the impact of social influence, financial literacy, technological advances, locus of control, and income on investing decisions. Simultaneously, this research enables future researchers with relevant research subjects to use it as a literature review and reference.

#### 5.4.2 Theory

This research is based on one of the theories from experts that can be related to the variables to be studied. The theory is Theory of Planned Behavior. Theory of



Hak Cinta

Theory which explains that to carry out an act or deed can be influenced by two reasons, and subjective norms and attitudes toward behavior (Fishbein and Ajzen, 1975). Theory of planned behavior is a theory that asserts that behavior is a result of a result of beliefs about a behavior, but when confronted with a specific event, only a handful of these beliefs emerge to impact behavior. These few beliefs stand out in terms of a feeting individual behavior. Adding individual factors to TPB. The factors in question are three things as follows personal, social and information.

4.3 Practical

This research adds insight and knowledge about the factors that influence investment decisions among the millennial generation, especially in Jakarta. In addition, it can increase awareness to make smart investment decisions so as to avoid fraud that is rife under the guise of investment.

TEKNIK

#### 5.5 Recommendation for Future Research

After reviewing the data analysis and discussion, it is clear that this study has some limitations since it was unable to include further aspects of the topic. Therefore, certain modifications or recommendations can be used for future research projects, as suggested. This research project examines five (5) independent variables, namely social influence, financial literacy, technology advances, locus of control, and income. First and foremost, researchers are strongly advised to conduct research using more independent variables to investigate investment decisions, because there are many factors supporting investment decisions. It would be interesting if more additional variables were tested in this topic to factor in investment decision support.



eneration in Jakarta is suggested to include various groups from other generations. It also important for this research to be disseminated to the wider community so that it be known how other generations understand this matter. According to Turner 2010), individual interviews provide more detailed information than other data conversation in person, sharing their opinions and experiences. Therefore, through a conversation in person, sharing their opinions and experiences. Therefore, through the detailed information than other data conversation in person, sharing their opinions and experiences. Therefore, through the detailed information than other data conversation in person, sharing their opinions and experiences. Therefore, through the detailed information than other data conversation in person, sharing their opinions and experiences. Therefore, through the detailed information than other data conversation in person, sharing their opinions and experiences. Therefore, through the detailed information than other data conversation in person, sharing their opinions and experiences. Therefore, through the detailed information than other data conversation in person, sharing their opinions and experiences.

5.6 Conclusion

Overall, the general objective of this research is to find out the determinants of investment decisions in the millennial generation in Jakarta. It is important to encourage the millennial generation to be able to make good and careful investment decisions.

In general, most of the determinants proved to be not entirely positive and significant in interpreting investment decisions for the millennial generation in Jakarta. The conclusion from the findings of this study is that financial literacy, technology advances, locus of control are major determinants that have a positive and significant correlation to investment decisions in the millennial generation in Jakarta. Other factors such as social influence and income on investment decisions should be further investigated to achieve more accurate and better results for future researchers in this field.

Last but not least, recommendations for further research are to modify variables and samples and populations that are more diverse, such as using more samples and



populations from the wider community, and looking at other variables to determine actors and improve research methodologies for the better. done. This will help Frofessionals in this field to find solutions for subject matter, as well as researchers to

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l. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber : a. Pengutipan hanya untuk kepentingan pendidikan, penelitian , penulisan karya ilmiah, penulisan laporan, penulisan kritik atau tinjauan suatu masalah.

tanpa izin Politeknik Negeri Jakarta فالماتة. Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya 1. Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun

b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta





REFERENCES

Tusuma, T. M., & Suniantara, I. K. P. (2022). Pengaruh Pendapatan, Social Influence, dan Kondisi Ekonomi Makro Terhadap Keputusan Pembelian pada E-Commerce. Perspektif (Lembaga Penelitian Dan Pengabdian Pada Masyarakat Akademi Manajemen Informatika & Komputer Bina Sarana Informatika), 20(1), 31–35. https://doi.org/10.31294/jp.v20i1.11767

Toprang, W. R., Saerang, I. S., & Lintong, D. Ch. A. (2022). PENGARUH LITERASI KEUANGAN DAN EFIKASI KEUANGAN TERHADAP KEPUTUSAN INVESTASI MASYARAKAT MALALAYANG DUA LINGKUNGAN DUA. Jurnal EMBA, 10(1), 1295–1304.

Murfadilah, N., Wahyuni, I., & Subaida, I. (2022). PENGARUH PENGETAHUAN INVESTASI DAN KEMAJUAN TEKNOLOGI TERHADAP KEPUTUSAN INVESTASI SEBAGAI VARIABEL INTERVENING (STUDI MAHASISWA PRODI MANAJEMEN UNIVERSITAS ABDURACHMAN SALEH SITUBONDO). Jurnal Mahasiswa Entrepreneur (JME), 1(8), 1630–1644. https://doi.org/10.36841/jme.v1i8.2209

Trabowo, B. R. (2021). PENGARUH PENDAPATAN DAN PERILAKU KEUANGAN TERHADAP KEPUTUSAN INVESTASI SAAT PANDEMI (STUDI KASUS).

TERHADAP KEPUTUSAN INVESTASI SAAT PANDEMI (STUDI KASUS NASABAH PT. PEGADAIAN (PERSERO) CP HELVETIA) [Skripsi, Universitas Muhammadiyah Sumatera Utara]. Repository http://repository.umsu.ac.id/bitstream/handle/123456789/14928/SKRIPSI%20 BUGI%20RIKI%20PRABOWO%201605160581.pdf;jsessionid=271F11B91F

2A484AE67975FC41FFB4A0?sequence=1

Puspitasari, B., & Kurniawati, S. L. (2018). PENGARUH LOCUS OF CONTROL INTERNAL, TOLERANSI RISIKO, DAN PERSEPSI RISIKO TERHADAP PENGAMBILAN KEPUTUSAN INVESTASI [Undergraduate thesis, STIE PERBANAS SURABAYA]. Perpustakaan Universitas Hayam Wuruk Perbanas Surabaya. http://eprints.perbanas.ac.id/id/eprint/3633.

Sun, S., & Lestari, E. (2022). Analisis Pengaruh Literasi Keuangan, Pengetahuan Investasi, Motivasi Investasi Dan Pendapatan Terhadap Keputusan Investasi Pada Masyarakat Di Batam. AKUNESA: Jurnal Akuntansi Unesa, 10(3), 101-114. https://journal.unesa.ac.id/index.php/akunesa/index

Sun, W., Dedahanov, A. T., Shin, H., & Kim, K. (2019). Extending UTAUT Theory to Compare South Korean and Chinese Institutional Investors' Investment Decision Behavior in Cambodia: A Risk and Asset Model. Symmetry, 11(12), 1524. https://doi.org/10.3390/sym11121524

Widyastuti, A., & Seno, P. H. K. (2020). Faktor-Faktor yang Mempengaruhi Keputusan Investasi Pada Generasi Milenial (Studi Pada Generasi Milenial Usia 18-34 Tahun di DKI Jakarta). Prosiding **SNAM** PNJ. https://repository.pnj.ac.id/id/eprint/9172

Widyastuti, A. (2022). FAKTOR-FAKTOR YANG MEMPENGARUHI KEPUTUSAN INVESTASI PADA GENERASI MILENIAL (STUDI PADA GENERASI MILENIAL USIA 18-34 TAHUN DI DKI JAKARTA) [Skripsi, Politeknik Negeri Jakarta]. Repository Politeknik Negeri Jakarta. https://repository.pnj.ac.id/id/eprint/8772



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#### **APPENDIX**





l. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber : a. Pengutipan hanya untuk kepentingan pendidikan, penelitian , penulisan karya ilmiah, penulisan laporan, penulisan kritik atau tinjauan suatu masalah. b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta

2. Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin Politeknik Negeri Jakarta

**DESCRIPTIVE ANALYSIS NORMALITY TEST** -0.646 0.085 Social Influence -0.251 -0.530 Financial Literacy -0.686 -0.070 Technology Advance -0.652 -0.276 Locus of Control -0.765 -0.196 -0.192 -1.153 **CORRELATION ANALYSIS MULTIPLE LINEAR REGRESSION** 

>>>>

	ID	SI	FL	TA	LC	1
ID	1	0.837**	0.877**	0.329**	0.846**	0.716*
SI	0.329**	0.357**	0.362**	1	0.296**	0.500*
FL	0.877**	0.853**	1	0.362**	0.826**	0.768*
TA	0.846**	0.804**	0.826**	0.627**	1	0.673*
LC	0.837**	1	0.853**	0.357**	0.804**	0.698*
	0.716**	0.698**	0.768**	0.594**	0.673**	- 1

rdede (012022090955)

Predictors	В	SE	t-statistics	Sig.
Constant	0.090	0.198	0.455	0.650
H (H <sub>1</sub> )	-0.010	0.038	-0.257	0.798
FL (H <sub>2</sub> )	0.419	0.104	4.032	0.000
TA (H <sub>3</sub> )	0.303	0.079	3.843	0.000
LC (H <sub>4</sub> )	0.199	0.085	2.344	0.021
(H <sub>1</sub> )	0.056	0.068	0.820	0.414
t square (R <sup>2</sup> )		0.828		
Adjusted R-squared		0.819		
F statistic		90.646		
Durbin Watson		2.003		

#### **DISCUSSION OF FINDING**



#### CONCLUSION

Overall, the purpose of this study is to determine the factors that influence investment decisions among millennials in Jakarta. Most of the determinants in this study proved to be not entirely positive and significant. Recommendations for further research are to modify variables and samples and populations that are more diverse, such as using more samples and populations from the wider community, as well as looking at other variables for determinants and improving the research methodology to be carried out.

# POLITEKNIK NEGERI JAKARTA



Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin Politeknik Negeri Jakarta I. Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber : a. Pengutipan hanya untuk kepentingan pendidikan, penelitian , penulisan karya ilmiah, penulisan laporan, penulisan kritik atau tinjauan suatu masalah. b. Pengutipan tidak merugikan kepentingan yang wajar Politeknik Negeri Jakarta

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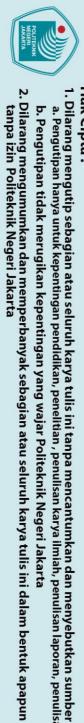
ppendix 3: Data Questionnaire

# Hak Cipta:

Dependent Variable Respondent Identity Age (Umur) Gender (Jenis Kelamin) Education Background Time Initial ID1 ID5 Type of Investment 2 N 3 valeri 4 MFR 19 22 5 Khofifah damayanti 6 NA 7 ym 8 jeff 22 21 30 26 9 syf 21 10 H 11 fira 22 11 fira
12 DA
13 R
14 JY
15 K
16 J
17 VC
18 RG
19 Ath
20 ML
21 DN 22 27 22 20 22 24 22 18 RGN
19 Athiatul Bary
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31 Tonni 30 32 T 20 33 Cic 21 34 FD 35 DF 21 36 Ns 37 Jimmy 19 25 38 Shadiq 39 Mei 45 35 40 Mayang 25 30 42 Abdul 27 43 Septian 44 Andini 21 45 Nadia 46 Ulfiani Zuhriyal 22 20 47 Ida 48 TA 25 22 49 Nursyaban 30 29 51 LL 26 53 Tamhida 29 54 AG 55 NC 23 21 56 Dn 57 SV 58 Nr 28 25 32 59 SM 21 60 KT 24

2. Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin Politeknik Negeri Jakarta Dilarang mengutip sebagian atau seluruh karya tulis ini tanpa mencantumkan dan menyebutkan sumber:
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61	YM	26	0	2	3	1	5	5	5	5	5
62	Hr	27	1	2	1	1	3	4	4	4	4
63	JA	29	0	2	2	3	5	5	5	5	5
64	Gd	28	1	2	2	2	3	3	4	4	4
65	YA	31	1	1	3	1	5	5	5	5	5
66	MF	25	1	1	2	2	4	4	4	4	4
67	A	29	0	2	1	3	4	4	4	3	3
68	s	34	1	2	1	1	4	3	4	4	4
69	Soffi	25	0	2	2	1	2	2	1	3	1
70	Hanif	35	1	1	3	3	3	4	3	4	3
71	MA	30	0	1	3	1	4	4	4	4	4
72	Zb	33	0	2	2	1	4	5	5	5	5
73	Wi	32	0	1	2	3	5	4	4	4	4
74	la	31	0	2	1	2	4	4	4	4	4
75	TCM	33	1	2	3	2	4	4	4	4	4
76	Rh	28	1	2	4	1	5	5	5	5	5
77	Nr	23	0	1	1	1	4	4	4	4	4
78	Syihab	23	1	2	1	1	5	5	5	5	5
79	Andini trian	25	0	1	2	1	4	4	5	4	5
80	Husain yama	26	1	2	2	2	4	4	4	5	4
81	Diyah	29	0	2	3	3	3	3	4	3	4
82	Syihab adda	23	1	2	1	1	5	5	5	5	5
83	Muhammad syihab	23	1	2	1	1	5	5	5	5	5
84	MA	22	0	2	2	1	3	5	5	5	5
85	Putri	27	0	1	2	2	4	4	3	3	4
86	Ricko	29	1	1	3	1	5	5	5	5	5
87	Rangga	30	1	1	3	1	4	4	4	4	4
88	Alim setyawan	30	1	1	3	1	4	4	5	5	5
89	Yudi Adi Setyawan	28	1	2	2	1	4	3	3	3	4
90	Figo sukarman	30	1	1	2	1	4	5	4	5	4
91	Mohammad pehardi	28	1	1	3	1	4	5	5	4	4
92	Meta Alpian Dwi Ratnaningtyas	21	0	1	2	5	4	3	4	5	4
93	Michael Leon	27	1	1	4	1	5	5	5	5	5
94	IH	30	1	2	1	5	3	4	4	4	3
95	Muhammad Sampurno	23	1	2	3	4	3	4	4	4	5
96	Zainab Aseggaf	25	0	2	1	2	3	4	3	4	4
97	е	21	0	2	1	2	3	3	4	4	4
98	mbk	18	0	1	1	1	5	5	5	5	5
99	Umroh	31	0	2	3	2	3	3	4	4	2
100	Hanif	31	1	2	3	1	3	4	3	4	3
101	Iwan kamali	27	1	1	2	1	4	4	5	5	4
102	Shadiq	26	1	2	1	1	3	3	3	3	3

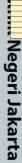
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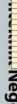
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- 2. Dilarang mengumumkan dan memperbanyak sebagian atau seluruh karya tulis ini dalam bentuk apapun tanpa izin Politeknik Negeri Jakarta





## Appendix 4: Question questionnaire QUES DETERMINANTS OF INVESTM **QUESTIONNAIRE** DETERMINANTS OF INVESTMENT DECISION AMONG MILLENIAL

milik		GENERATION IN JAKARTA
Polite	Initial	
<b>e</b> ∑.	Age	

**Education Background** 

How long have you been investing?

What type of Investment have you done/are you doing?

Choose one alternative for each statement based on your opinion by giving a tick (v)

#### Information:

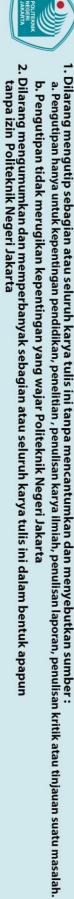
Gender

- 1. SD (Strongly disagree)
- 2. D (Disagree)
- 3. N (Neutral)
- 4. A (Agreed)
- 5. SA (Strongly agree)

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#### **Dependent Variable**

No	. Investment Decision	SD	D	N	A	SA
1	I can calculate the profit that I will get from the					
	investment activities that I do					
2	I invest in instruments that suit my investment					
	objectives and risk profile.					
3	I understand that in investing there is a principle of					
	high-risk high return.					



I know the risks different.

I know that there risk so the two a limit of the risks different. I know the risks of each investment instrument are I know that there is a trade-off between return and risk so the two are inseparable

No.	Social Influence	SD	D	N	A	SA
<b>9</b> 1	I consult with my parents before deciding to invest	\				
akarta	My parents support me in investing. I listen a lot to the experiences of my close friends who have					
	invested					
3	I am even more confident about investing because a relative has recommended it					
4	Young investor status can increase someone's prestige	N	K			
5	For me investing is a modern style demand					
6	As a student, I know about investment after studying it in one of the courses	/				

No.	Financial Literacy	SD	D	N	A	SA
1	I always set aside money to save or invest every					
1	Talways set aside money to save of invest every					
	month					
2	I understand that interest rates, inflation and					
	i didenstand that interest rates, inflation and					
	currency exchange rates affect the performance of					
	the capital market					



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Hak Cipta:

© Hak Cipta milik Politeknik Negeri J through interest rates, inflation, and currency exchange rates in making investment decisions I choose investments with a level of risk that I can bear

I consider the country's economic performance

I know the risks of each investment instrument are

different

<u>a</u>									
No.	Technology Advances	SD	D	N	A	SA			
1	Advances in technology help me in investing								
2	Information about investments can easily be obtained via the internet								
3	As a potential investor, I know and understand online investment transactions	M							
4	Trading System capability via Smartphone makes the investment process easier	N	LA						

No.	Locus of Control	SD	D	N	A	SA
1	I believe what I get in the future depends on myself					
2	I do positive things to change a better life					
3	I can think about how to improve personal finances					
4	There are many ways I will do when my personal finances are in trouble					
5	I can control myself when something happens					



HaklCipta milík Politeknik Negeri Jakarta Income SD D SA The income I earn is in line with my expectations The income that I earn every year increases I set aside the income that I get every month for saving and investing The high level of income affects the investment product I want

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