

Online-Appendix

"Blessing or Curse? The Influence of Neobrokers on the Investment Behavior of Young Investors"

Maximilian Janussek
Technische Universität München

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Appendix

Questionnaire

Neobroker - Curse or Blessing?

Dear Participant,

thank you for your interest in the survey conducted as part of the research of the Chair of Digital Finance at the Technical University of Munich. This study will assess the impact of neobrokers on retail investors' investment behavior. The survey complies with the data protection regulations of the GDPR and takes about 10 minutes. All answers are anonymous and will be used for scientific purposes only. Please answer each question based on your own experience, there are no "right or wrong" answers.

Thank you very much for your support!

If you have questions, please contact max.janussek@tum.de

Information about the project:

In recent months, neobrokers have enjoyed great popularity. In this context, neobrokers are defined as a new generation of online brokers that significantly reduce the trading range and the scope of services in contrast to traditional banks in order to focus on a specific area. In most cases, neobrokers appear primarily in the form of a mobile application. The following survey analyzes, among other things, the structure of the applications as well as the various interaction options within the neobrokers. The resulting findings will then provide the basis for a research paper to be elaborated.

Contact Details:

E-Mail: digital.finance@tum.de

Web: https://www.professors.wi.tum.de/digitalfinance/home/

Chair of Digital Finance Technical University of Munich TUM School of Management Arcisstraße 21 80333 Munich

Data Protection Officer:
Prof. Dr. Uwe Baumgarten
Technical University of Munich
Arcisstraße 21
80333 München
beauftragter@datenschutz.tum.de

Do I have to participate?

No. Your participation is voluntary and can be terminated at any time. You will not suffer any disadvantages in the event of non-participation or premature termination.

Is it possible to draw conclusions about my person?

Your answers will be collected anonymously and used exclusively for the purposes of this study. Anonymized data can not be assigned to any individual person. When published in a scientific context, the data will not reveal who participated in this research.

Profiling in the sense of Art. 4 No. 4 DSGVO does not take place. Since no personal data is collected, a data protection impact assessment pursuant to Art. 35 DSGVO is not required for the processing.

*	* Required				
1.	 Declaration of Consent * Mark only one oval. I agree to participate in the survey regarding "Neobroker - Curse or Blessing?" 				
	General Information	In the following section, you will be asked general, demographic questions.			
2.	Please indicate your	gender. *			
	Mark only one oval.				
	Female				
	Male				
	Prefer not to say				
	Other:				
3.	Please enter your ag	e.*			
	Under 18 years old				
	18 - 24 years old				
	25 - 34 years old				
	35 - 44 years old				
	45 - 54 years old				
	Over 55 years old	d			

4.	What is the highest degree or level of education you have completed? *
	Mark only one oval.
	Secondary School Diploma (Hauptschulabschluss, Realschulabschluss)
	High School Diploma (Abitur or equivalent)
	Bachelor's Degree
	Master's Degree
	Ph.D. or higher
	Trade school diploma (Berufsschulabschluss)
	Prefer not to say
	Other:
5.	What is your current employment status? *
	Mark only one oval.
	Student
	Employed full-time
	Employed part-time
	Self-employed
	Unemployed
	Retired
	Unable to work
6.	What is your annual household income? *
	Mark only one oval.
	Below 10.000€
	10.000€ - 50.000€
	50.000€ - 100.000€
	100.000€ - 150.000€
	Over 150.000€
	Prefer not to say

The following section contains the questions used by Lusardi and Mitchell to measure financial literacy. Answering these questions is optional and applies to a variety of financial concepts. If you answer these questions, you will be able to view your results after submitting the survey.

7.	Suppose you had 100€ in a savings account and the interest rate was 2 % per year. After 5 years, how much do you think you would have in the account if you left the money to grow?	point
	Mark only one oval.	
	More than 102€	
	Exactly 102€	
	Less than 102€	
	Do not know	
8.	Imagine that the interest rate on your savings account was 1% per year and 1 inflation was 2 % per year. After 1 year, how much would you be able to buy with the money in this account?	point
	Mark only one oval.	
	More than today	
	Exactly the same	
	Less than today	
	Do not know	
9.	, 6	point
	company's stockusually provides a safer return than a stock mutual fund."	
	Mark only one oval.	
	True	
	False	
	Do not know	

General experience with financial institutions In the following section you will be asked questions about your experience with trading financial instruments. The term neobroker usually refers to mobile applications that significantly reduce the trading range and scope of services in contrast to traditional banks in order to focus on a specific area. In comparison to direct and branch banks, these applications usually incur significantly lower or no costs and offer low-threshold access to stock trading.

	Do you have any points of contact with financial markets? *				
	Please check all that apply.				
	Check all that apply.				
	Yes, I have studied something related to finance (economics, finance, business administration, etc.).				
	Yes, I work in the financial industry				
	Yes, I educate myself about the financial markets in my free time				
	No, I currently have no points of contact				
	Other:				
11.	How often do you inform yourself about financial markets and investment opportunities? *				
	Mark only one oval.				
	Wark only one oval.				
	Daily				
	Daily				
	Daily Weekly				

1	 Which of the following channels do you use to learn about financial markets and investment opportunities? * Please check all that apply.
	Check all that apply.
	Official media (news e.g. Tagesschau; magazines e.g. Wirtschaftswoche, etc.) Friends and Family Social media (e.g. Instagram, Twitter, Reddit, Clubhouse, Google search, etc.) Professional financial advisor I do not inform myself
1	3. Have you ever invested money and thus gained investment experience? *
	Mark only one oval.
	Yes
	No
	Prefer not to say
1	4. How long have you been trading financial products? *
	Mark only one oval.
	Never
	Less than 1 year
	1 - 5 years
	6 - 10 years
	11 - 15 years
	Over 15 years
	Prefer not to say

15.	How often do you buy and sell financial products on average? *
	Mark only one oval.
	Almost Daily
	2 - 3 times a week
	Once a week
	Once a month
	Once in 3 months
	Once in 6 months
	Less than once in 6 months
	Prefer not to say
16.	How long is your average investment horizon? *
	Mark only one oval.
	Less than 1 month
	1 - 6 months
	6 - 12 months
	1 - 5 years
	More than 5 years
	Prefer not to say
17.	Where have you already purchased financial products? * Please check all that apply.
	Check all that apply.
	Local branch bank (such as a savings bank)
	Direct bank (online broker such as DKB or Comdirekt)
	Neobroker (online broker in a reduced form such as Trade Republic or Scalable Capital)
	Other:

18.	With which provider are you currently a user? *
	Please check all that apply.
	Check all that apply.
	Local branch bank
	Direct bank
	Neobroker
	I am currently not a user
	Prefer not to say
	Other:
19.	Where could you imagine buying financial products? *
	Please check all that apply.
	Check all that apply.
	Local branch bank
	Direct bank
	Neobroker
	Prefer not to say
	Other:
20.	On average, how much time would you spend reviewing the company
20.	professionally before buying a financial product? *
	Mark only one oval.
	1 2 3 4 5
	1 2 3 4 3
	Little Much

21.	Have you already bought financial products without having reviewed them first?
	Mark only one oval.
	Yes
	No
	Prefer not to say
22.	What is particularly important to you when using a financial institution's online services? *
	Please tick a maximum of 3 answers.
	Check all that apply.
	Intuitive handling
	Appealing design
	Pictorial representations of information
	Fast buying and selling options
	User-friendly application environment
	Short loading and processing times
	High level of digitization
	Data security
	Low cost
	Simple opening of an account
	Good consultation
	Personal customer service
	Prefer not to say
	Other:

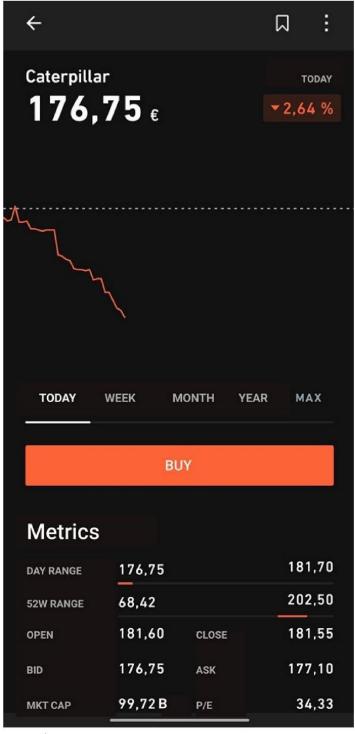
How often do you use a financial institution's mobile apps? *				
Mark only one oval.				
Daily 2 - 3 times a week Once a week Less than once a week Prefer not to say				
How important is it to you to be able to buy or sell a financial product quickly? *				
Mark only one oval.				
1 2 3 4 5				
not important very important				
How much risk would you be willing to take to increase your chance of higher profits? *				
Mark only one oval.				
1 2 3 4 5				
No risk High risk				
In the following section, you will be asked questions about your experience with neobrokers. Neobrokers are mostly mobile applications that significantly reduce the				

26.	In which of the following scenarios would you prefer a branch or direct bank over a neobroker? *				
	ETF stands for Exchange Traded Funds and is an exchange-traded index fund that tracks the performance of well-known market indices one-to-one. Please tick all that apply.				
	Check all that apply.				
	Short-term investment (e.g. for quick profits)				
	Speculative investment (e.g. in financial products, which receive high media attention)				
	Long-term investment for asset accumulation (e.g. for future purchases such as a home)				
	Set up a stock portfolio without much diversification (focus on 1 to 3 stocks)				
	Long-term investment for your own retirement provision				
	Continuous monitoring of share prices				
	Setting up savings plans				
	Investments in ETFs				
	Prefer not to say				
	Other:				
27.	Which of these scenarios would you consider a neobroker for? *				
	Please check all that apply.				
	Check all that apply.				
	Short-term investment				
	Speculative investment				
	Long-term investment for asset accumulation				
	Set up a stock portfolio without much diversification				
	Long-term investment for your own retirement provision				
	Continuous monitoring of share prices				
	Setting up savings plans				
	Investments in ETFs				
	Prefer not to say				
	Other:				

28.	What aspects do you associate with a neobroker? *
20.	Please check all that apply.
	Check all that apply.
	Intuitive handling Appealing design Pictorial representations of information Fast buying and selling options User-friendly application environment Short loading and processing times High level of digitization Data security Low cost Simple opening of an account Good consultation Personal customer service Prefer not to say Other:
29.	Do you consider the offers of neobrokers trustworthy? *
	Mark only one oval.
	Yes No Prefer not to say

30. How risky would you rate the following stock based on its line chart? (Version 1)

Source: Trade Republic



Mark only one oval.

	1	2	3	4	5	
Low risk						High risk

30. How risky would you rate the following stock based on its line chart? (Version 2)

Source: Trade Republic



Mark only one oval.

	1	2	3	4	5	
Low risk						High risk

31.	To what extent would the illustration influence your decision to trade the stock? *
	Mark only one oval.
	I am considering buying the stock
	I am considering selling the stock
	I am turning away from the stock as it seems too risky to me
	I am interested in this stock and trying to get more information
	I completely ignore this representation
	Other:

Below you can see another excerpt from a neobroker. This representation shows you the currently most popular stocks, as well as ETFs within this neobroker in a certain period of time.

Browse

Search stocks, ETFs, categories...

Popular Stocks

SHOW MORE

TINC Communications

MLP

Germany, Banking & Finance

Guangzhou Baiyunshan

China, Healthcare & Medicine, Pharma & Cosmetics

Sandfire Resources

Australia, Resources

Arista Networks

USA, Telecommunications, Savings Plan

Popular ETFs

SHOW MORE

MSCI Emerging Markets EUR (Acc)

Amundi, Large/Mid/Small Caps, Global, Savings Plan

Core MSCI World USD (Acc)

Lyxor, Large/Mid Caps, Global, Savings Plan









32.	What are your thoughts regarding the graphic above? * Please tick a maximum of 3 answers.
	Check all that apply.
	Useful information display
	Clearly arranged
	Unstructured
	Helpful
	Good sorting
	Misleading
	Intuitive
	Significant
	Superfluous
	Other:
33.	How would you react to above presentation of "Popular Stocks" etc.? *
	Mark only one oval.
	I am taking a closer look at the companies listed above to see if they fit into my investment strategy
	I try to invest quickly after reviewing the stocks, in one of the positions listed above, so as not to miss any opportunity
	I invest directly in one of the indicated stocks so as not to miss any opportunity
	I am glad for the representations and continue to follow to check which stocks are holding up in the list
	I look at the price performance of the respective stocks to find a good entry position
	I ignore the representations
	Prefer not to say
	Other:
34.	How helpful would you find it to find such a representation again within a depot
	provider? *
	Mark only one oval.
	1 2 3 4 5
	Not helpful Very helpful

CLOSE



Invite a Friend. Earn 30 €.

- Share your personal invitation link
 Tell your friends about Trade Republic.
- ✓ Your friends make their first trade
 They buy a first security for their new account.
- You both receive a bonus

You will receive 15 €. Your friends will receive 15 €.

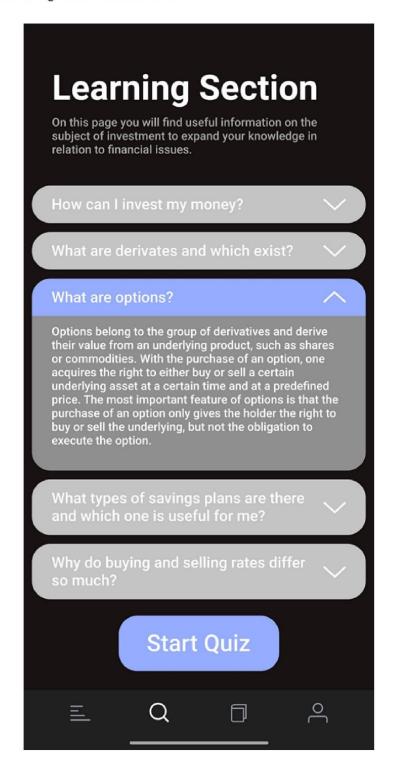
Invite Friends Now

By sharing this link, you agree with our **Terms of Service**.

	Mark only one oval.
	I am happy about the opportunity and will show it to my friends
	I am happy about the opportunity and try to convince friends to make a trade
	I find the possibility interesting, but I am skeptical about the offer
	I completely ignore the possibility and will not tell anyone about it
	Other:
36.	How do you feel when your friends have made the first trade and you all get the reward? $\mbox{\ensuremath{^\star}}$
	Please check all that apply.
	Check all that apply.
	I am happy and satisfied
	I get a desire for more
	I encourage more friends to make their first trade on this neobroker
	I feel confirmed to have achieved something positive
	I remain skeptical and will not use this action again
	Other:

35. How would you react to this action? *

In the image below, you can see a possible representation of a learning section to impart knowledge about financial issues.



37.	. How helpful would you find such a learning section in a Neobroker? *				section in a Neobroker? *		
	Mark only on	e oval.					
		1	2	3	4	5	
	Not helpful						Very helpful
38.	How helpfu						test your acquired knowledge within
	Mark only on	e oval.					
		1	2	3	4	5	
	Not helpful						Very helpful
	ank you very uch!	81			nterested sek@tum		results of the study, email
200							