*Please delete all the cursive text before submission. It is here just for your reference*.

*Further: data set – DS, research question – RQ*

*The mark (****x words****) after each subchapter states the word count limit. This indicates the expected amount of information which you can exceed by 10% without losing the mark.*

7COM1079-0901-2024 - Team Research and Development Project

Final report title: (*the topic of your research.)*

Group ID: A226

Dataset number:

Prepared by: *[Name and ID of submitting student first],*

*[Name and ID of other group members]*

***Please make sure*** *the document spelled correctly (including image labels, section headings, and table of contents). Please use correct punctuation.*

*Make sure your report is grammatically correct.*

University of Hertfordshire

Hatfield, 2024

Contents Page Goes here

**TODO LIST FROM PREVIOUS FEEDBACK**

Research Question

Hypotheses

Graphs

Statistical test

1. Introduction (Abdul)  
1.1. Problem statement and research motivation (100 Words)  
1.2. The data set (75 Words)  
1.3. Research question (50 Words)  
1.4. Null hypothesis and alternative hypothesis (H0/H1) (100 Words)

2. Background research (Lewis)  
2.1. Research papers (at least 3 relevant to your topic / DS) (200 Words)

The Geeq coin is the native cryptocurrency that is used on the GEEQ platform. It serves as a transactional cryptocurrency with a main use case being able to pay validation networks on the GEEQ platform for their services (Conley, 2019). There are three main roles that the coin plays in the platform:

* Compensation for validators for providing provably accurate data services
* For micropayment technology
* As fees for ledger rental

(Geeq, 2024)

The 2018 whitepaper for the GEEQ project (Conley) highlights additional use cases. These include enabling payments for smart city for services such as parking or paying a toll to auctions on sites such as eBay or Craig’s List. These use cases are suitable due to the low transactional cost making highly scalable as well.

Previous studies on cryptocurrencies have examined calendar effects, including time-of-day, day-of-week, and month impacts on volatility, returns, and trading volume. Kaiser (2019) looked at the Monday and weekend effect, the January effect, and the Halloween effect, finding no consistent effects in the trading activity of cryptocurrencies, but there are some reoccurring trading behaviours. In another paper (Baur, 2019) it was determined that there were no patterns in trading activity over time with some consistent trading occurring on certain days of the week.

2.2. Why RQ is of interest (research gap and future directions according to the literature) (100 Words)

The research question is of interest because whilst similar papers have concluded that there are not many regular patterns in cryptocurrencies in terms of trading volume and returns it might be different for the GEEQ coin. There are however research gaps when it comes to coins that have low transactional costs and can be used regularly for micropayments. Researching the monthly volume of the GEEQ coin might show regular trading behaviours across certain months or it might be like other papers where there was no regular pattern when it comes to trading.

3. Visualisation (Arshad)  
3.1. Appropriate plot for the RQ output of an R script (NOT a screenshot) (50 Words)  
3.2. Additional information relating to understanding the data (optional) (50 Words)  
3.3. Useful information for the data understanding (50 Words)

4. Analysis (Hariharan)  
4.1. Statistical test used to test the hypotheses and output (75 Words)  
4.2. The null hypothesis is rejected /not rejected based on the p-value (100 Words)

5. Evaluation – group’s experience at 7COM1079 (Vishua)  
5.1. What went well (75 Words)  
5.2. Points for improvement (75 Words)  
5.3. Group’s time management (50 Words)  
5.4. Project’s overall judgement (50 Words)  
5.5. Comment on GitHub log output (50 Words)

6. Conclusions (Abdul)  
6.1. Results explained. (75 Words)  
6.2. Interpretation of the results (75 Words)  
6.3. Reasons and/or implications for future work, limitations of your stud (50 Words)

# 7.0 References

Conley, J. P., 2018. *The Geeq Project White paper Version 2.0.* [Online]   
Available at: https://geeq.io/wp-content/uploads/2018/08/White-paper.pdf  
[Accessed 31 12 2024].

Conley, J. P., 2019. *The Geeq™ White Paper.* [Online]   
Available at: https://geeq.io/geeq-white-paper-2/  
[Accessed 31 12 2024].

Drik G. Baur, D. C. K. G. Z. (. L., 2019. Bitcoin time-of-day, day-of-week and month-of-year effects in returns and trading volume. *Finance Research Letters ,* Volume 31, pp. 78-92.

Geeq, 2024. *Powered by Geeq.* [Online]   
Available at: https://geeq.io/tokenomics-update-as-of-testnet-v1/  
[Accessed 31 12 2024].

Kaiser, L., 2019. Seasonality in cryptocurrencies. *Finance Research Letters,* Volume 31, pp. 232-238.

8. Appendices  
A. R code used for analysis and visualisation.  
B. GitHub log output.