

CT121-0-M-DF Digital Forensic

Individual Assignment

CLO1

Analyze different views of forensic investigation using appropriate tools and techniques.

CLO2

Propose digital crime investigation techniques using the forensic methodology.

CLO3

Explain fundamental issues in digital forensic cases by relating them to the existing laws and regulations.

Case Study: Online Scam Targeting a Financial Services Company

Background:

*TrustD Financial Services, a medium-sized firm specializing in investment advice and portfolio management, recently experienced a sophisticated online scam that compromised client information and led to financial losses. This case study focuses on the **cyber threat involved, the investigative process, and legal and ethical considerations**.*

*On April 1, 2024, TrustD Financial Services noticed unusual activities in their client accounts. Clients reported unauthorized transactions and phishing emails that appeared to be from the company. Initial investigations suggested that cyber criminals had **breached the company's email system** and used it to distribute phishing emails to clients. The scam's objective was to **harvest clients' personal and financial information**, which was then used to conduct unauthorized transactions.*

Based on the given case study, prepare a **2500-word report** on a selected **cyber threat within the area of via Online Scams**, which **must be relevant** to the given case study.

You may want to **create your case scenario** related to the cyber-attacks, focusing on **cyber threats and investigations** to support the following topics:

- If you were an independent forensic investigator, how would you take on investigating this matter? (You may narrow the case to a specific incident resulting from a specific industry or business nature)
- Propose a forensic investigation methodology in dealing with this attack.
- Discuss the legal and ethical aspects when dealing with such an event.

Marking Scheme

The marks allocation will cover the following:

| Criteria | Marks Allocation |
|--|------------------|
| Review of relevant Forensic Investigation Approach | 20 |
| Proposed Forensic Investigation Methodology | 15 |
| Evaluation of the forensic values of digital evidence | 15 |
| Discussion of the legal and ethical issues related to the case | 20 |
| Relevance of Report to the Case Study | 10 |
| Citation / Referencing | 10 |
| Formatting/Documentation | 10 |

INSTRUCTIONS

1. You are required to complete the assignment individually and submit it through Moodle – Turnitin assignment.
2. All discussion and justification should be made using your own words (**no copy-paste work is allowed**) and supported with citations from external resources (books, reliable internet resources etc.).
 - a) **Explanations and discussion should not be in general, must relate it with the given scenario.**
3. **Plagiarism** is a serious offence and will automatically be awarded **zero (0)** marks.
4. **All** information, figures and diagrams obtained from external sources **must** be referenced using the APA referencing system accordingly.