

ASSESSMENT BRIEF

L7 Data Security: Individual Portfolio, 100%

Module Leader: Stelios Sotiriadis

Key Details and Requirements

Submission deadline: Tuesday, 17 January 2023, no later than 16:30pm (GMT)

Learning outcomes:

At the end of the module, participants will be able to:

1. Critically evaluate and assess data security risk within an organization/systems.
2. Identify and recommend decisive actions to bridge security gaps and improve security.
3. Assess and organize data access levels based on a user-analysis (need vs availability).
4. Manage recovery and business continuity.

Assessment details: Individual Portfolio (tasks and activities accumulated over the semester), 100% (2,500 words)

Referencing: Students are expected to use Harvard Referencing throughout their assignments where required. Please follow the [Harvard Referencing Handbook](#) for all your assignments at the ULBS.

Submission Method: Turnitin - Your work needs to be put through Turnitin. All submissions will be electronically checked for plagiarism.

You have the option to upload your work ahead of the deadline, ULBS will be reviewing your last submission only.

Turnitin cannot be used for late submissions. In such case, you should send your work to Turnitin-submissions@law.ac.uk

If you experience issues when uploading your work, please email it by the deadline to Turnitin-submissions@law.ac.uk

Please note that you can deviate +- 10% from the word limit stated on each assignment.

ASSIGNMENT DETAILS

This assessment is comprised by an individual portfolio of in-class cases and activities. The portfolio is organised around three different assessment sub-elements case activities from weeks 2, 5 and 8.

Assessment part 1 (week 2):

Data management case:

Consider the following case and answer question 1 using up to 600 words.

The Group for the Appreciation of the Natterjack Toad (GANT) scenario

The Group for the Appreciation of the Natterjack Toad (GANT) is a conservation group which is keen to promote and preserve the well-being of the Natterjack toad. It has a significant number of members in a number of different countries around the world, all of whom are keen to promote the work of the Group which is a charity registered in the UK. All the Group's information is either on a web-based application available to members over the Internet or on old-fashioned, paper-based documents held by Dr Jane Peabody, the honorary secretary/treasurer.

The Natterjack toad is an endangered species which is gradually being destroyed by the development of areas where it prospers and through pollution affecting the brackish water and sand dunes in which it lives. The membership of the organisation is growing and the system for managing the records of members is one area where there are some concerns about the information assurance. Details of the Group's activities, their meeting places, their website and other aspects of the Group's work have been compromised in the recent past owing to the server containing them having no significant assurance in place. The chairperson (Ms Rachel Jackson) believes it is the right time to take information assurance more seriously. She has heard a bit about Information Assurance but needs to be clear what it really means and, most importantly, what the benefits and costs would be to the organisation.

Question 1:

Assume that you have been invited to a committee meeting of GANT by the chairperson, who wants you to 'start the ball rolling' by explaining why it would be a good idea for GANT to think about Information Assurance.

To make your points most forcefully, she has asked you to define three threats to the organisation, three vulnerabilities and consequently three risks that any Information Assurance system would need to manage.

Assessment part 2 (week 5):

Risk assessment case

Consider the following case and answer question 2 using up to 600 words.

Apple Health

The most prominent healthcare product by Apple is its health app. It is a complete tracker for measuring all the activities and health of the user. It monitors sleep, food, activity, heart rate (when connected with IoT devices), and other things that provide a clear assessment of the user's health data. The patient can connect this health data with other applications and ensure that they achieve the best measurements for the same. Apple Health is one of the best healthcare application examples that patients can use to get a better idea of their health.

Link: <https://www.apple.com/healthcare/>

Question 2:

Provide a risk assessment report for the Apple Health scenario. Identify at least 5 risks and mitigation strategies.

Assessment part 3 (week 8):

Case security frameworks

Consider the following case and answer question 3 using up to 600 words.

Technology is transforming the point of sale—definitely for the better. Today's point of sale (POS) systems are light years removed from cash registers of the past. POS credit card processing is easier than ever, but you'll want to become familiar with the latest in what's available before diving in.

So let's catch up on what's new. Here's a brief introduction to point of sale credit card processing:

A new era for POS credit card processing equipment

If you run a physical store location, you'll need the right equipment to accept credit cards, debit cards, digital wallets and other forms of payment.

Credit card terminals are the most familiar and longest-standing forms of retail payment acceptance. Credit card terminals are easy to use both for your staff and your customers. Yet even these "simple" credit card terminals are smarter than ever.

The majority of credit card terminals issued support secure transactions such as EMV "chip card" technology. Today, smart credit card terminals include NFC (near-field communications) technology that accept contactless payments and mobile wallets such as Apple Pay, Google Pay, and Samsung Pay.

Credit card terminals can provide a simple and reliable way to accept credit cards at the point of sale. The primary function of a standalone terminal is to accept card payments. For value-added solutions that provide additional benefits beyond processing such as, payroll management, loyalty programs and more, you'll want to look to a fully-integrated POS system.

A fully-integrated POS system is engineered so you can to operate your business more efficiently, both on the front end and back office. Often sleek and powerful with full-screen graphical interfaces, integrated POS systems are easy to use.

At the point of sale, faster checkout frees you and your staff to spend more time attending to the needs of customers. When it's time to manage back-office tasks, integrated POS systems offer a wealth of businesses productivity tools including direct reporting, inventory tracking, and employee scheduling features.

POS systems are rich in features, but they typically cost a bit more than a standalone terminal. Fully integrated POS systems aren't right for every business when starting out. But for those ready to take the plunge, a wide variety of integrated systems are available, often designed specifically for the needs of industries just like yours.

Mobile acceptance solutions are the newest entry to the world of POS credit card processing. Mobile acceptance allows you to take payments using just a smartphone and a card reader. Apps and attachments like secure credit card readers make the point of sale wherever you want it to be.

Mobile acceptance solutions let you accept credit cards anywhere: a flea market, house call, client visit or letting your staff meet your customers where they are within your store. Mobile payment systems are best known for business on-the-go. Yet the simple act of freeing the point of sale from the register is transforming in-store checkout as well.

Question 3:

Provide a discussion on data management frameworks considering the payment systems. What are the vulnerabilities and security controls for the POS case? Provide at least 4 security controls.

Assessment part 4 – End-Module Submission:

Collate the tasks completed throughout the semester and write a wrap-around cohesive report, including the above tasks. This report should have an Introduction to the tasks, the tasks themselves, and then a Conclusion and Reflection.

In the Conclusions & Reflection, you should summarise your findings and reflect on the lessons learned during this assignment and the challenges faced during this module.

Module Assessment Criteria

Class	Attributes	Marks
Distinction	<p>Illustrates an excellent level of understanding of complex issues in the subject. All requirements of the work are dealt with to a high standard and the work is free from all but isolated minor errors. The material is wholly relevant to the tasks.</p> <p>Excellent analysis, synthesis and critical reflection with the ability to tackle issues and questions not previously encountered.</p> <p>Evidence of independent and original judgment in relation to the resolution of the client's needs and problems. Excellently presented in terms of structure and professional style</p>	70-100%
Commendation	<p>Illustrates a very good understanding of the issues in the subject, some of which are likely to be complex with some independent critical thought appropriate to the tasks. Most of the requirements of the work are covered with only a few gaps or minor and inconsequential errors. The material is largely relevant to the tasks and there is a good attempt at analysis, synthesis and critical reflection with evidence of some ability to tackle issues not previously encountered. The work is presented in a clear and well-organised manner with only minor spelling and grammatical errors.</p>	60 -69%
Pass	<p>The work displays good knowledge and understanding and its relevance to the task. The submission exhibits clear analysis and reasonable use of grammar, spelling and language. It may contain errors and lack fluency. Limited evidence of the ability to sustain a relevant argument or logical reasoning.</p>	50 – 59%
Fail	<p>Exhibits an unsatisfactory grasp of the issues in the subject. Primarily descriptive and lacking in independent critical thought appropriate to the tasks. Weak or no attempt at analysis, synthesis and critical reflection with little evidence of ability to tackle issues not previously encountered. Poor spelling or other grammatical errors.</p>	0 - 49%