Team: Unity (2)
Team members: Adesola Sogunwa, Haindaine Chamane, Sebastien Pires
Marker: Dr Cathryn Peoples
Date: August 2023

Criteria	Level	Comments
Knowledge and under-standing of the topic / issues under consideration (25%)	Merit	Role-based access control: • Admin – create, update, delete users; assign roles and permissions • Teacher – update student data, add assignments, grade assignments • Student – view personal data, view assignments and grade Good alignment of the risks which the system will protect against using OWASP on page 6. Plans for a testing strategy which includes unit, integration and security tests.
Application of knowledge & understanding (25%)	Merit	System plans to focus on multi-factor authentication and identity management. MVC design pattern. System design presented from the perspective of the components which reside within each of the model, view, controller. Encapsulated – reusable components. Try to be specific in your terminology – what does it mean for an architecture to be "clean"? Security features include: • Password encryption • Session management • RBAC • Data encrypted at rest and in transit • Implementing the latest version of libraries • Logging and monitoring – does this include alerts? What will be logged and monitored? Good detail provided to show how the development will align with GDPR requirements. In the activity diagram, I would like to see swimlanes being used to show who is responsible for invoking each activity. You have gone some way in achieving this, with the use of student and hacker, however, please try to use the formal UML notation of swimlanes.
Criticality (25%)	Merit	A good opening into your report, helping to effectively position the problem which your team is working to contribute a solution to. Good use of

| | | timely related academic literature to support the introduction.

Good use of a misuse UML case diagram |
|---|---|---|
| **Structure & Presentation (25%)** | Merit | Thank you for clearly stating the number of words which have been used in your writing – 979 words.

I would have liked the design document to be submitted in an editable format so that I may work on it directly.

When presenting an acronym, please present the full definition of the acronym first, followed by the acronym in brackets. The acronym can then be used from that point onwards e.g., The Open Worldwide Application Security Project (OWASP). |

Overall comments

Positives:
  • Your team has given good attention to shaping the problem description and solution proposal specific to the challenges of your chosen domain – a learning management system.
  • Good use of a misuse case diagram to represent the risks which this LMS is exposed to.

Points for development:
  • In the opening of your document, I feel there is an opportunity to give greater attention to the provision of a solution with security as the core focus. The goal of this work first and foremost is a secure design, and this should come through strongly.
  • There may be an opportunity for greater organisation of your report. The security risks which you are protecting against could be presented as a list of non-functional requirements. The educational-related aspects could be presented as functional requirements. This would then help to ensure that all aspects relating to single topic are considered in a consolidated list once in your report.

Overall Grade: Merit