

Thank you for submitting your Programming assignment for the Launching into Cyber Security Module

In this assignment, you were asked to produce a Python code of an implementation of a security solution to mitigate an identified threat, which was discussed as part of your report to management of Queens Medical Centre on a web-based appointment and scheduling management information system (ASMIS).

The learning outcome was to be able to evaluate critically the solutions developed to solve/mitigate security issues and the deliverables for this assignment were:

- Python code with comments explaining the code
- Readme file containing description of the solution implemented and instructions on how to execute the code
- Test data used to test the code

Overall, excellent work done. To improve your grades further, do take note of the developmental areas highlighted below.

Knowledge and understanding of the topic issues under consideration – excellent

The code has an implementation of a solution to ensure user passwords are secured. The solution is implemented using Python with MySQL integration, and an encryption of user details which processes user password into unidentifiable characters before storage. There is also some evidence of implementation of role based access control.

Application of knowledge and understanding – excellent

The implementation logic was sound. You demonstrate good knowledge and understanding of Python programming and application. While the implementation has some very good design principles, this can be improved. For example, there appear not be an account recovery functionality provided to support genuine user recover password. Also, the system appear to be unforgiving! It would have been better to have some policy around maximum number of login attempts for the system to exit. That would support genuine users while preventing brute force attacks.

Structure and presentation (as detailed in the assessment guidance) – merit

There is a good documentation in lines of code. The README file is very good – there is a clear documentation of what has been. Even though there is no test file to show test results, the documentation shows the effort made and the issues confronted in the implementation. The information contained in the README provides enough information for future work.