

CSCE 5565 Quiz 3 - Fall 2023

Question 1 (10 points)

Provide an example of security requirements and illustrate its satisfaction of each of the three criteria for adequate security requirements.

Question 2 (10 points)

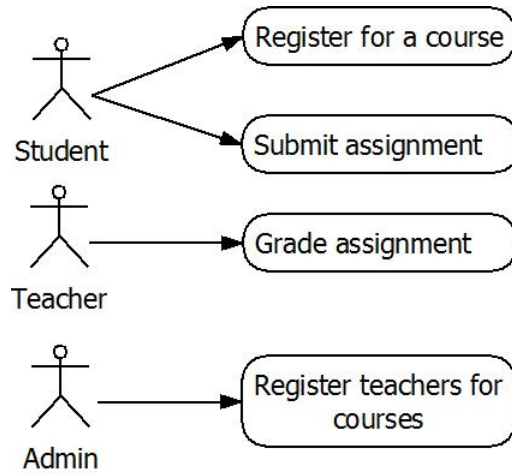


Figure 1: A sample use case of a marking system.

You are provided with Figure 1, representing a use case diagram for a school's marking system.

List three (3) security requirements that are essential for the development of a secure marking system.

Question 3 (10 points)

Explain the complete mediation design principle in one or two statements, and provide an illustrative example.

Question 4 (10 points)

You are building a new desktop software that you plan to distribute for Mac users. What security mechanisms do you need to enforce to ensure that malware does not change the behavior of your software?