**CS 305 Module Two Written Assignment Template**

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CS-305: Software Security

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**Instructions**

Replace the bracketed text with the relevant information in your own words. If you choose to include images or supporting materials, make certain to insert them in all the relevant locations in the document.

* **Areas of Security**

From what I could gather after analyzing the scenario and going over what I know of the architecture and knowledge of cybersecurity, my suggestion from the VAPFD that is relevant to the project would include the following:

- API's

- Input Validation

- Code Quality

* **Areas of Security Justification**

All of these are important for various reasons and are relevant to the application. API utilization is important because of how it acts as the ties that connect between the database and other portions of the application. With no API, information isn't transfered efficiently. When considering the scenario, Input Validation is required, as it allows the API to validate inputs to ensure it matches what the system already contains. Code quality is potentially the most important aspect, as a poor quality program is likely to fail or throw errors, use excess memory, or display results inaccurately.

* **Code Review Summary**

There are a few red flags in the document that cannot be overlooked. The Pom.xml file shows that it is updated to version 3.2.4, but the most updated version is 6.4.1. While only a minor flag, various changes happen between versions of software, and there is no guarantee that new errors won't arise due to potentially incompatible versions. The most up-to-date version of frameworks are recommended due to previous vulnerabilities being patched out.

* **Mitigation Plan**

Fixing any and all errors in the project is necessary, but another concern is the current version of the framework. In order to avoid unnecessary issues arising, it's important to update the framework to the most updated version so any current bugs can be fixed and any future issues within the new framework can be avoided.