# CS 305 Module Two Code Review and Mitigation Plan Assignment

## Instructions

Replace the bracketed text with your own words. If you choose to include images or supporting materials, be sure to insert them throughout.

## Areas of Security

* The areas I feel are the most relevant to assessing the vulnerability using the Vulnerability Assessment Process Flow diagram are Input Validation, the API, and the Code Quality.
* To Justify my choices of Input Validation, the API, and the Code Quality, I chose Input Validation as the input being received needs to ensure that external code is not injected and change the system or return an invalid output. Next, I chose the API as almost all websites rely on a database, structuring using Spring and using spring for the API’s dependencies will create a stronger more secure program. Finally, the code quality is important as it is required to authenticate users and authorize access dependent on the users role to ensure the least amount of access is available per role to help mitigate access to unauthorized areas of the program and effective handling.

## Code Review Summary

* On the POM.xml the team is using a dated webmvc 2.6.5 version instead of a current version. Within “GreetingController.java” the scan data is attached directly to a string and added a clear text format. This could cause errors within the program if someone creates unauthorized strings.

## Mitigation Plan

* Update to the current webmvc.
* Limit the length of the strings in GreetingController.java