# 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

* According to the Vulnerability Assessment Process Flow diagram the most relevant areas are Input Validation, the API, and the Code Quality.
* The choice of Input Validation is because the input being received needs to ensure that external code is not injected and change the system or return an invalid output.
* The choice of API is because 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.
* 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

* The team is using a dated webmvc 2.6.5 version on the POM.xml instead of a current version. In the “GreetingController.java” the scan data is attached directly to a string and added a clear text format, that could cause errors if someone creates unauthorized strings.

## Mitigation Plan

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