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Assignment 2-1 CS-305

# 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

* Starting from the beginning the most important part is to verify the input from the user. I have been told as a best practice that if a user is going to use a program then assume they will try to break it.
* Next we need to make sure that API that we are using is secure, the less 3rd party API’s the better. If an API is very popular then odds are there is hackers that know their way around it.
* Cryptography is using a secure link to make sure that there is no holes for hackers to view into our program.
* Now for client/server use we need to make sure only the request we want are coming in. This will avoid DDOS attacks and many others. It is imperative that we don’t let any user ping the database.
* Something very popular in programming is the assumption of errors in python this is a try except. Many other languages have a familiar syntax that catches specific errors that way the program doesn’t crash but instead understands the errors and moves past them.
* Finally we want to practice secure programming, for example in C we want to make sure we are closing our data structures that way they cannot leak out information that hackers can put together.

## Code Review Summary

* On greetings controller there is an input from the user that is not limited on checked. This not good that a user can input any string that is wanted. Also This is a very old version of spring released in the time period between 06-09. That is more than a decade old, there has been multiple bug fixes and updates that should be required to even use the framework.

## Mitigation Plan

* I would advise switching frameworks to a newer version to change load speeds and help with the overall performance/security of the web application.