# CS 305 Module Two Coding Assignment

## 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.

## Run Dependency Check

A screenshot of a computer

AI-generated content may be incorrect.

## Document Results

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| --- | --- |
| **Dependency Code** | **Description** |
| hibernate-validator-6.0.18.Final.jar | Hibernate's Bean Validation (JSR-380) reference implementation. |
| jackson-databind-2.10.2.jar | General data-binding functionality for Jackson: works on core streaming API |
| log4j-api-2.12.1.jar | The Apache Log4j API |
| logback-classic-1.2.3.jar | logback-classic module |
| logback-core-1.2.3.jar | logback-core module |
| mongo-java-driver-2.4.jar | Java Driver for MongoDB |
| snakeyaml-1.25.jar | YAML 1.1 parser and emitter for Java |
| spring-boot-2.2.4.RELEASE.jar | Spring Boot |
| spring-boot-starter-web-2.2.4.RELEASE.jar | Starter for building web, including RESTful, applications using Spring MVC. Uses Tomcat as the default embedded container |
| spring-core-5.2.3.RELEASE.jar | Spring Core |
| spring-expression-5.2.3.RELEASE.jar | Spring Expression Language (SpEL) |
| spring-web-5.2.3.RELEASE.jar | Spring Web |
| spring-webmvc-5.2.3.RELEASE.jar | Spring Web MVC |
| tomcat-embed-core-9.0.30.jar | Core Tomcat implementation |
| tomcat-embed-websocket-9.0.30.jar | Core Tomcat implementation |

## Analyze Results

There are a lot of dependicies flagged within the dependency report and the best way to go about addressing them would be to fix all of them based on the severity level. The dependencies with the highest severity issues should be fixed first. There are also a number of dependencies that are outdated and they should be easily resolved by updating them to the latest version. There are also false positives within the dependencies and they should be suppressed so that developers can focus their time on resolving the real issues. This can help to save time in the development progress. Another issue that I found was proper input validation was not implemented resulting in some of the dependencies showing up on the report. Double checking the code and implementing the coding best practices with proper input validation would help to ensure a safe program and resolve these issues.