Cyber Security research essay – research intro my old code: testing and security

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# Introduction

As part of the personal specialization project, I started looking back on my older projects to check if my applications are secure. I also went back to look at unit testing. By making this retrospective, I managed to create a research essay about my application security and the way it has evolved.

# Previous testing

* **Testing in semester 2**

Testing in semester 2 came as an optional requirement. Regardless, I chose to implement this feature in my code from both the individual and team assignments. Throughout this semester, I used unit testing for some of the features of the applications, such as the login or register functions.

* **Testing in semester 3**

As anticipated, testing in semester 3 became a requirement. This time, unit testing will be accompanied by integration testing. I have used these two testing techniques extensively for both the individual and the team assignments. This time, as required, the tests cover the entirety of the code, from login and register functions all the way to testing the classes and the CRUD operations within the applications.

# The security of my old code

The focal point of this research was to review my old code when it comes to its security. I was pleased to find out that my old websites were resistant to attacks such as SQL injection, cross-site scripting, cross-site request forgery or path traversal. However, there was no 2-factor authentication, and the token could be relatively easily intercepted by an attacker.