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| In 3+ paragraphs, highlight your lessons learned and learning experience |
| from working on this project. What have you learned? What did you |
| struggle with? What would you do differently on your next project? |

The first thing I would have done differently is the amount of time spent on the project. I only spend about a couple of hours the first week getting the design done. I thought the project was going to be simple because it was the first, but it was not. Because I did not really understand Javadoc for the PasswordCheckerUtility class , I thought I had to make a true and false return for each private method. I then later found out that I only needed to make one boolean return statement and make a throw statement if the conditions are not met.

Another thing I struggled with was the getInvalidPasswords method. Since at first, I had my code return a boolean not an exception, the isValidPassword method would only throw back a boolean value. As I stated, I then realized that I only needed to throw an exception and not try to send back a boolean value if conditions are not met. It took me about an hour to figure that part out.

The last thing I really struggled with was the Javadoc and the student JUnit test since I have never done those things before. I had to do some research to get an idea of how I could use JUnit to test my code. Same thing with the Javadoc, I had to search up how to properly make a Javadoc for the PasswordCheckerUtility class.

Overall, I believe I need to start projects much earlier and take more time with them. Carefully read directions, and most importantly talk to professor Kuijt whenever I need any assistance.