# Secure Banking Application Project

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## Introduction

Introduction to the report (6/7 lines), tell the reader what this report is about, explain that you are going to describe the application that you created and how you made sure it would be secure.

## Creating the project

Tell the reader how you created the project, did you use VS Code? MySQL Developer? Git Hub? XAMPP? What language did you choose, Java, C#, Python, explain why. Any issues you had with your set up. Did you use your own laptop, ATU machines, Virtual Machine, Hard Drive. You can be specific with the versions on the language that you used and the spec of your laptop etc.

## Functionality

Overview of how your project works. Details the technologies that you used. What version. Explain the **basic features** of your application…. Login, Account creation, balance checking, deposits, and withdrawals etc.

How **Robust** is it? Talk about how your application handles errors gracefully, maintains consistent behaviour under different conditions, and recovers from failures. Include screen shots

How have you included **Secure Coding Practices,** show where you used prepared statements, password hashing, input validation, and data sanitisation. Details with the screenshots the Static Analysis tool(s) that you used. How did static analysis help you with developing your code?

Detail how you implemented **Security Features** such as password hashing and multi-factor authentication. 2FA does not have to work but should be implemented in the code and you need to show how you would do it and explain how it works. Detail the **vulnerabilities** ofthe system, identify potential security vulnerabilities and how you would mitigate against them, including

Show how you **tested** the application, explain how you tested the security feathers e.g secure login**)**

Detail your unit tests add screen shots. Did you find any bugs, did you find any issues/holes in your security?

## Conclusion

What did you learn from doing this report, how secure do you think your application was overall, what would you change/do differently? What was the most challenging part. Did anything surprise you as being easier/harder, something that you didn’t think was needed, or anything that you did that you realised wasn’t necessary or could be done a different or better way?

## References

Any references you might use should go here…