**Software Implementation and Testing Document**

**For**

**“Resistor Calulator”**

Version 1.0

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# Programming Languages (5 points)

*List the programming languages use in your project, where you use them (what components of your project) and your reason for choosing them (whatever that may be).*

We will be using object-oriented programming.

The programming language that we will be using is java all throughout the project except for the login. For login features SQL will be used. The reason we chose java is because it will be easier to implement the UI and we used SQL for the login because that is what is commonly used.

# Platforms, APIs, Databases, and other technologies used (5 points)

*List all the platforms, APIs, Databases, and any other technologies you use in your project and where you use them (in what components of your project).*

We will be using Github, SQL, IntelliJ IDEA, command prompt, Notepad++.

Github is used to upload all the work that we have done. SQL is used for all login related features. IntelliJ IDEA will be used to write the java code. The command prompt and Notepad++ will be backups just in case some members won’t be able to get IntelliJ IDEA to download or to work. Notepad++ might have some issues but it has worked before for a group member.

# Execution-based Functional Testing (10 points)

*Describe how/if you performed functional testing for your project (i.e., tested for the* ***functional requirements*** *listed in your RD).*

# Execution-based Non-Functional Testing (10 points)

*Describe how/if you performed non-functional testing for your project (i.e., tested for the* ***non-functional requirements*** *listed in your RD).*

# Non-Execution-based Testing (10 points)

*Describe how/if you performed non-execution-based testing (such as code reviews/inspections/walkthroughs).*