**Software Implementation and Testing Document**

**For**

**Group TLH Covid-19 Tracker**

Version 1.0

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# Programming Languages (5 points)

*We used Angular (TypeScript, HTML, CSS) for the front-end design. We will use Node for the backend and SQL for the database.*

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

*We used Angular Material and Boostrap for design purposes on the front-end. We will use a Rest-API and postman managing the API.*

# Execution-based Functional Testing (10 points)

*1. Have editable table; table has editable capacity, but dlete functionality is not working as it is not fully built in yet.*

*2.. Have secure login and registration-high*

*We were not able to test as we have not yet used Firebase or outh to have a built in secure login*

**Have home/info page-medium**

*We have a fully built out info/home page*

*4.have working reactive form-low*

*No reactive form to test on yet*

send data to backend and retrieve data from backend-high

*no backend built to test on yet*

*6. store data in sql database-medium*

*No database set up yet*

# 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).*

1. *Setting up of a secure login to view the data. This will be done through Google Firebase.*

*We have looked into firebase and have a test application with secure authentication but have not yet applied it on the website to test on*

1. *Safety of the data being entered through registered users and validity of the data*

*We were able to change all data in editable so the safety tested is not yet secure. We are yet to build a way to prevent data tampering.*

1. *The reliability of the data being shown is crucial as the wrong data could produce bad or biased results with analysis.*

*We are putting specific datatypes for the angular form to test on.*

*Cross platform and inter version compatibility to run on any device. Containerize code*

# Non-Execution-based Testing (10 points)

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

*We have had code reviews in the biweekly meetings where we walked each other through the current code and watched us put pand push to the repos.*