**Software Implementation and Testing Document**

**For**

**Group TLH Covid-19 Tracker**

Version 2.0

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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 Bootstrap 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 delete functionality is not working as it is not fully built in yet.*

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

* *We attempted to build a secure login with the use of Firebase, but were not fully successful.*

**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 fully functioning secure login to view the data. Done through Google Firebase. We have a test application and attempted to apply it into the website but is not yet fully functional.*
2. *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.*
3. *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 and push to the repos.*