Group1

SFT221\_NDD

Final testing summary report

# Test requiements

* Display correct map
* Correct calculation for capcity of truck
* Truck selection according to available route and truck
* Return best route for shipment
* Validate user input(Weight/Volume of box)
* Validate user input(Destination)
* Display correct output to user

# Test Types

* Black-box test
* White-box test
* Unit test
* Integration test
* Acceptance test

# Tested Functions

* printMap
* getNumRows
* getNumCols
* addRoute
* checkTruckWeightCap
* calCapacity
* validBoxSize
* distance
* validPackageWeight
* bestRoute

# Test Description

* Validation : Conduct thorough testing to validate user input before acceptance. This process encompasses the verification of four crucial aspects: the weight and volume of the shipment box, as well as the column and row values of the destination point. Tests have been implemented to assess adherence to the specified limitations during validation.
* Map : Conducted testing to ensure accurate mapping, validating that the code is displayed in the correct location, including both the designated row and column.
* Route : Conducted comprehensive testing to verify the accurate calculation of available routes, ensuring the functionality of comparing routes and returning the shortest path.

# Final Summary

The testing process did a good job by checking the system in various ways, like making sure the map shows up correctly, the truck can carry the right amount, and routes are chosen properly. However, we can make it even better. We should describe each test in more detail, saying exactly what we're testing and what we expect to happen. Also, we should be clearer about what success looks like for each test. It would be helpful to test what happens when things go wrong, like when the user gives the system the wrong information. Lastly, writing down why we're doing each test and any potential issues could make everything easier to understand.

In short, while the testing process is good, making tests more detailed, defining clear success rules, trying out what happens when things go wrong, and adding more explanations can make it even better.