Final Test Report

Throughout the course of this project, we adopted a comprehensive testing strategy, encompassing Blackbox Unit Testing, Whitebox Unit Testing, Integration Testing, and culminating in Acceptance Testing. Our testing regime aimed to ensure the reliability and functionality of the implemented functions, ultimately leading to successful route determination based on factors like package weight and volume. When we did Blackbox Unit Testing for all the functions we created, we considered the possible inputs the user can enter and compared the expected and actual outputs. Throughout this project, we have discovered some major bugs during Unit Testing. Multiple such bugs were identified and fixed one by one by the programming team while the other teams made cases and implementation of those cases. These are the four tests done in steps to achieve the goal of knowing which truck to take based on the route, package’s weight, and volume.

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| --- | --- | --- | --- |
| Function/acceptance/requirement | Test Run | Bugs Fixed | Passed |
| Did not handle negative coordinates | TF001 | Negative coordinate handling improved | þ |
| Inability to store coordinate characters such as 7Y | TF002 | Coordinate character storage resolved | þ |
| Unable to assign correct shipment | TF003 | Assigning shipment properly to trucks resolved | þ |
| Termination of the program when truck gets called | TF004 | getTruck termination issue resolved | þ |

We encountered a few bugs and issues with the code but step by step we completed every point and managed to pass all the bugs and test cases. All in all this milestone taught us a lot of stuff about software testing and testing as an industry in the software world.