# Acceptance Tests

* Business Requirement 1: Only accept packages with weight less or equal to 1200 kg
  + Result: this requirement has been met. Our application validates the package before it is sent out for delivery. The specific functionality is provided by validatePackage function.
* Business Requirement 2: Only accept packages with size 0.5, 1, and 5 in cubic meters, and weight not exceeding 1200 kg
  + Result: this requirement has been met. Our application validates the package before it is sent out for delivery. The specific functionality is provided by validatePackage function.
* Business Requirement 3: Packages should be loaded onto a truck with more available space if the distance is the same.
  + Result: this requirement has been met. Our application take both route length and the remaining capacity of the delivery truck into consideration when calculating the optimal delivery path for the package.
* Business Requirement 4: Only accept deliveries to valid destinations
  + Result: this requirement has been met. Our application will reject packages with invalid destination based on the delivery map.
* Business Requirement 5: Display customer UI that accepts packages
  + Result: this requirement has been met. Our application will start with a display of the menu that prompt user to enter information regarding the package, if it is not valid, our application will ask user to enter again if they wish to. If it is valid, our application will calculate the delivery path and ideally display the delivery path. The user can exit anytime by typing in the exit code.
* Business Requirement 6: Based on the specifications of the package and the destination, calculate the route, the truck and any diversion needed for the delivery
  + Result: this requirement has been met. Our application has the core logic to calculate the optimal delivery route for a validated package and accounts for shortest path and truck capacity. If all of the delivery trucks are full or about to be full if the package is added to truck, the package will be stored in the storage and delivered the next day.
* Business Requirement 7: display the route selection and the delivery path after customer enters the information about the package
  + Result: this requirement was not met. Our application was not able to print our the delivery path for a given package. There are on-going issues that our team is trying to fix, however, at the time of this report being written, the issues have not been resolved. We are dedicated to continue the development of the application and we are hopeful we will deliver a satisfactory produce in the near future.