Unit testing of the check\_cart function

The objective of the check\_cart function is for when a user wants to see all the products that are in the cart, but also given the option to checkout if desired.

The checkout function takes as input a user with a name and amount in wallet, and a cart as a list. Also, the check\_cart function calls the checkout function if the users requests to checkout. Thus, a stub of the checkout function was created to examine the behavior of the check\_cart function. Tests are created through adjusting possible user inputs and the check\_cart inputs (user and cart).

The function does not have documentation that outlines the valid inputs. Therefore, the input domain was studied, resulting in the following equivalence classes (EC):

1. Product in cart, but no checkout
2. Product in cart, checkout
3. Multiple products in cart, checkout
4. An empty cart, checkout
5. Multiple products in cart, but no checkout
6. Wrong input to checkout
7. An empty cart, no checkout
8. Insufficient wallet funds, no checkout
9. Product in cart with negative price, checkout
10. Product in cart with negative units, checkout

A test case for each equivalence class will be made. In depth information about the test cases are presented in the “check\_cart function testing document”.

In order to execute all of the test requirements a fixture for the cart was made to reduce repetition of initializing it.