**UI Test- Functional Test**

1. **Equivalence partitioning for input variables**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Partition ID | | Input variable | | Valid partition | | Invalid partition |
| This is for menu(), | | | | | | |
| 1 | | ch | | 0 <= ch <= 3 | | ch = string |
| 2 | | ch | | ch = int | | ch = character |
| 3 | | ch | | ch = 0 | | ch = special character |
| This is for addProductToCart() and removeProductFromCart() | | | | | | |
| 4 | | Pid | | Pid = int | | Pid = float |
| 5 | | Pid | | pid = 2 | | Pid = special character |
| 6 | | Pid | | Pid = 5 | | Pid = string or char |
| TESTING THESE ON THE OUTPUT | | | | | | |
| ch is user input variable. Depending on which phase of the menu, the ch value will take you to the next corresponding menu. | | | | | | |
| 7 | | Ch = 0 | | Exit menu is written to console | | Store menu displayed |
| 8 | | Ch = 1 | | Display Store Products menu is written to the console | | Exit menu displayed |
| 9 | | Ch = 2 | | Your cart is displayed (even if empty) | | Store account menu is displayed |
| 10 | | Ch = 3 | | Bank account creation menu is displayed | | Cart is displayed |
| 11 | | Ch= 1.5555 | | Exception is thrown | | Store Products Menu is displayed |
| Pid is user input variable for product id. User will select a specific product to add or remove from cart | | | | | | |
| 12 | Pid = 1 | | Specific product is added / removed from cart | | Wrong product added to cart | |
| 13 | Pid = .55 | | Exception is thrown | | Actual item gets added | |

1. **Test cases for each partition**

|  |  |  |  |
| --- | --- | --- | --- |
| Test ID | Test inputs | Expected output | Partition ID covered |
| 1 | Ch = 1 | Specific menu shown | 1 |
| 2 | Ch = ‘abc’ | Error / exception thrown | 2 |
| 3 | ch= !! | Error / exception thrown | 3 |
| 4 | Ch = 0 | Exit Menu displayed | 4 |
| 5 | Ch = 1 | Store Product Menu Displayed | 7 |
| 6 | Ch = 2 | Cart is displayed | 8 |
| 7 | Ch = 3 | Bank Account Menu is displayed | 9 |
| 8 | Ch = float (1.444) | Exception thrown | 10 |
| 9 | Pid = 3 | Specific item is added or removed from cart | 4 |
| 10 | Pid = \*\* | Exception is thrown | 5 |
| 11 | Pid = ‘a’ | Exception is thrown | 6 |
| 12 | Pid = 1 | Product 1 is added or removed from cart | 12 |
| 13 | Pid = .356 | Exception is thrown | 13 |

1. **Junit implementation**

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