

Project Name: Online shopping cart	
Automation Title: test_check_cart	Version: 1.0
Testing Phase: Phase 1	Date of Test: 27/11/2024
Module Name: shopping_cart.py	

Function Title: The check_cart(user, cart)	Test Designed by: Rushidharan Baskar
Test Priority (Low/Medium/High): Medium	Test Designed Date: 26/11/2024
Description: The check_cart(user, cart) function verifies the status of the user's shopping cart, ensuring it contains items and that the total cost of the cart does not exceed the user's available wallet balance. It may also confirm if the cart is empty or if any further actions are needed.	Test Executed by: Rushidharan Baskar
	Test Execution date: 27/11/2024

S. No	Equivalence Class	Test Case	Expected Results	Actual Results	Status (Pass/Fail)	Notes
1	VEC1	User has a wallet of 50.0, cart contains 1 product with total price 20.0.	Returns True.	Returns True.	Pass	Single product within user's budget.
2	VEC2	User has a wallet of 100.0, cart contains 2 products with total price 50.0.	Returns True.	Returns True.	Pass	Multiple products within user's budget.
3	VEC3	User has a wallet of 50.0, cart contains 1 product with price 5.0 and 10 units.	Returns True.	Returns True.	Pass	Total price matches wallet capacity.
4	VEC4	User has a wallet of 30.0, cart contains 1 product with total price 30.0.	Returns True..	Returns True.	Pass	User's wallet matches the exact price.

5	VEC5	User has a wallet of 100.0, cart is empty.	Returns True.	Returns True.	Pass	No items in the cart; no funds required.
6	VEC6	User has a wallet of 20.0, cart contains fractional prices with total price 20.0.	Returns True.	Returns True.	Pass	Handles fractional product prices.
7	VEC7	User has a wallet of 100.0, cart initially contains products worth 120.0; one product worth 40.0 removed.	Returns True.	Returns True.	Pass	Correct price recalculation after product removal.
8	VEC8	User has a wallet of 150.0, cart contains products worth 150.0.	Returns True.	Returns True.	Pass	Total price matches budget exactly.
9	VEC9	User has a wallet of 5000.0, cart contains products worth 3500.0.	Returns True.	Returns True.	Pass	Handles high wallet balances and expensive products.
10	VEC10	User has a wallet of 50.0, cart contains products with valid non-negative prices but total price 350.0.	Returns True.	Returns True.	Pass	Checks cart for valid product prices only.
11	IEC1	User has a wallet of 20.0, cart contains products with total price 50.0.	Raises ValueError with message "Insufficient funds".	Raises ValueError with message "Insufficient funds".	Pass	Correctly identifies insufficient funds.
12	IEC2	User has a wallet of 100.0, cart contains a product with negative price -10.0.	Raises ValueError with message "Invalid product price".	Raises ValueError with message "Invalid product price".	Pass	Validates against negative product prices.
13	IEC3	User has a wallet of 100.0, cart is <b>None</b> .	Raises AttributeError due to invalid cart object.	Raises AttributeError due to invalid cart object.	Pass	Handles invalid cart objects gracefully.
14	IEC4	User object does not have a <b>wallet</b> attribute, cart contains valid products.	Raises AttributeError due to missing wallet attribute in user.	Raises AttributeError due to missing wallet attribute in user.	Pass	Ensures user object has required attributes.