**Q: 15**

**Title:**

L2 - Multi-User Shopping Cart with localStorage

**Problem Statement:**

Build a **Multi-User Shopping Cart** application that allows:

1. Users to log in by entering a unique username.
2. Each user to have a separate shopping cart stored in localStorage. Cart data should include:
   * Item name.
   * Price.
   * Quantity.
   * Total cost per item.
3. The cart display should dynamically update with the following functionalities:
   * Add items to the cart.
   * Edit the quantity of items.
   * Remove items.
   * Display the total cost for all items.
4. Ensure cart data is stored as a JSON object where each key is the username, and the value is the corresponding cart data.

**Core Requirements:**

* Use JSON.stringify() and JSON.parse() to handle structured cart data.
* Implement validation to ensure unique usernames and proper item quantities.
* Automatically load the user's cart when they log in and save changes in real-time.

**Example Structure in localStorage:**

{

"user1": [

{ "itemName": "Laptop", "price": 1000, "quantity": 1 },

{ "itemName": "Mouse", "price": 20, "quantity": 2 }

],

"user2": [

{ "itemName": "Keyboard", "price": 50, "quantity": 1 }

]

}

**Submission Guidelines:**

* Submit your Masai Git directory link with the solution.
* Include a [README.md](http://readme.md/) file explaining your implementation.