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#include <iostream>
#include <fstream>
#include <iomanip>

using namespace std;
//                          counters_________
int cho = 0, changequan = 0, y = 0, t, w, s, k;
string out, change, dis;

//Structure for inventory
struct inven
{
        string box;
        int quan;
        double price;
        string pro;
} x[100];

// Function Set
void menu();
void disinv();
void def();
void cas6();
void no();
void enter();

int main()
{
// Loop for menu to repeat until option 6
        do {
                menu();
// Using swithc for menu choices
                switch (cho)
                        {
                        case 1:
                                if (x[100].quan >= 1)
                                        {cout << "Sorry Inventory is full";
                                                break;}
                                else
                                        enter();
                                                break;

                        case 2:
                                t = 0;
                                cout << "Enter product name of product to remove: ";
                                cin.ignore(100, '\n');
                                getline(cin, out);
                                cout << endl;

                        while (out != x[t].pro && t < 101)
                                t++;

                                if (out == x[t].pro)
                                  {
                        x[t].box = "";
                        x[t].price = 0;
                        x[t].pro = "";
                        x[t].quan = 0;
                                cout << "Product has been removed" << endl << endl;
                                  }
                                else
                                  no();
                                break;

                        case 3:
                                cout << "Enter product name of product to modify: ";
                                cin.ignore(100, '\n');
                                getline(cin, change);
                                cout << endl;

                                w = 0;
                                while (change != x[w].pro && w < 101)
                                                                        w++;
                                if (change == x[w].pro)
                                        {
                                        cout << "Enter desired change to quantity (use negative value to decrease quantity) ";
                                                cin >> changequan;

                                        x[w].quan = (x[w].quan + changequan);
                                        }
                                else
                                        no();
                                break;

                        case 4:
                                cout << "Enter product name of product to find: ";
                                cin.ignore(100, '\n');
                                getline(cin, dis);
```

```
                        cout << endl;

                        s = 0;
                        while (change != x[s].pro && s < 101)
                                                        s++;
                        if (dis == x[s].pro)
                                {
                                cout << "Product Name: " << x[s].pro << endl <<
                                "Locator: " << x[s].box << endl <<
                                "Quantity: " << x[s].quan << endl <<
                                "Price: " << x[s].price << endl << endl;
                                }
                        else
                                no();
                        break;

                case 5:
                        disinv();
                        cout << endl;
                        break;

                case 6:
                        cas6();
                        break;

                default:
                        def();
                        break;
        } y++;}
    while (cho != 6);


    return 0;
}

    void menu()
    {
        cout << "Manage Inventory Menu" << endl << endl <<
        "1. Add product" << endl <<
        "2. Remove product" << endl <<
        "3. Adjust quantity of a product" << endl <<
        "4. Display a product" << endl <<
        "5. Display inventory sorted by product name" << endl <<
        "6. Quit the Program" << endl << endl <<
        "Enter your choice: ";

        cin >> cho;

        cout << endl;
    }

    void enter()
    {
        cout << "Enter the locator (no spaces): ";
            cin >> x[y].box;
        cout << endl << "Enter the new product name: ";
            cin.ignore(100, '\n');
            getline(cin, x[y].pro);
        cout << endl << "Enter the quantity (0 or more): ";
        cin >> x[y].quan;
        cout << endl << "Enter the price (greater than 0) : ";
            cin >> x[y].price;
        cout << endl;
    }

    void disinv()
    {
        k = 0;
        while (x[k].quan > 0)
        {
            cout << x[k].box << "\t" << x[k].quan << "\t" << x[k].price << "\t" << x[k].pro << endl;
            k++;
        }
    }

    void cas6()
    {
         cout << "Exiting the program.";
    }

    void def()
    {
        cout << "Invalid Entry! Please Try Again" << endl << endl;
    }

    void no()
    {
        cout << "No product found with this product name." << endl << endl;
    }
```