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#include <iostream>
using namespace std;

const int MAX = 10;

class Seller {
    string username;
    string password;

public:
    Seller(string username, string password) : username(username), password(password) {}

    bool login(string username, string password) {
        if (this->username == username && this->password == password) {
            cout << "Login Success\n";

            return true;
        } else {
            cout << "Username or Password is wrong. Try again.\n";
            return false;
        }
    }
};

class Product {
public:
    Product(){}
    string name;
    double price;
    int quantity;

    Product(string name, double price, int quantity) : name(name), price(price), quantity(quantity) {}
};

class Productcat {
    Product product[MAX];
    int productcount = 0;

public:
    Productcat() {}

    void add(string name, double price, int quantity) {
        if (productcount < MAX) {
            product[productcount] = Product(name, price, quantity);
            cout << "Product Added successfully...\n";
            productcount++;
        } else {
            cout << "Limit reached...\n";
        }
    }
}

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void display() {
    if (productcount == 0) {
        cout << "No products found\n";
    } else {
        for (int i = 0; i < productcount; i++) {
            cout << "Name: " << product[i].name << ", Price: " << product[i].price << ", Quantity: " <<
product[i].quantity << endl;
        }
    }
}

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};

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int main() {
    int choice;
    string username;
    string password;
    Seller seller("", "");
    Productcat cat;

    do {
        cout << "1. Register\n2. Login\n3. Exit\n";
        cin >> choice;

        switch (choice) {
            case 1:
                cout << "Enter UserName: ";
                cin >> username;
                cout << "Enter Password: ";
                cin >> password;
                seller = Seller(username, password);
                cout << "Registration successful\n";
                break;

            case 2:
                cout << "Enter UserName: ";
                cin >> username;
                cout << "Enter Password: ";
                cin >> password;

                if (seller.login(username, password)) {
                    cout << "\t\t****Welcome****\n";
                    int poption;
                    string pname;
                    double pprice;
                    int pquantity;
                    Productcat cat;
                    do {

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    cout << "1. Add product\n2. Remove product\n3. Update Product\n4. List items\n0. Return to main
menu\n";

    cin >> poption;

    switch (poption) {
        case 1:
            cout << "Enter product name: ";
            cin >> pname;
            cout << "Enter the product price: ";
            cin >> pprice;
            cout << "Enter product quantity: ";
            cin >> pquantity;
            cat.add(pname, pprice, pquantity);
            break;
        case 2:
            cout<<"enter the name of product to delete\n";
            cin>>pname;
            cat.remove(pname);
        case 4:
            cat.display();
            break;
        case 0:
            break;
        default:
            cout << "Choose the right product management option\n";
    }
    } while (poption != 0);
}
break;

case 3:
    cout << "Exiting...\n";
    break;

default:
    cout << "Choose the right option\n";
    break;
}

} while (choice != 3);

return 0;
}

```