

INTERNET APPLICATION DEVELOPMENT

LAB 06

this is lab 6 Problem 1) Refer to Lab 1 (Problem 1), Lab 4 (Problems 3 and 4) and Lab 5 (Problems 1 to 4). You are required to design and implement a Role-Based Access Control mechanism for Pine Valley Furniture Company interfaces developed so far in the above-mentioned problems. (a) As an initial step, enhance the schema of the PVFC database. Write an enhanced schema below. (b) Next, enhance the solutions for the above-mentioned problems to take advantage of the modified schema and incorporate role-based access control for all interfaces. Write the updated code for any one of the above problems below? explain in simple terms what you have to do?

DB UPDATED CODE:

```
----- RBAC for admin and customer -----
-- ROLES TABLE
CREATE TABLE ROLES_t (
    Role_Id INT PRIMARY KEY,
    Role_Name VARCHAR(20)
);

-- USERS TABLE
CREATE TABLE USERS_t (
    User_Id INT PRIMARY KEY,
    Username VARCHAR(50),
    Password VARCHAR(50),
    Role_Id INT,
    CONSTRAINT USERS_FK1 FOREIGN KEY (Role_Id) REFERENCES ROLES_t(Role_Id)
);

-- Insert Roles
INSERT INTO ROLES_t VALUES (1, 'Admin');
INSERT INTO ROLES_t VALUES (2, 'Customer');

-- Insert Users
INSERT INTO USERS_t VALUES (1, 'admin', '123', 1);
INSERT INTO USERS_t VALUES (2, 'customer', '123', 2);
```

PVFC Login

Username

Password

Login

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Pine Valley Furniture Company

Choose an Option

New Customer Registration	Search Products
Place Order	Update Catalog
Make Payment	Help / Guide

AFTER LOGGING IN AS A CUSTOMER:

<h3>New Customer Registration</h3> <p>Customer ID <input type="text"/></p> <p>Customer Name <input type="text"/></p> <p>Customer Address <input type="text"/></p> <p>City <input type="text"/></p> <p>State <input type="text"/></p> <p>Postal Code <input type="text"/></p> <p>Register</p> <p>Customer cannot register a new customer.</p> <p>Back to Home</p>	<h3>Search Products</h3> <p>Enter Product Name <input type="text" value="desk"/></p> <p>Search</p> <p>Computer Desk - \$375.00 8-Drawer Desk - \$750.00 Computer Desk - \$250.00</p> <p>Back to Home</p>
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Update Product Catalog

Product ID

New Product Name

New Price

Customer cannot update product catalog.

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Place Order

Order ID

Customer ID

Order Date (YYYY-MM-DD)

Product ID

Quantity

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Payment

Order ID

Card Number

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Customer Help / User Guide

How to Login

- Open the Login page.
- Enter your username and password.
- Click the Login button.

How to Search Products

- Go to the Search Products page.
- Type the product name, such as Table or Desk.
- Click Search to view matching products and prices.

How to Place an Order

- Go to the Place Order page.
- Enter Order ID, Customer ID, Order Date, Product ID, and Quantity.
- Click Place Order.
- If the order is saved, you will see a success message.

How to Make Payment

- Go to the Payment page.
- Click the Pay button.
- You will see a payment successful message.
- This is only a demo payment page.

AFTER LOGGING IN AS ADMIN:

PVFC Login

Username

Password

[Login](#)

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Update Product Catalog

Product ID

New Product Name

New Price

[Update](#)

[Back to Home](#)

New Customer Registration

Customer ID

Customer Name

Customer Address

City

State

Postal Code

[Register](#)

[Back to Home](#)

Place Order

Order ID

Customer ID

Order Date (YYYY-MM-DD)

Product ID

Quantity

[Place Order](#)

Admin cannot place order. Only customer can place order.

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Search Products

Enter Product Name

[Search](#)

[Back to Home](#)

Payment

Order ID

Card Number

[Pay](#)

Admin cannot make payment. Only customer can do payment.

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