

LAB 04

PROBLEM 03

PROBLEM STATEMENT

Problem 3) Refer to Lab 1 in which paper prototyping and HTML interfaces were developed for Pine Valley Furniture Company. The next task is to convert plain html into web forms in order to realize a web application. The application should incorporate following functionalities:

- i) New Customer Registration
- ii) Searching of Products
- iii) Products Selection and Order Placement
- iv) Product Catalog Update
- v) Payment Provision

(Develop in Visual studio and the host it on your site)

OUTPUTS

Pine Valley Furniture Company.

[Home](#) | [Place Order](#) | [Make Payment](#) | [Admin](#) | [Register](#) | [Login](#) | [Help](#)

Our Products

Pine Valley Furniture Company.

Place an Order

Select Product to Buy: ▼

Quantity:

Pine Valley Furniture Company.

Payment Provision

Order ID

Name

Card Number

Expiry Date

CVV

Pine Valley Furniture Company

Admin Panel

- [Update Product Catalog](#)
- [View Business Intelligence](#)
- [Logout](#)

Admin access granted.

Pine Valley Furniture Company

Business Intelligence

Customer Segmentation

Customers can be grouped based on purchase frequency and total spending.

User Profiling

System stores customer preferences, purchase history and behavior.

Targeted Marketing

Special offers can be sent to customers based on their buying patterns.

Recommendation System

System recommends products based on previous purchases.

Pine Valley Furniture Company

Update Product Catalog

Product ID	<input type="text"/>
Product Name	<input type="text"/>
Product Description	<input type="text"/>
Product Price	<input type="text"/>
Quantity	<input type="text"/>
<input type="button" value="Update"/>	

Product Updated Successfully

Pine Valley Furniture Company

User Help Guide

Registration

Fill all required fields and click Register.

Search Products

Enter product name or choose category to search.

Order Placement

Select products, enter quantity and click Place Order.

Payment

Enter valid card details and confirm payment.

Customer Registration

[Back to Home](#)

Customer ID	<input type="text"/>
Customer Name	<input type="text"/>
Customer Address	<input type="text"/>
Customer City	<input type="text"/>
Customer State	<input type="text"/>
Postal Code	<input type="text"/>
<input type="button" value="Register"/>	

Already have an account? [Login](#)

Login

[Back to Home](#)

Email	<input type="text"/>
Password	<input type="text"/>
<input type="button" value="Login"/>	

Don't have an account? [Register](#)

CODES

1. Default.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Default.aspx.vb" Inherits="_Default" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <div>
      <a href="Default.aspx"><h1>Pine Valley Furniture Company</h1></a>
      <a href="Default.aspx">Home</a> |
      <a href="Order.aspx">Place Order</a> |
      <a href="Payment.aspx">Make Payment</a> |
      <a href="Admin.aspx">Admin</a> |
      <a href="Register.aspx">Register</a> |
      <a href="Login.aspx">Login</a> |
      <a href="Help.aspx">Help</a>
      <hr />
      <asp:TextBox ID="txtSearch" runat="server" placeholder="Search Product"
Width="400px"></asp:TextBox>
      <asp:Button ID="btnSearch" runat="server" Text="Search" /><br /><br />
      <asp:Label ID="lblResult" runat="server"></asp:Label>
      <asp:Label ID="txtWelcome" runat="server" Text="<h2>Our Products</h2>"></asp:Label>
    </div>
  </form>
</body>
</html>
```

2. Default.aspx.vb

```
Partial Class _Default
  Inherits System.Web.UI.Page
  Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load

  End Sub
  Protected Sub btnSearch_Click(sender As Object, e As EventArgs) Handles btnSearch.Click
    lblResult.Text = "Searching for: " & txtSearch.Text
  End Sub
End Class
```

3. Order.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Order.aspx.vb" Inherits="Order" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <a href="Default.aspx"><h1>Pine Valley Furniture Company</h1></a>
```

```

<h2>Place an Order</h2>
Select Product to Buy:
<asp:DropDownList ID="ddlProduct" runat="server">
  <asp:ListItem>Chair</asp:ListItem>
  <asp:ListItem>Table</asp:ListItem>
  <asp:ListItem>Sofa</asp:ListItem>
  <asp:ListItem>Curtains</asp:ListItem>
</asp:DropDownList><br /><br />
Quantity:
<asp:TextBox ID="txtQuantity" runat="server"></asp:TextBox><br />
<asp:Button ID="btnOrder" runat="server" Text="Place Order" /><br />
<asp:Label ID="lblOrderStatus" runat="server"></asp:Label>

</form>
</body>
</html>

```

4. Payment.aspx

```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Payment.aspx.vb" Inherits="Payment" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <a href= "Default.aspx"><h1>Pine Valley Furniture Company</h1></a>
    <h1>Payment Provision</h1>
    <asp:Table ID="Table1" runat="server">
      <asp:TableRow>
        <asp:TableCell>Order ID</asp:TableCell>
        <asp:TableCell><asp:TextBox ID="txtOrderID" runat="server" placeholder="Order
ID"></asp:TextBox></asp:TableCell>
      </asp:TableRow>
      <asp:TableRow>
        <asp:TableCell>Name</asp:TableCell>
        <asp:TableCell><asp:TextBox ID="TextBox1" runat="server" placeholder="Cardholder
Name"></asp:TextBox></asp:TableCell>
      </asp:TableRow>
      <asp:TableRow>
        <asp:TableCell>Card Number</asp:TableCell>
        <asp:TableCell><asp:TextBox ID="txtCard" runat="server" placeholder="Card
Number"></asp:TextBox></asp:TableCell>
      </asp:TableRow>
      <asp:TableRow>
        <asp:TableCell>Expiry Date</asp:TableCell>
        <asp:TableCell><asp:TextBox ID="txtExpiryDate" runat="server"
placeholder="mm/yy"></asp:TextBox></asp:TableCell>
      </asp:TableRow>
      <asp:TableRow>
        <asp:TableCell>CVV</asp:TableCell>
        <asp:TableCell><asp:TextBox ID="txtCVV" runat="server" placeholder="Security
Code"></asp:TextBox></asp:TableCell>
      </asp:TableRow>
    </asp:Table>

    <asp:Button ID="btnPay" runat="server" Text="Pay Now" /><br />
    <asp:Label ID="lblPayment" runat="server"></asp:Label>
  </form>
</body>
</html>

```

5. Admin.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Admin.aspx.vb" Inherits="Admin" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <a href="Admin.aspx"><h1>Pine Valley Furniture Company</h1></a>
    <h1>Admin Panel</h1>

    <ul>
      <li><a href="Catalog.aspx">Update Product Catalog</a></li>
      <li><a href="BI.aspx">View Business Intelligence</a></li>
      <li><a href="Default.aspx">Logout</a></li>
    </ul>

    <p>Admin access granted.</p>
  </form>
</body>
</html>
```

6. Catalog.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Catalog.aspx.vb" Inherits="Catalog" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
  <title></title>
</head>
<body>
  <form id="form1" runat="server">
    <a href="Admin.aspx"><h1>Pine Valley Furniture Company</h1></a>
    <h1>Update Product Catalog</h1>

    <asp:Table ID="Table1" runat="server">
      <asp:TableRow>
        <asp:TableCell>Product ID</asp:TableCell>
        <asp:TableCell><asp:TextBox ID="txtProductID" runat="server"
></asp:TextBox></asp:TableCell>
      </asp:TableRow>
      <asp:TableRow>
        <asp:TableCell>Product Name</asp:TableCell>
        <asp:TableCell><asp:TextBox ID="txtProductName" runat="server"
></asp:TextBox></asp:TableCell>
      </asp:TableRow>
      <asp:TableRow>
        <asp:TableCell>Product Description</asp:TableCell>
        <asp:TableCell><asp:TextBox ID="txtProductDescription" runat="server"
></asp:TextBox></asp:TableCell>
      </asp:TableRow>
      <asp:TableRow>
        <asp:TableCell>Product Price</asp:TableCell>
        <asp:TableCell><asp:TextBox ID="txtProductPrice" runat="server"
TextMode="Number"></asp:TextBox></asp:TableCell>
      </asp:TableRow>
      <asp:TableRow>
        <asp:TableCell>Quantity</asp:TableCell>
        <asp:TableCell><asp:TextBox ID="txtQuantity" runat="server"
TextMode="Number"></asp:TextBox></asp:TableCell>
    </asp:Table>
  </form>
</body>
</html>
```

```

        </asp:TableRow>
    </asp:Table>

    <asp:Button ID="btnUpdate" runat="server" Text="Update" /><br /><br />
    <asp:Label ID="lblStatus" runat="server"></asp:Label>
</form>
</body>
</html>

```

7. BI.aspx

```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="BI.aspx.vb" Inherits="BI" %>
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <a href= "Admin.aspx"><h1>Pine Valley Furniture Company</h1></a>
        <h1>Business Intelligence</h1>

        <h2>Customer Segmentation</h2>
        <p>Customers can be grouped based on purchase frequency and total spending.</p>

        <h2>User Profiling</h2>
        <p>System stores customer preferences, purchase history and behavior.</p>

        <h2>Targeted Marketing</h2>
        <p>Special offers can be sent to customers based on their buying patterns.</p>

        <h2>Recommendation System</h2>
        <p>System recommends products based on previous purchases.</p>

    </form>
</body>
</html>

```

8. Help.aspx

```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Help.aspx.vb" Inherits="Help" %>
<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <a href= "Default.aspx"><h1>Pine Valley Furniture Company</h1></a>
        <h1>User Help Guide</h1>

        <h2>Registration</h2>
        <p>Fill all required fields and click Register.</p>

        <h2>Search Products</h2>
        <p>Enter product name or choose category to search.</p>

        <h2>Order Placement</h2>
        <p>Select products, enter quantity and click Place Order.</p>

        <h2>Payment</h2>

```

```
<p>Enter valid card details and confirm payment.</p>
```

```
</form>  
</body>  
</html>
```

9. Register.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Register.aspx.vb" Inherits="Register" %>
```

```
<!DOCTYPE html>
```

```
<html xmlns="http://www.w3.org/1999/xhtml">
```

```
<head runat="server">
```

```
<title>Registration Form</title>
```

```
<style>
```

```
body {
```

```
display: flex;  
justify-content: center;  
align-items: center;  
height: 100vh;  
margin: 0;
```

```
}
```

```
form {
```

```
width: 400px;  
background-color: #f3efef;  
padding: 20px;  
border-radius: 20px;  
box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
```

```
}
```

```
input[type=number],
```

```
input[type="text"],
```

```
input[type="email"],
```

```
input[type="password"],
```

```
textarea {
```

```
width: calc(100% - 20px);  
padding: 8px;  
margin-bottom: 10px;  
box-sizing: border-box;  
border: 1px solid #ccc;  
border-radius: 4px;
```

```
}
```

```
input[type="submit"]
```

```
{
```

```
padding: 10px 20px;  
border-radius: 5px;  
cursor: pointer;  
margin-left: 140px;
```

```
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<form id="form1" runat="server">
```

```
<center><h1>Customer Registration</h1></center>
```

```
<a href="default.aspx">Back to Home</a>
```

```
<fieldset>
```

```
<asp:Label ID="CustomerID" runat="server" Text="Customer ID"></asp:Label>
```

```
<asp:TextBox ID="txtCustomerID" runat="server" TextMode="Number"></asp:TextBox>
```

```
<asp:Label ID="CustomerName" runat="server" Text="Customer Name"></asp:Label>
```

```
<asp:TextBox ID="txtCustomerName" runat="server" ></asp:TextBox>
```

```
<asp:Label ID="address" runat="server" Text="Customer Address"></asp:Label>
```

```
<asp:TextBox ID="txtAddress" runat="server"></asp:TextBox>
```

```
<asp:Label ID="city" runat="server" Text="Customer City"></asp:Label>
```

```
<asp:TextBox ID="txtCity" runat="server"></asp:TextBox>
```

```
<asp:Label ID="state" runat="server" Text="Customer State"></asp:Label>
```

```
<asp:TextBox ID="txtState" runat="server"></asp:TextBox>
```

```
<asp:Label ID="postalCode" runat="server" Text="Postal Code" ></asp:Label>
```

```

        <asp:TextBox ID="txtPostalCode" runat="server"></asp:TextBox>
        <asp:Button ID="btnRegister" runat="server" Text="Register" />
    </fieldset>
    <p>Already have an account? <a href="Login.aspx">Login</a></p>
    <asp:Label ID="lblStatus" runat="server"></asp:Label>

</form>
</body>
</html>

```

10. Register.aspx.vb

```

Partial Class Register
    Inherits System.Web.UI.Page
    Protected Sub btnRegister_Click(sender As Object, e As EventArgs) Handles btnRegister.Click
        lblStatus.ForeColor = Drawing.Color.Green
        lblStatus.Text = "Registration Successful"
    End Sub
End Class

```

11. Login.aspx

```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Login.aspx.vb" Inherits="Login" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Login Form</title>
    <style>
        body {
            display: flex;
            justify-content: center;
            align-items: center;
            height: 100vh;
            margin: 0;
        }
        form {
            width: 400px;
            background-color: #f3fefef;
            padding: 20px;
            border-radius: 20px;
            box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
        }
        input[type="text"],
        input[type="email"],
        input[type="password"],
        textarea {
            width: calc(100% - 20px);
            padding: 8px;
            margin-bottom: 10px;
            box-sizing: border-box;
            border: 1px solid #ccc;
            border-radius: 4px;
        }
        input[type="submit"] {
            padding: 10px 20px;
            border-radius: 5px;
            cursor: pointer;
            margin-left: 140px;
        }
    </style>

```

```

</head>
<body>
  <form id="form1" runat="server">
    <center><h1>Login</h1></center>
    <a href="Default.aspx">Back to Home</a>
    <fieldset>
      <asp:Label ID="email" runat="server" Text="Email"></asp:Label>
      <asp:TextBox ID="txtEmail" runat="server" TextMode="Email"></asp:TextBox>
      <asp:Label ID="password" runat="server" Text="Password"></asp:Label>
      <asp:TextBox ID="txtPassword" runat="server" TextMode="Password"></asp:TextBox>
      <asp:Button ID="btnLogin" runat="server" Text="Login" />
    </fieldset>
    <p>Don't have an account? <a href="Register.aspx">Register</a></p>
    <asp:Label ID="lblStatus" runat="server" ForeColor="Red"></asp:Label>

  </form>
</body>
</html>

```

12. Login.aspx.vb

```

Partial Class Login
  Inherits System.Web.UI.Page
  Protected Sub btnLogin_Click(sender As Object, e As EventArgs) Handles btnLogin.Click
    If txtEmail.Text = "admin@pvfc.com" And txtPassword.Text = "1234" Then
      lblStatus.ForeColor = Drawing.Color.Green
      lblStatus.Text = "Login Successful"
      Response.Redirect("Admin.aspx")
    Else
      lblStatus.Text = "Invalid Email or Password"
    End If
  End Sub
End Class

```