

Implementation Report:

Lab 3 Q1) Consider the project database designed and implemented during previous semester i.e. Fall 2024. Its implementation was done using structured query language during previous semester. Try to recall major relations in your project database. You already have its report in printed form. There is a need to implement a web based solution for above mentioned database. The web based solution must incorporate various functionalities of your project. (1) Registration of Student/Patient/Passenger/Customer, or whatever is applicable in your project. (2) Search facilities including partial matches (3) Any other project specific functionalities (4) Role based access control (5) Payment system (if required).

CODE:

//Menu Page

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title>Supply Chain Management System</title>
```

```
  <style>
```

```
    body{
```

```
      font-family: Arial;
```

```
      background-color: #f0f8ff;
```

```
      padding: 40px;
```

```
      text-align: center;
```

```
    }
```

```
    h1{
```

```
      color: #004080;
```

```
    }
```

```
.menu-button {  
    display: inline-block;  
    margin: 20px;  
    padding: 15px 30px;  
    font-size: 18px;  
    background-color: #007acc;  
    color: white;  
    border: none;  
    border-radius: 8px;  
    cursor: pointer;  
    text-decoration: none;  
    transition: background-color 0.3s ease;  
}
```

```
.menu-button:hover {  
    background-color: #005b99;  
}
```

```
.container {  
    margin-top: 60px;  
}
```

```
</style>
```

```
</head>
```

```
<body>
```

```
<h1>Welcome to Supply Chain Management System</h1>
```

```
<div class="container">

    <a href="task1.aspx" class="menu-button">Customer Registration</a>

    <a href="task2.aspx" class="menu-button">Order Placement</a>

</div>

</body>

</html>
```

//Frontend code:

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="task1.aspx.vb"
Inherits="CustomerRegistration" %>

<!DOCTYPE html>

<html>

<head>

    <title>Customer Registration</title>

</head>

<body>

    <h2>Customer Registration</h2>

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

        <table>

            <tr><td>Name:</td><td><asp:TextBox ID="txtName" runat="server" /></td></tr>

            <tr><td>ID:</td><td><asp:TextBox ID="txtId" runat="server" /></td></tr>

            <tr><td>Contact:</td><td><asp:TextBox ID="txtContact" runat="server" /></td></tr>

            <tr><td>Email:</td><td><asp:TextBox ID="txtEmail" runat="server" /></td></tr>

            <tr><td>City:</td><td><asp:TextBox ID="txtCity" runat="server" /></td></tr>

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

```
<tr><td>Postal Code:</td><td><asp:TextBox ID="txtPostal" runat="server"
/></td></tr>

<tr><td>Street Address:</td><td><asp:TextBox ID="txtStreet" runat="server"
/></td></tr>

<tr><td>Status:</td><td><asp:TextBox ID="txtStatus" runat="server" /></td></tr>

<tr><td colspan="2"><asp:Button ID="btnRegister" runat="server" Text="Register"
OnClick="btnRegister_Click" /></td></tr>

<tr><td colspan="2"><asp:Label ID="lblMessage" runat="server" /></td></tr>

</table>

</form>

</body>

</html>
```

//Backend Code

Imports System.Data.SqlClient

Partial Class CustomerRegistration

Inherits System.Web.UI.Page

Protected Sub btnRegister_Click(sender As Object, e As EventArgs)

Dim conStr As String = "Data Source=DESKTOP-6EPGA6H;Initial
Catalog=SCMS;Integrated Security=True"

Dim con As New SqlConnection(conStr)

Dim query As String = "INSERT INTO CUSTOMER_T (CUSTOMER_ID, CUSTOMER_NAME,
CUSTOMER_CONTACT, CUSTOMER_EMAIL, CUSTOMER_CITY, CUSTOMER_STATE,
CUSTOMER_POSTALCODE, CUSTOMER_STREET_ADDRESS, CUSTOMER_STATUS)VALUES
(@Id, @Name, @Contact, @Email, @City, @State, @PostalCode, @Street, @Status)"

```
Dim cmd As New SqlCommand(query, con)
```

```
cmd.Parameters.AddWithValue("@Id", txtId.Text)
```

```
cmd.Parameters.AddWithValue("@Name", txtName.Text)
```

```
cmd.Parameters.AddWithValue("@Contact", txtContact.Text)
```

```
cmd.Parameters.AddWithValue("@Email", txtEmail.Text)
```

```
cmd.Parameters.AddWithValue("@City", txtCity.Text)
```

```
cmd.Parameters.AddWithValue("@State", txtState.Text)
```

```
cmd.Parameters.AddWithValue("@PostalCode", txtPostal.Text)
```

```
cmd.Parameters.AddWithValue("@Street", txtStreet.Text)
```

```
cmd.Parameters.AddWithValue("@Status", txtStatus.Text)
```

```
Try
```

```
    con.Open()
```

```
    cmd.ExecuteNonQuery()
```

```
    lblMessage.Text = "Customer Registered Successfully!"
```

```
Catch ex As Exception
```

```
    lblMessage.Text = "Error: " & ex.Message
```

```
Finally
```

```
    con.Close()
```

```
End Try
```

```
End Sub
```

```
End Class
```

Q1) Write code (code behind only) for any two of the interfaces below?**Aspx code**

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="task2.aspx.vb"
Inherits="OrderPlacement" %>

<!DOCTYPE html>

<html>

<head>

    <title>Order Placement</title>

</head>

<body>

    <h2>Order Placement</h2>

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

        <table>

            <tr><td>Order ID:</td><td><asp:TextBox ID="txtOrderId" runat="server" /></td></tr>

            <tr><td>Order Date:</td><td><asp:TextBox ID="txtOrderDate" runat="server"
/></td></tr>

            <tr><td>Customer ID:</td><td><asp:TextBox ID="txtCustomerId" runat="server"
/></td></tr>

            <tr><td>Payment Method:</td><td><asp:TextBox ID="txtPaymentMethod"
runat="server" /></td></tr>

            <tr><td colspan="2"><asp:Button ID="btnPlaceOrder" runat="server" Text="Place
Order" OnClick="btnPlaceOrder_Click" /></td></tr>

            <tr><td colspan="2"><asp:Label ID="lblOrderMessage" runat="server" /></td></tr>

        </table>

    </form>

</body>
```

</html>

Aspx.vb Code:

```
Imports System.Data.SqlClient
```

```
Partial Class OrderPlacement
```

```
    Inherits System.Web.UI.Page
```

```
    Protected Sub btnPlaceOrder_Click(sender As Object, e As EventArgs)
```

```
        Dim conStr As String = "Data Source=DESKTOP-6EPGA6H;Initial  
Catalog=SCMS;Integrated Security=True"
```

```
        Dim con As New SqlConnection(conStr)
```

```
        Dim query As String = "INSERT INTO ORDER_T (ORDER_ID, ORDER_DATE,  
CUSTOMER_ID, PAYMENT_METHOD)VALUES (@OrderId, @OrderDate, @CustomerId,  
@PaymentMethod)"
```

```
        Dim cmd As New SqlCommand(query, con)
```

```
        cmd.Parameters.AddWithValue("@OrderId", txtOrderId.Text)
```

```
        cmd.Parameters.AddWithValue("@OrderDate", txtOrderDate.Text)
```

```
        cmd.Parameters.AddWithValue("@CustomerId", txtCustomerId.Text)
```

```
        cmd.Parameters.AddWithValue("@PaymentMethod", txtPaymentMethod.Text)
```

```
        Try
```

```
            con.Open()
```

```
            cmd.ExecuteNonQuery()
```

```
    lblOrderMessage.Text = "Order Placed Successfully!"
```

```
    Catch ex As Exception
```

```
        lblOrderMessage.Text = " Error: " & ex.Message
```

```
    Finally
```

```
        con.Close()
```

```
    End Try
```

```
End Sub
```

```
End Class
```