

ART VAULT

Art Gallery Exhibition Database Management System

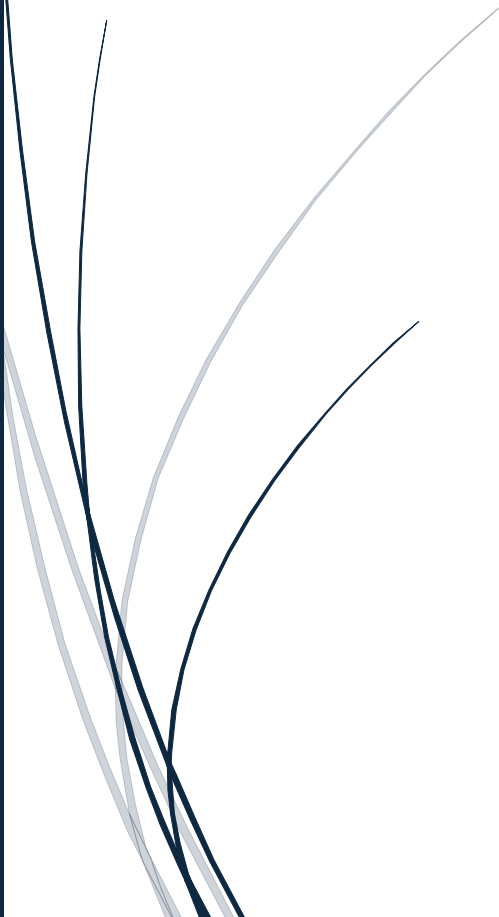
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Batch: **BS CIS 22-26**

Registration No: **03-3-1-007-2022**

Course: **IAD**

Submission Date: **20/05/2025**



1. Description:

ArtVault is a comprehensive, data-driven web application. The project showcases a secure, user-role-based digital platform for managing and showcasing artwork. ArtVault integrates essential web development concepts such as state management, validation, and data security, while also following modern software engineering practices including component-based architecture and database normalization.

For this Semester Project I have three users: Admin, Artist and Visitor (using the schema of customer)

2. Project Objectives

- Design and develop a web application to manage artwork and artist profiles.
- Implement user authentication and role-based access control (admin, artist, visitor).
- Apply state management and validation throughout the application.
- Ensure security for data transmission and storage.
- Deploy and test the application on a web hosting platform

3. Software Requirements Specification

- User registration and login.
- Artwork upload and categorization by artists.
- Admin dashboard for user and content management.
- Browsing and searching functionality for visitors.

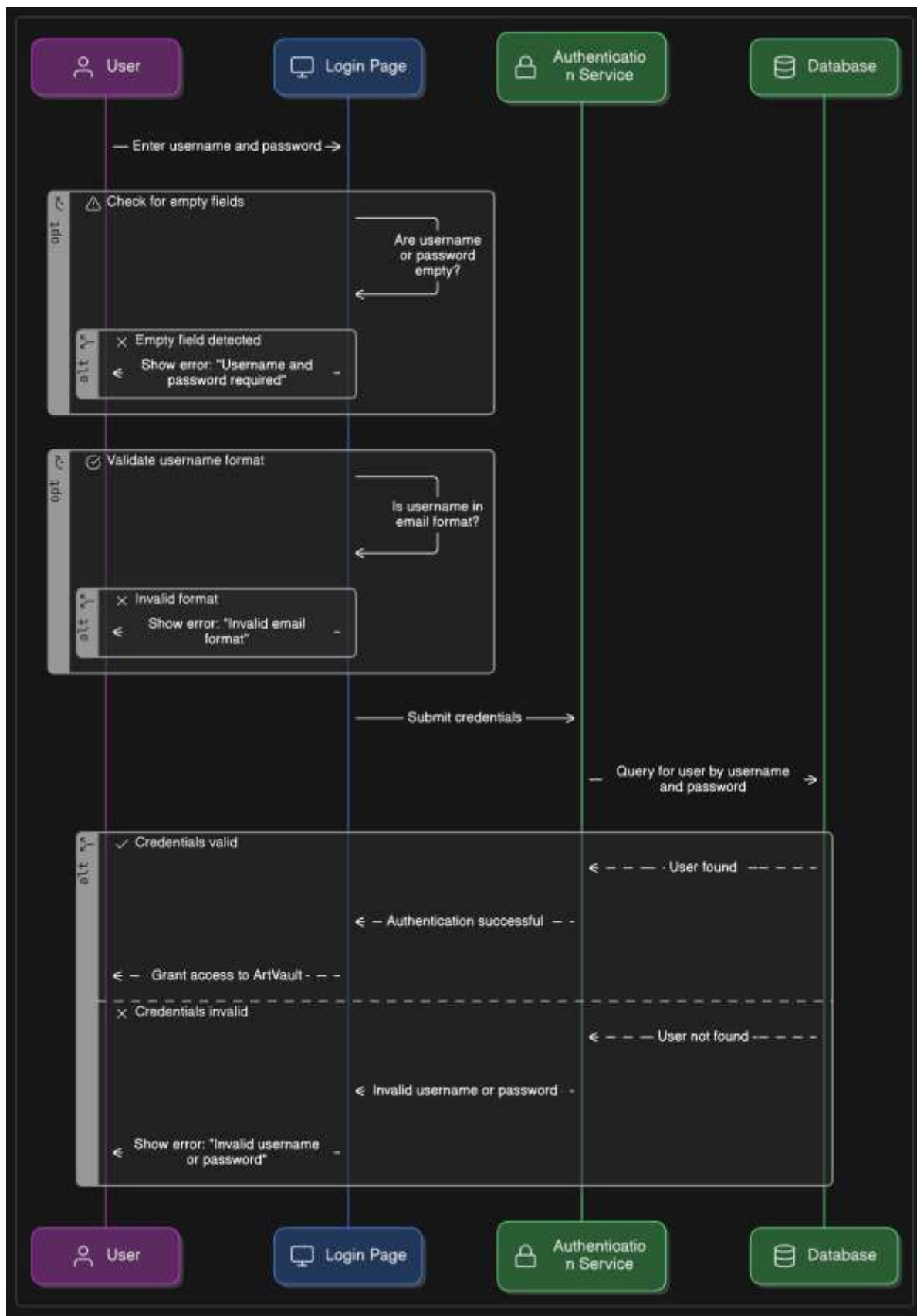
Analysis and Design

Use Case Model

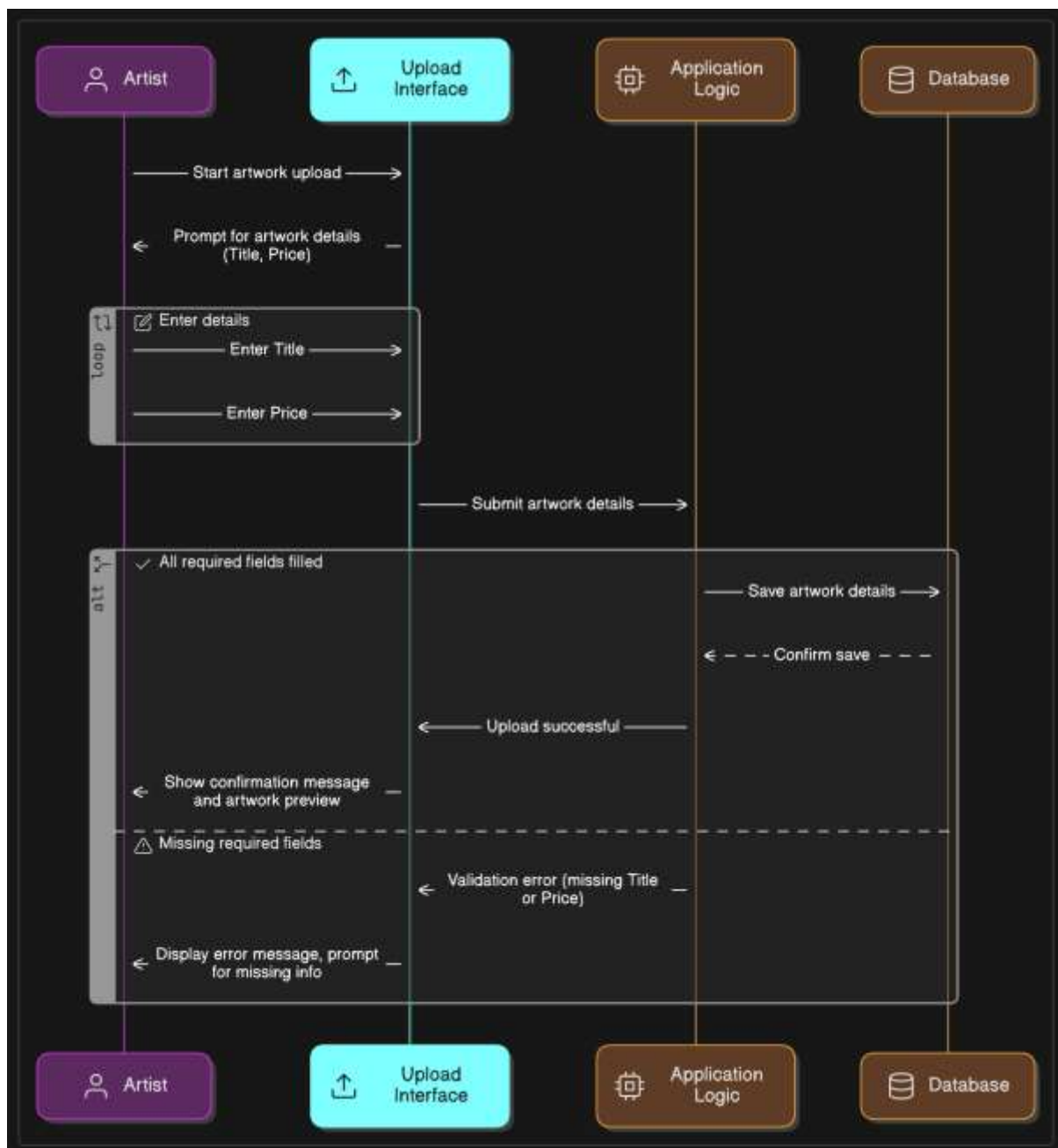


Sequence Diagrams

Login

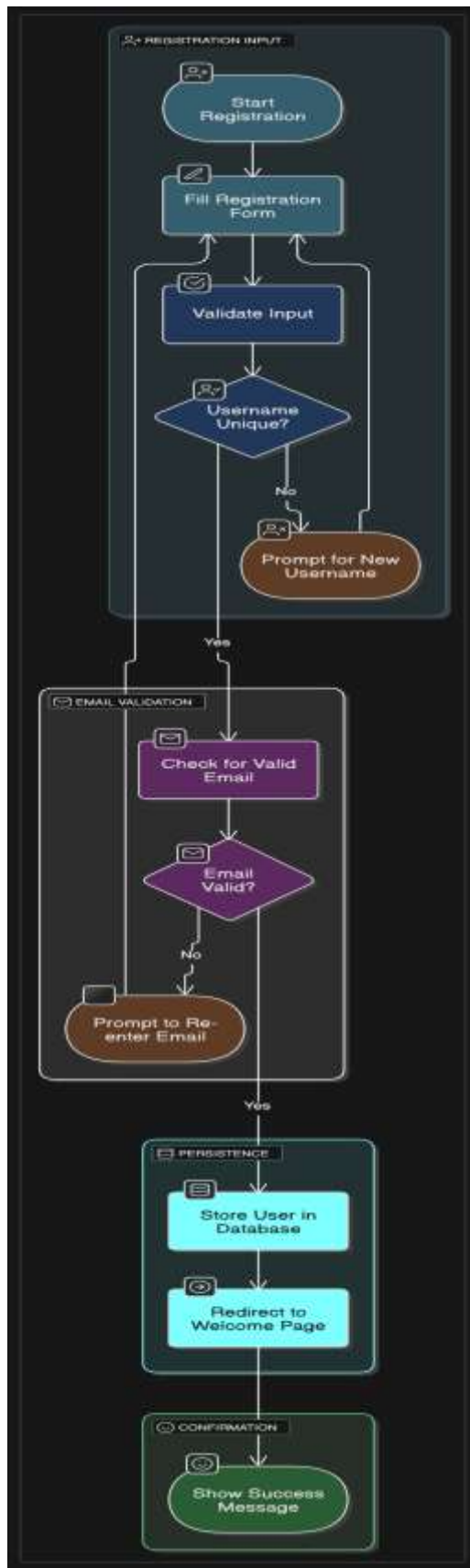


Artist

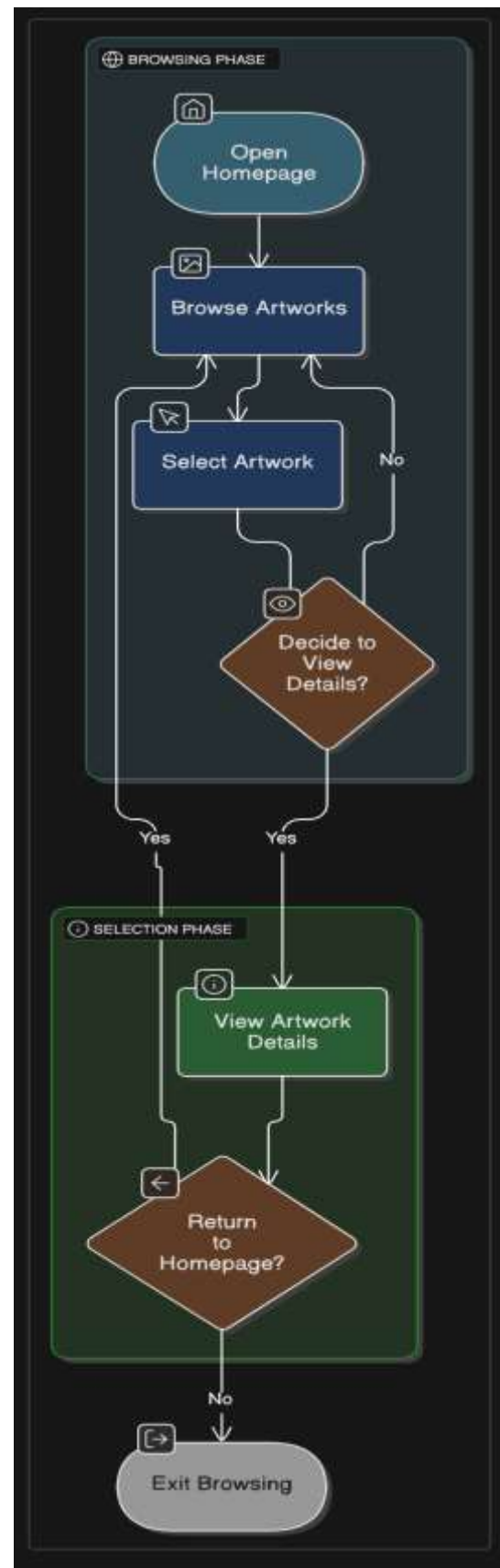


Activity Diagrams

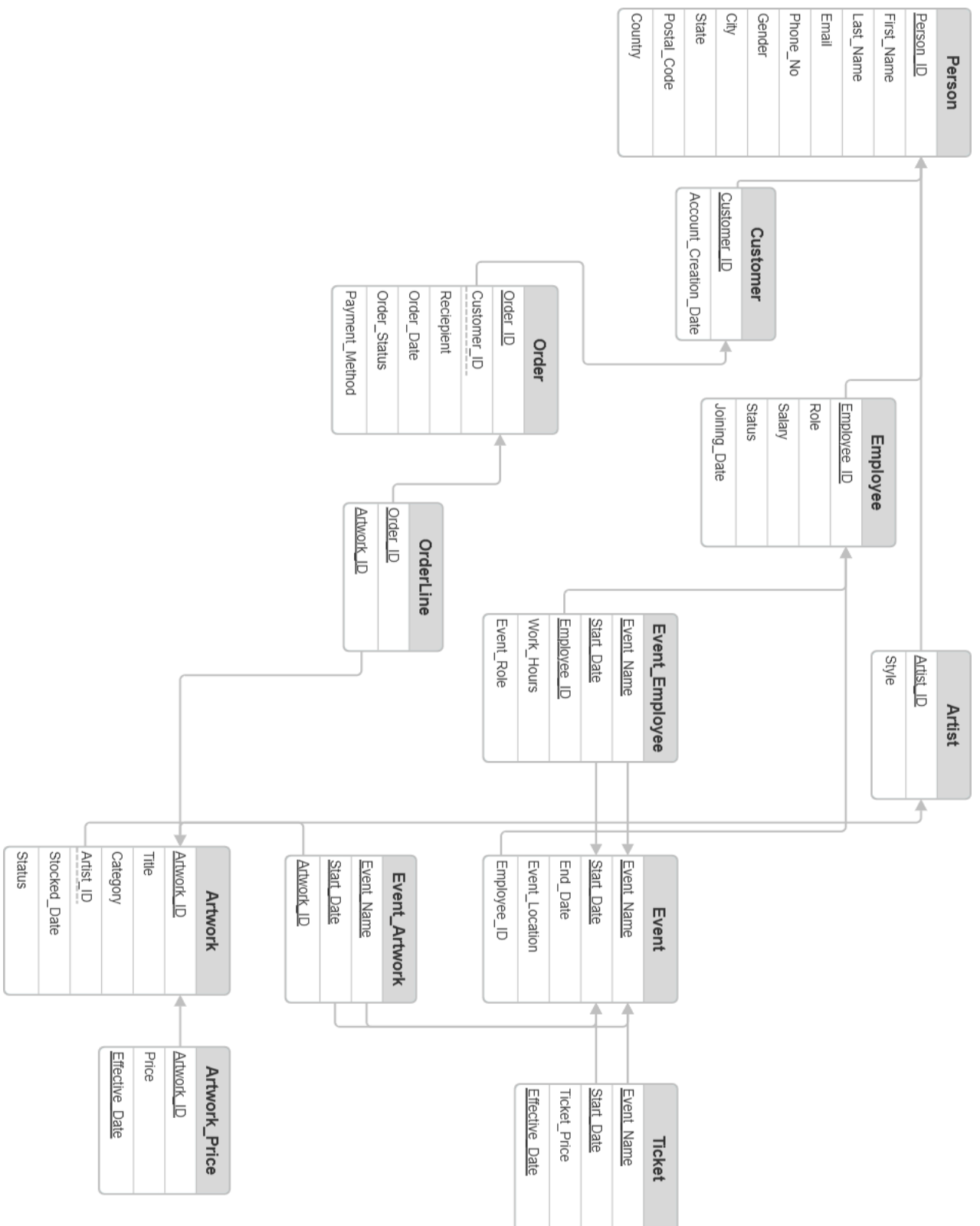
User registration



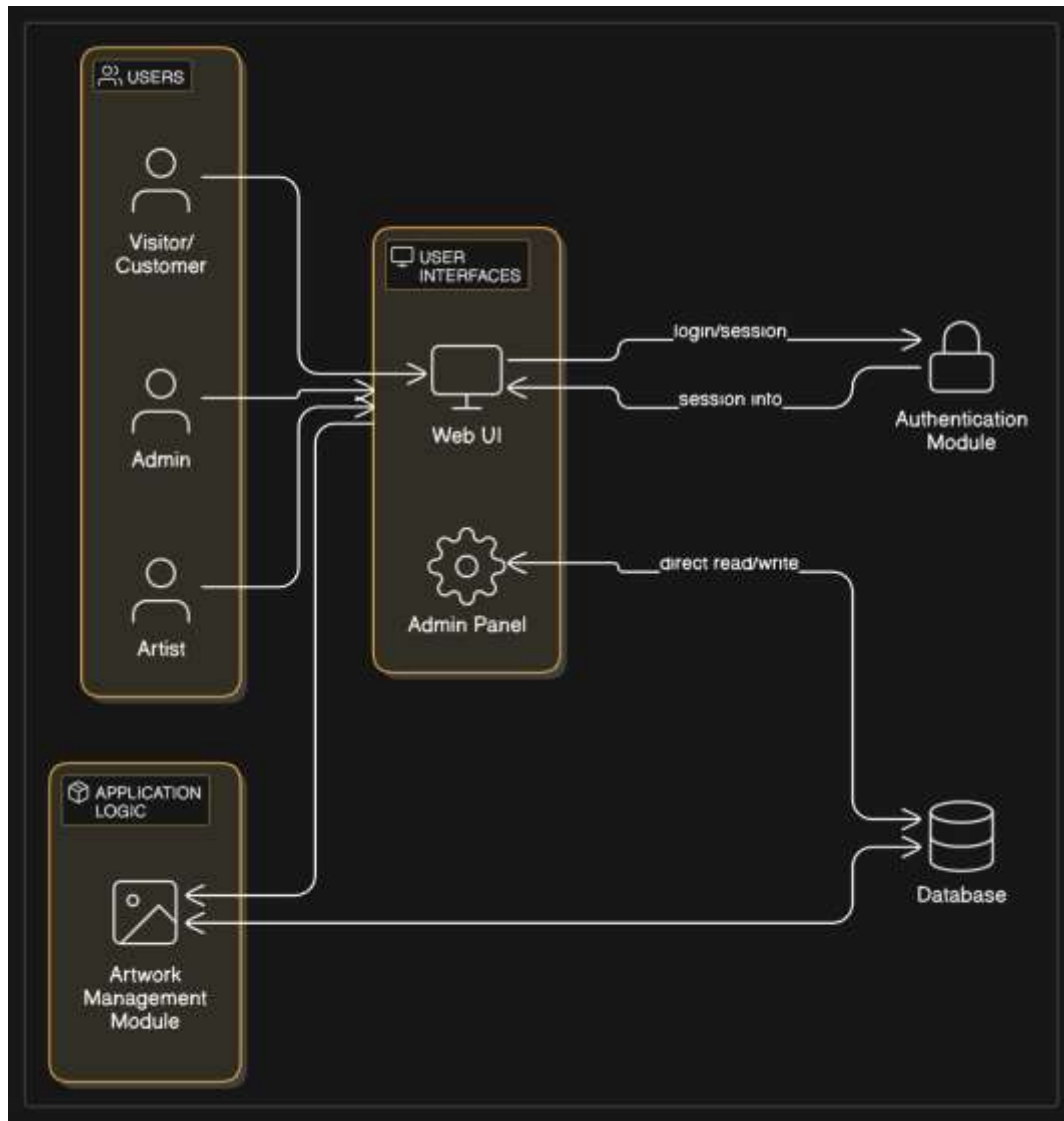
Browsing artwork



Class Diagrams



Component Model

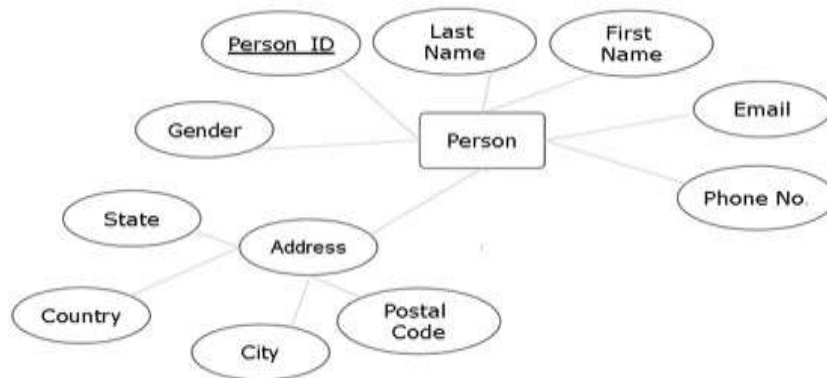


Deployment Model

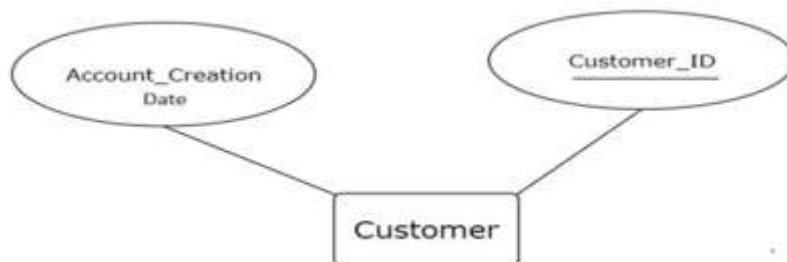
- Local deployment on SSMS and Visual Studio for development and testing.
- Somee.com for web hosting platform

Entities of the Schema:

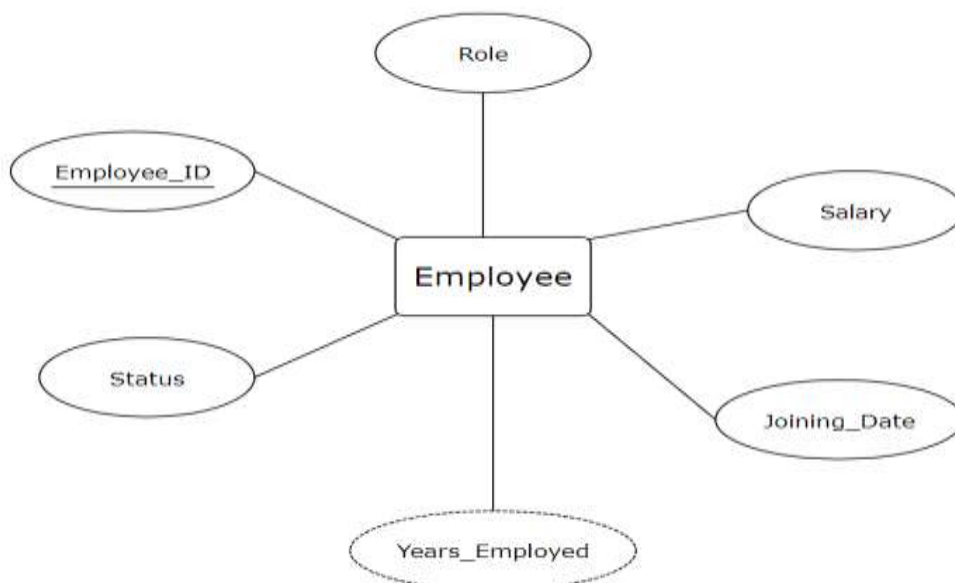
1. Person:



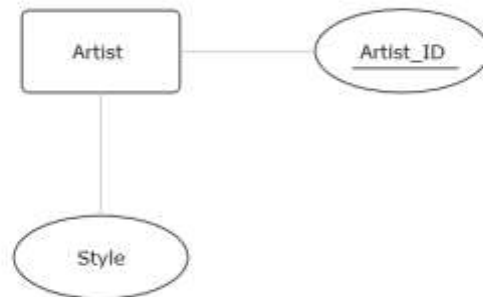
2. Customer:



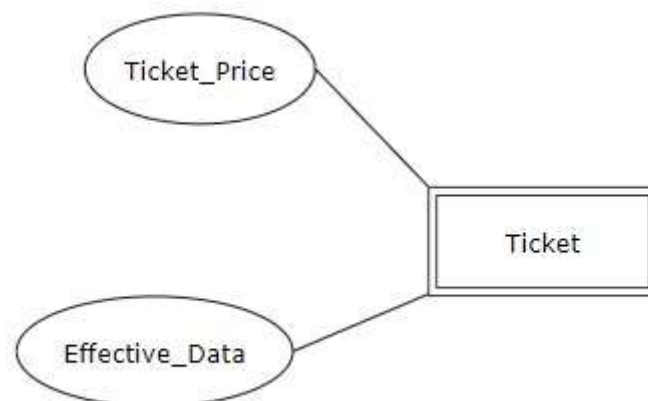
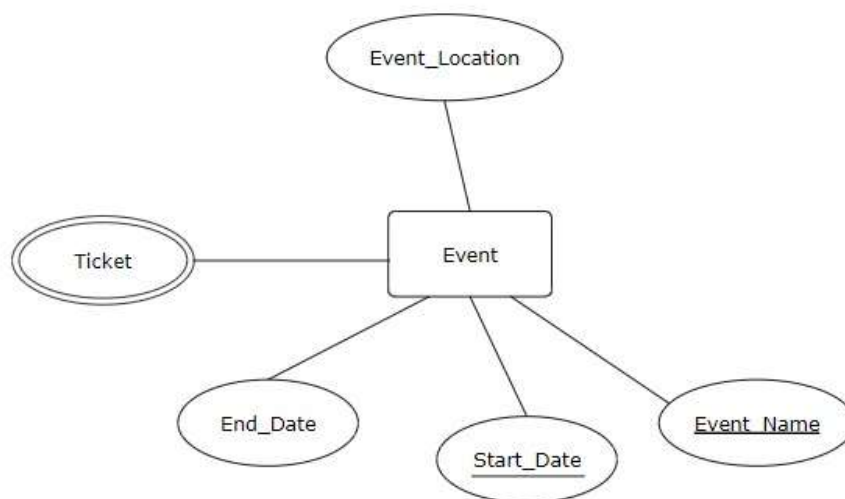
3. Employee:



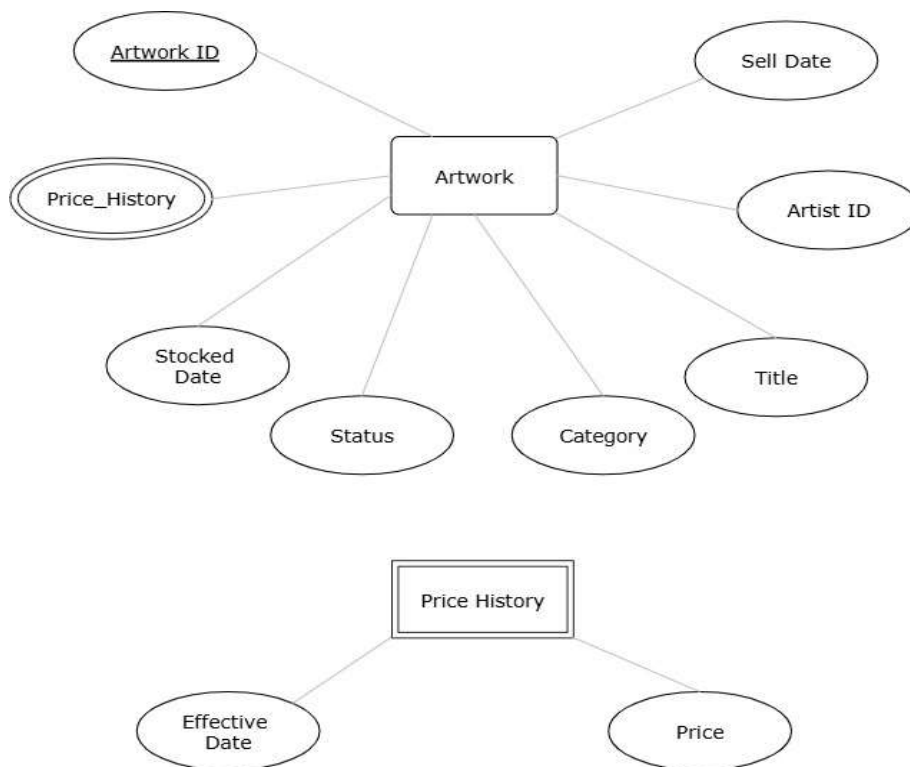
4. Artist:



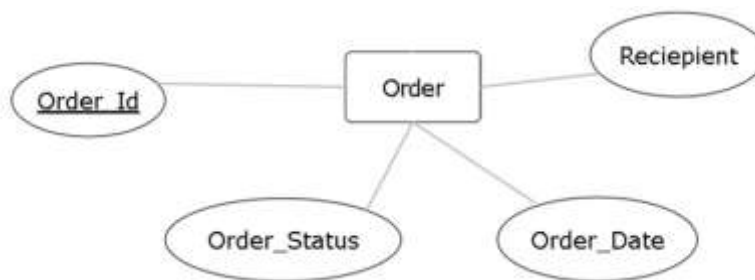
5. Event:



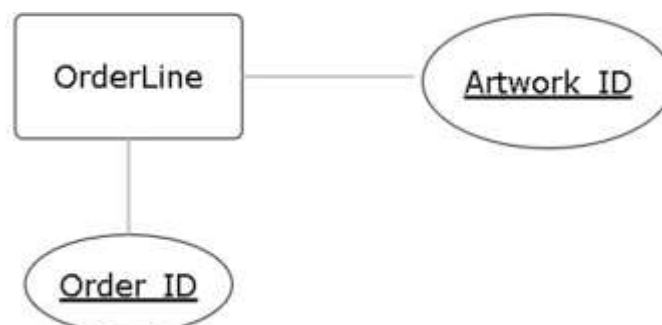
6. Artwork:



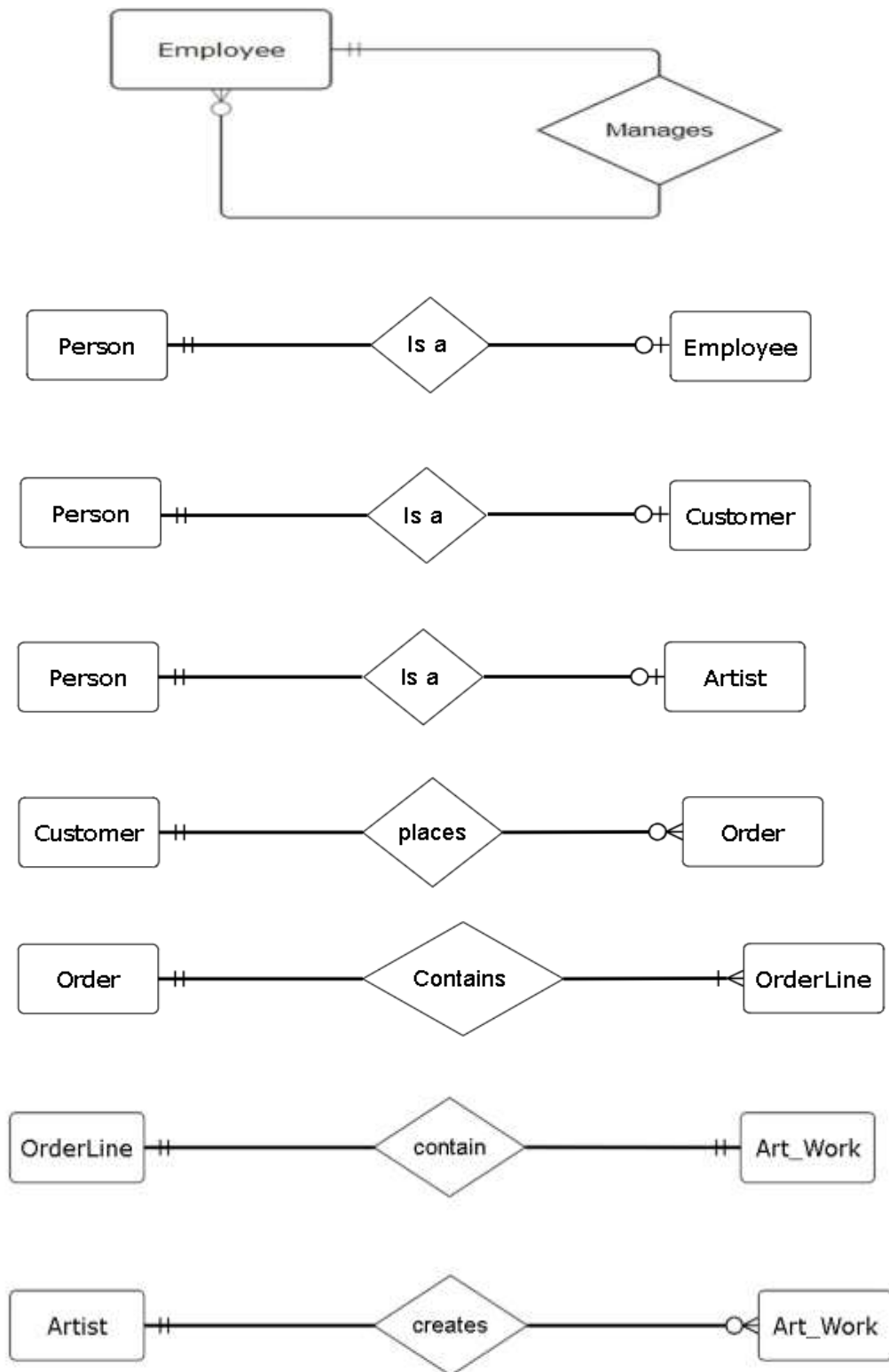
7. Order:

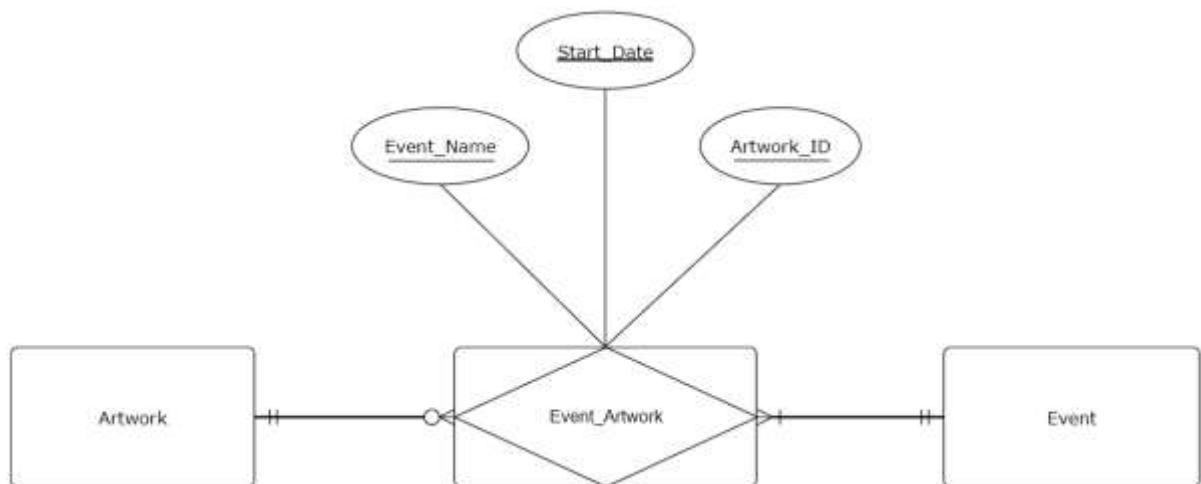
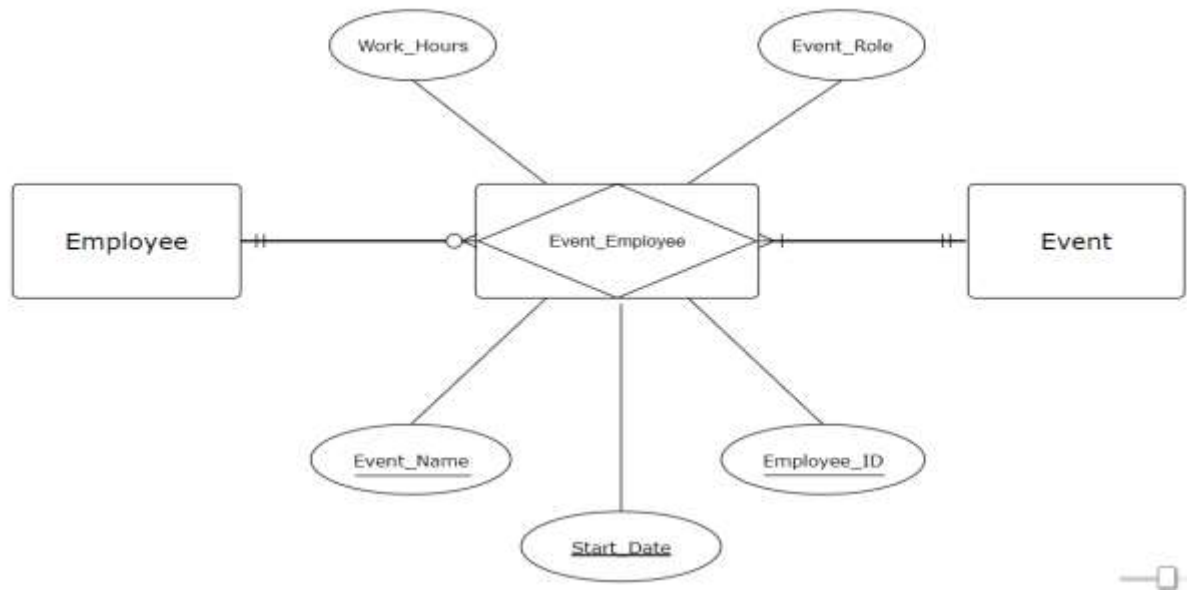


8. Order_line:

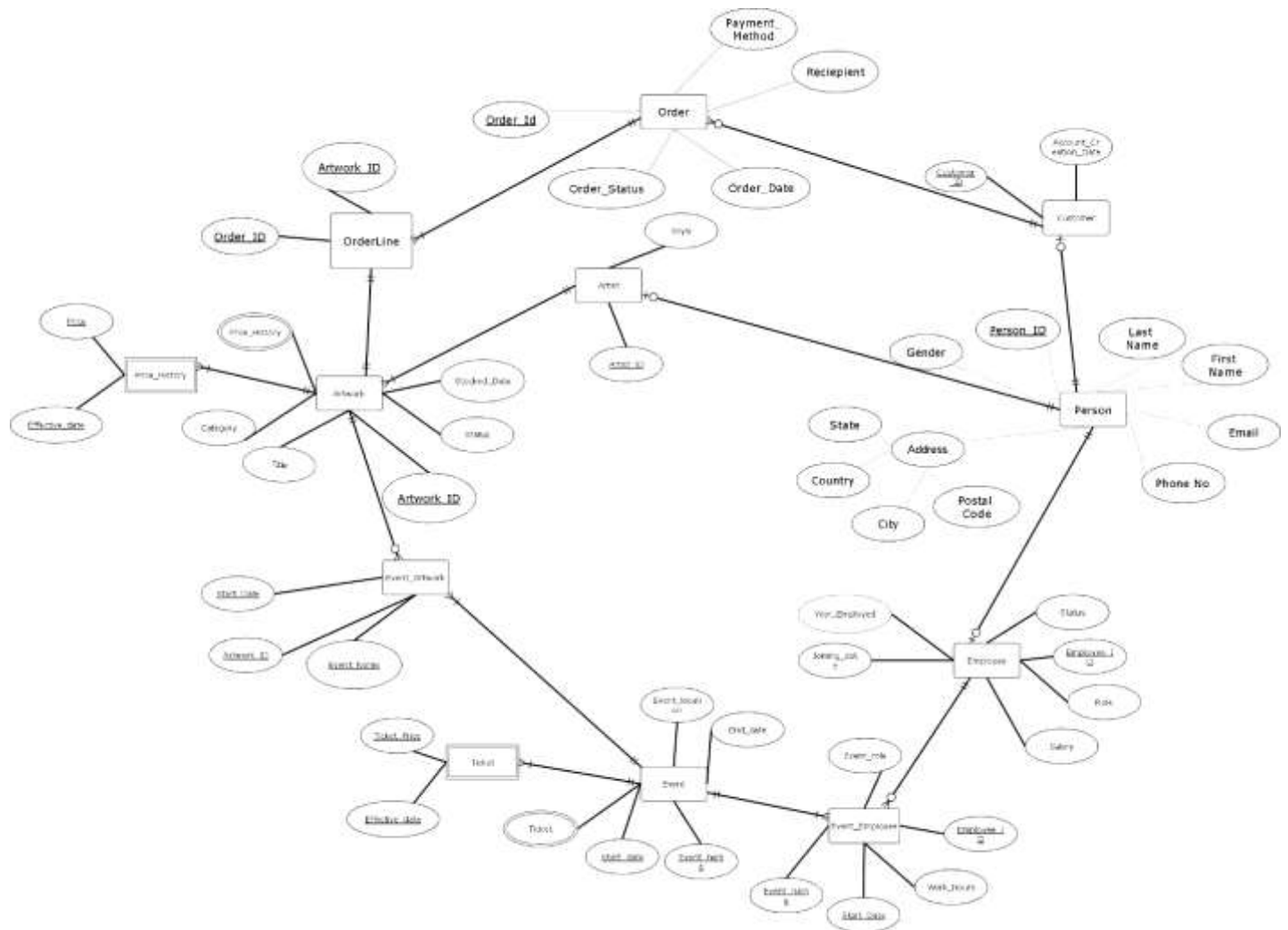


Relationships:

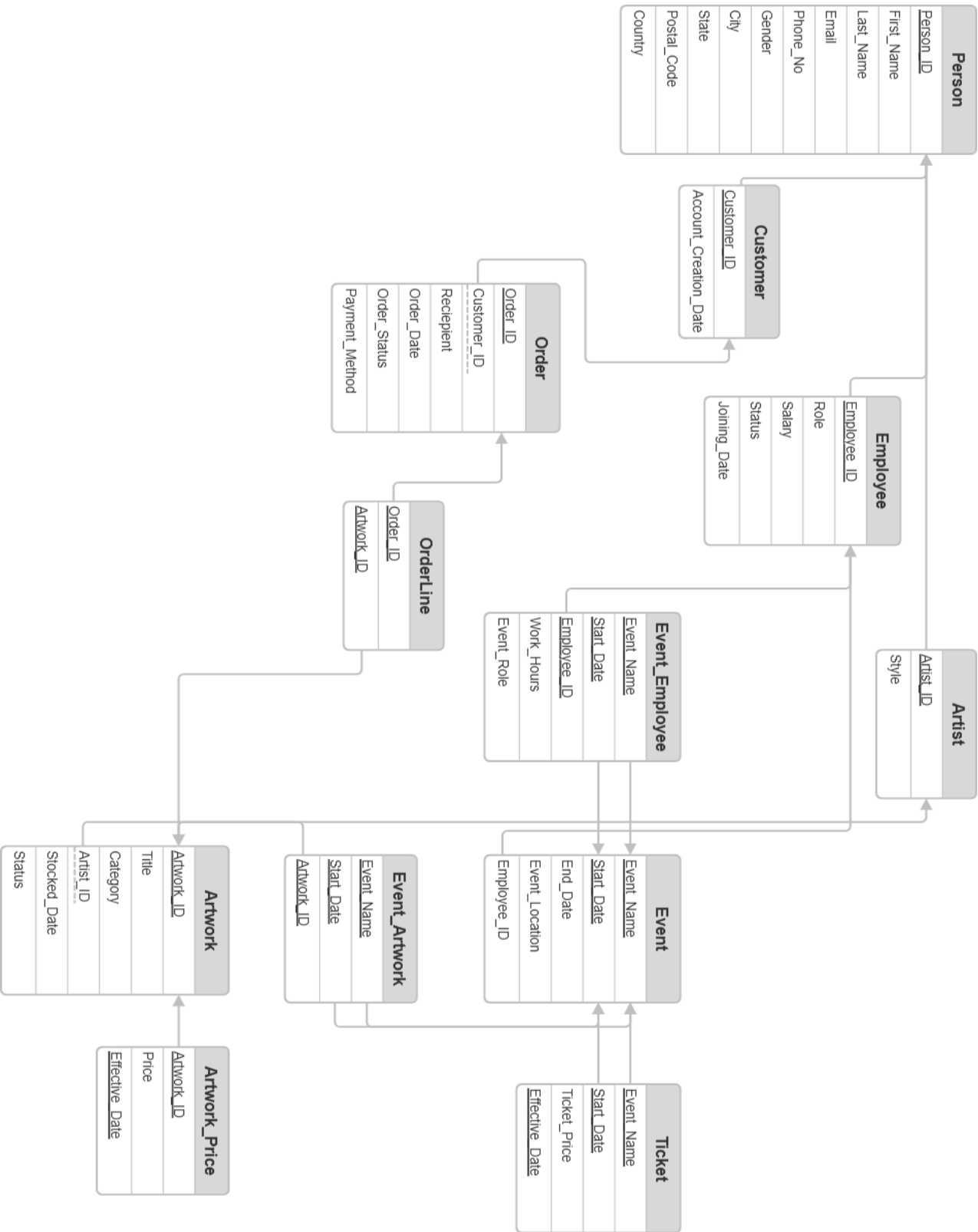




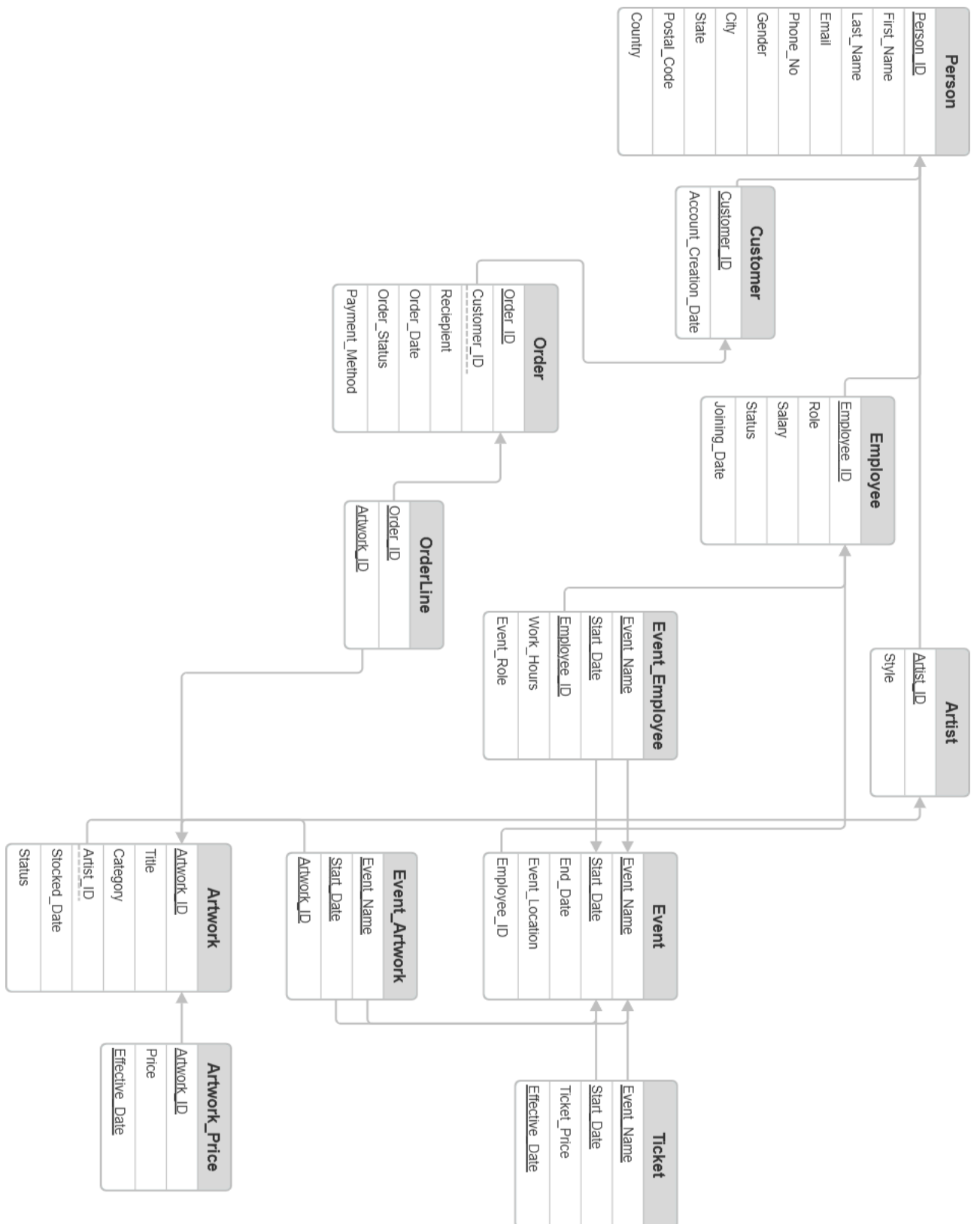
Complete ER Diagram:



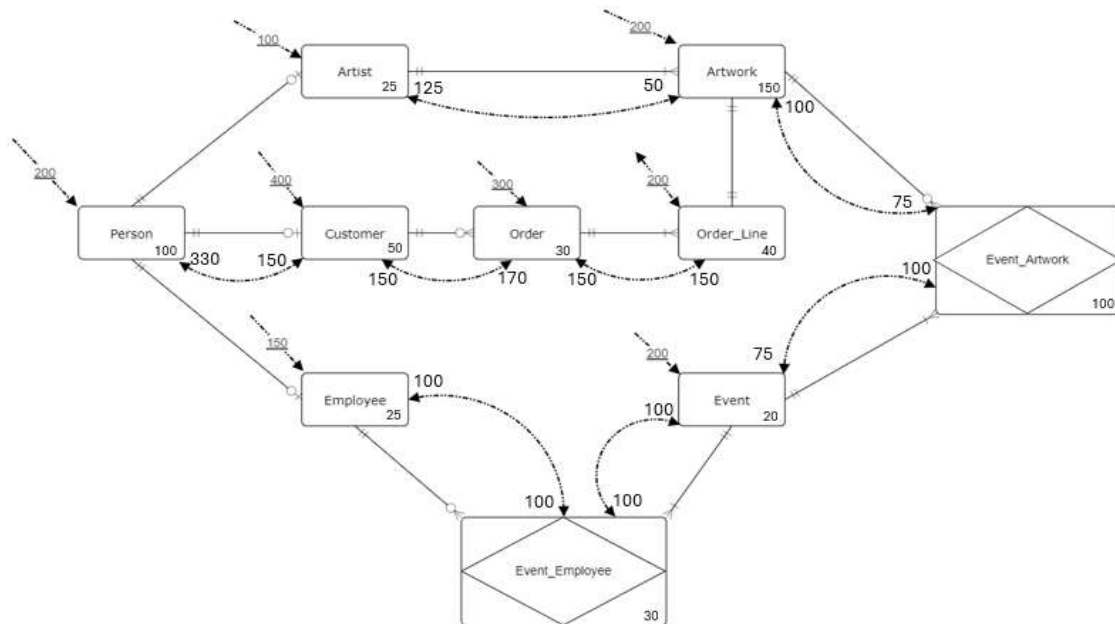
Relational Model:



Normalized Schema:



Access Frequency (Per Hour):



SQL Code:

```
CREATE TABLE PERSON (
    PERSON_ID VARCHAR(15) NOT NULL ,
    FIRST_NAME VARCHAR(20) NOT NULL ,
    LAST_NAME VARCHAR(20),
    EMAIL VARCHAR(40) NOT NULL ,
    PHONE_NO VARCHAR(20) NOT NULL ,
    GENDER CHAR(1) NOT NULL ,
    CITY VARCHAR(85) NOT NULL ,
    STATE VARCHAR(2) NOT NULL ,
    POSTAL_CODE VARCHAR(10) NOT NULL ,
    COUNTRY VARCHAR(50) NOT NULL ,
    ROLE VARCHAR(10) NOT NULL ,
    PASSWORD VARCHAR(20) NOT NULL ,
    CONSTRAINT PERSON_ID_FORMAT_CHECK CHECK (PERSON_ID LIKE '[0-9][0-9][0-9][0-9][0-9]-[0-9][0-9][0-9][0-9][0-9][0-9][0-9]-[0-9]') ,
    CONSTRAINT PERSON_PK PRIMARY KEY (PERSON_ID)
);
```

```
CREATE TABLE ARTIST (
    ARTIST_ID VARCHAR(15) NOT NULL ,
    STYLE VARCHAR(100) NOT NULL ,
    CONSTRAINT ARTIST_PK PRIMARY KEY (ARTIST_ID) ,
    CONSTRAINT FK_ARTIST_PERSON FOREIGN KEY (ARTIST_ID) REFERENCES
PERSON (PERSON_ID)
);
```

```
CREATE TABLE ARTWORK (
    ARTWORK_ID VARCHAR(15) NOT NULL ,
    TITLE VARCHAR(100) NOT NULL ,
    CATEGORY VARCHAR(50) NOT NULL ,
```



```

        ARTIST_ID VARCHAR(15) NOT NULL ,
        STOCKED_DATE DATE NOT NULL ,
        STATUS VARCHAR(20) NOT NULL ,
        IMAGE_PATH VARCHAR(100) NOT NULL ,
        CONSTRAINT ARTWORK_PK PRIMARY KEY (ARTWORK_ID) ,
        CONSTRAINT FK_ARTWORK_ARTIST FOREIGN KEY (ARTIST_ID) REFERENCES
ARTIST (ARTIST_ID)
);

CREATE TABLE ARTWORK_PRICE (
        ARTWORK_ID VARCHAR(15) NOT NULL ,
        PRICE DECIMAL(10,2) NOT NULL ,
        EFFECTIVE_DATE DATE NOT NULL ,
        CONSTRAINT ARTWORK_PRICE_PK PRIMARY KEY (ARTWORK_ID,
EFFECTIVE_DATE) ,
        CONSTRAINT FK_ARTWORK FOREIGN KEY (ARTWORK_ID) REFERENCES
ARTWORK (ARTWORK_ID)
);

CREATE TABLE CUSTOMER (
        CUSTOMER_ID VARCHAR(15) NOT NULL ,
        ACCOUNT_CREATION_DATE DATE,
        CONSTRAINT CUSTOMER_PK PRIMARY KEY (CUSTOMER_ID) ,
        CONSTRAINT FK_CUSTOMER_PERSON FOREIGN KEY (CUSTOMER_ID)
REFERENCES PERSON (PERSON_ID)
);

CREATE TABLE EMPLOYEE (
        EMPLOYEE_ID VARCHAR(15) NOT NULL ,
        ROLE VARCHAR(50) NOT NULL ,
        SALARY DECIMAL(8,2) NOT NULL ,
        STATUS VARCHAR(20) NOT NULL ,
        JOINING_DATE DATE NOT NULL ,
        CONSTRAINT EMPLOYEE_PK PRIMARY KEY (EMPLOYEE_ID) ,
        CONSTRAINT FK_EMPLOYEE_PERSON FOREIGN KEY (EMPLOYEE_ID)
REFERENCES PERSON (PERSON_ID)
);

CREATE TABLE EVENT (
        EVENT_NAME VARCHAR(50) NOT NULL ,
        START_DATE DATE NOT NULL ,
        END_DATE DATE NOT NULL ,
        EVENT_LOCATION VARCHAR(100) NOT NULL ,
        EMPLOYEE_ID VARCHAR(15) NOT NULL ,
        CONSTRAINT EVENT_PK PRIMARY KEY (EVENT_NAME, START_DATE) ,
        --FK_EVENT_ARTIST i think its unnessary but don't change it
until there is no error
        CONSTRAINT FK_EVENT_ARTIST FOREIGN KEY (EMPLOYEE_ID) REFERENCES
EMPLOYEE (EMPLOYEE_ID)
);

CREATE TABLE EVENT_ARTWORK (
        EVENT_NAME VARCHAR(50) NOT NULL ,
        START_DATE DATE NOT NULL ,
        ARTWORK_ID VARCHAR(15) NOT NULL ,

```

```

        CONSTRAINT EVENT_ARTWORK_PK PRIMARY KEY (EVENT_NAME, ARTWORK_ID,
START_DATE) ,
        CONSTRAINT FK_EVENT_ARTWORK1 FOREIGN KEY (EVENT_NAME,
START_DATE) REFERENCES EVENT (EVENT_NAME, START_DATE) ,
        CONSTRAINT FK_EVENT_ARTWORK2 FOREIGN KEY (ARTWORK_ID) REFERENCES
ARTWORK (ARTWORK_ID)
);

```

```

CREATE TABLE EVENT_EMPLOYEE (
    EVENT_NAME VARCHAR(50) NOT NULL ,
    START_DATE DATE NOT NULL ,
    EMPLOYEE_ID VARCHAR(15) NOT NULL ,
    WORK_HOURS DECIMAL(2,0) NOT NULL ,
    EVENT_ROLE VARCHAR(50) NOT NULL ,
    CONSTRAINT EVENT_EMPLOYEE_PK PRIMARY KEY (EVENT_NAME,
EMPLOYEE_ID, START_DATE) ,
    CONSTRAINT FK_TICKET_EVENT1 FOREIGN KEY (EVENT_NAME, START_DATE)
REFERENCES EVENT (EVENT_NAME, START_DATE) ,
    CONSTRAINT FK_TICKET_EVENT2 FOREIGN KEY (EMPLOYEE_ID) REFERENCES
EMPLOYEE (EMPLOYEE_ID)
);

```

```

CREATE TABLE ORDER_T (
    ORDER_ID VARCHAR(15) NOT NULL ,
    CUSTOMER_ID VARCHAR(15) NOT NULL ,
    RECIPIENT VARCHAR(50) NOT NULL ,
    ORDER_DATE DATE NOT NULL ,
    ORDER_STATUS VARCHAR(20) NOT NULL ,
    PAYMENT_METHOD VARCHAR(20) NOT NULL ,
    CONSTRAINT ORDER_PK PRIMARY KEY (ORDER_ID) ,
    CONSTRAINT FK_ORDER_CUSTOMER FOREIGN KEY (CUSTOMER_ID)
REFERENCES CUSTOMER (CUSTOMER_ID)
);

```

```

CREATE TABLE ORDERLINE (
    ORDER_ID VARCHAR(15) NOT NULL ,
    ARTWORK_ID VARCHAR(15) NOT NULL ,
    CONSTRAINT ORDERLINE_PK PRIMARY KEY (ORDER_ID, ARTWORK_ID) ,
    CONSTRAINT FK_ORDERLINE_ARTWORK FOREIGN KEY (ARTWORK_ID)
REFERENCES ARTWORK (ARTWORK_ID) ,
    CONSTRAINT FK_ORDERLINE_ORDER FOREIGN KEY (ORDER_ID) REFERENCES
ORDER_T (ORDER_ID)
);

```

```

CREATE TABLE TICKET (
    EVENT_NAME VARCHAR(50) NOT NULL ,
    START_DATE DATE NOT NULL ,
    TICKET_PRICE DECIMAL(5,0) NOT NULL ,
    EFFECTIVE_DATE DATE NOT NULL ,
    CONSTRAINT TICKET_PK PRIMARY KEY (EVENT_NAME, START_DATE,
TICKET_PRICE) ,
    CONSTRAINT FK_TICKET_EVENT FOREIGN KEY (EVENT_NAME, START_DATE)
REFERENCES EVENT (EVENT_NAME, START_DATE)
);

```

Internet Application Codes

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</title>
    <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>
    <header class="site-header">ArtVault</header>

    <form id="form1" runat="server">
        <h2>Login</h2>

        <div class="login-container">
            <div runat="server">
                <label for="person_id">CNIC:</label>
                <input id="person_id" type="text" title="CNIC Input"
placeholder="12345-1234567-1" class="form-control" runat="server"
required="required" pattern="\d{5}-\d{7}-\d{1}" />
            </div>

            <div runat="server">
                <label for="password">Password:</label>
                <input id="password" type="password" class="form-control"
runat="server" required="required" />
            </div>
            <div id="message_box" runat="server"></div>
            <div class="submit-container" runat="server">
                <input id="login_btn" type="submit" value="Login" runat="server" />
            </div>

            <div class="sign-up">
                <p>Don't have an account? <a href="Registration.aspx">Sign Up</a></p>
            </div>
        </form>
</body>
</html>
```

Login.aspx.vb

```
Imports System.Data
Imports System.Data.SqlClient
Imports System.Security.Policy
Imports System.ServiceModel.Channels

Partial Class Login
    Inherits System.Web.UI.Page

    Dim Session_Cnic As String
    Dim Session_Password As String
    Dim Session_Role As String
```

```

Dim Authenticated As Boolean = False
Dim First_Name As String
Dim Last_Name As String

Dim is_error As Boolean = False
Private Sub Login(sender As Object, e As EventArgs) Handles
login_btn.ServerClick
    Dim constr As String
    constr = "Data Source=PROBOOK\SQLEXPRESS;Initial
Catalog=ArtVault;Integrated Security=True;Encrypt=False;"
    Dim con As New SqlConnection
    con.ConnectionString = constr
    Dim cmd As New SqlCommand
    cmd.Connection = con
    cmd.CommandText = "SELECT PERSON_ID, ROLE, PASSWORD, FIRST_NAME,
LAST_NAME FROM PERSON WHERE PERSON_ID = '"
    cmd.CommandText += person_id.Value + "' AND PASSWORD = '" +
password.Value + "'"
    Dim dr As SqlDataReader
    Try
        con.Open()
        dr = cmd.ExecuteReader
        If dr.Read() Then
            message_box.Style.Add("opacity", "1")
            message_box.InnerText = "Login Successful"
            Authenticated = True
            Session_Cnic = dr("PERSON_ID")
            Session_Password = dr("PASSWORD")
            Session_Role = dr("ROLE")
            First_Name = dr("FIRST_NAME")
            Last_Name = dr("LAST_NAME")
            Session("Cnic") = Session_Cnic
            Session("Password") = Session_Password
            Session("Role") = Session_Role
            Session("Authenticated") = Authenticated
            Session("First_Name") = First_Name
            Session("Last_Name") = Last_Name
        Else
            message_box.Style.Add("opacity", "1")
            message_box.InnerText = "Wrong Credentials"
            is_error = True
        End If
    Catch ex As Exception
        message_box.Style.Add("opacity", "1")
        message_box.InnerText = ex.Message
        is_error = True
    Finally
        con.Close()
        cmd.Dispose()

        If is_error = False And Session_Role = "Customer" Then
            Response.Redirect("Customer.aspx")
        ElseIf is_error = False And Session_Role = "Artist" Then
            Response.Redirect("Artist.aspx")
        ElseIf is_error = False And Session_Role = "Admin" Then
            Response.Redirect("Admin.aspx")
        End If
    End Try

End Sub
End Class

```

Register.aspx

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Register</title>
    <link rel="icon" type="image/png" href="logo.png" />
    <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>
    

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

        <div id="message_box" runat="server"></div>

        <h2>Register</h2>

        <div class="grid-container">
            <div runat="server">
                <label for="person_id">CNIC:</label>
                <input id="person_id" type="text" placeholder="e.g., 12345-
1234567-1" class="form-control" runat="server" required="required" />
            </div>

            <div runat="server">
                <label for="first_name">First Name:</label>
                <input id="first_name" type="text" class="form-control"
runat="server" required="required" />
            </div>

            <div runat="server">
                <label for="last_name">Last Name:</label>
                <input id="last_name" type="text" class="form-control"
runat="server" />
            </div>

            <div runat="server">
                <label for="email">Email:</label>
                <input id="email" type="email" class="form-control" runat="server"
required="required" />
            </div>

            <div runat="server">
                <label for="phone">Phone No:</label>
                <input id="phone" type="text" class="form-control" runat="server"
required="required" />
            </div>

            <div runat="server">
                <label for="gender">Gender:</label>
                <select id="gender" class="form-control" runat="server"
required="required">
                    <option value="M">M</option>
                    <option value="F">F</option>
                    <option value="O">O</option>
                </select>
            </div>
        </div>
    </form>
</body>
</html>
```

```

        <div runat="server">
            <label for="city">City:</label>
            <input id="city" type="text" class="form-control" runat="server"
required="required" />
        </div>

        <div runat="server">
            <label for="state">State:</label>
            <input id="state" type="text" placeholder="e.g., CA" class="form-
control" runat="server" required="required" />
        </div>

        <div runat="server">
            <label for="postal_code">Postal Code:</label>
            <input id="postal_code" type="text" class="form-control"
runat="server" required="required" />
        </div>

        <div runat="server">
            <label for="country">Country:</label>
            <input id="country" type="text" class="form-control"
runat="server" required="required" />
        </div>

        <div runat="server">
            <label for="role">Role:</label>
            <select id="role" class="form-control" runat="server"
required="required">
                <option value="" selected="selected"
disabled="disabled">User</option>
                <option value="Artist">Artist</option>
                <option value="Customer">Vistor</option>
            </select>
        </div>

        <div runat="server">
            <label for="password">Password:</label>
            <input id="password" type="password" class="form-control"
runat="server" required="required" />
        </div>

        <div class="submit-container" runat="server">
            <input id="add" type="submit" value="Submit" runat="server" />
        </div>
    </form>
</body>
</html>

```

Register.aspx.vb

```

Imports System.Data.SqlClient
Imports System.Security.Policy
Imports System.ServiceModel.Channels

Partial Class Registration
    Inherits System.Web.UI.Page
    Dim is_error As Boolean = False
    Private Sub Register(sender As Object, e As EventArgs) Handles
add.ServerClick
        Dim constr As String

```

```

        constr = "Data Source=AALLEYY-PROBOOK\SQLEXPRESS;Initial
Catalog=ArtVault;Integrated Security=True;Encrypt=False;"
        Dim con As New SqlConnection
        con.ConnectionString = constr
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "INSERT INTO PERSON (PERSON_ID, FIRST_NAME, LAST_NAME,
EMAIL, PHONE_NO, GENDER, CITY, STATE, POSTAL_CODE, COUNTRY, ROLE, PASSWORD) "
        cmd.CommandText &= "VALUES ('" + person_id.Value + "', '"
        cmd.CommandText &= first_name.Value + "', '"
        cmd.CommandText &= last_name.Value + "', '"
        cmd.CommandText &= email.Value + "', '"
        cmd.CommandText &= phone.Value + "', '"
        cmd.CommandText &= gender.Value + "', '"
        cmd.CommandText &= city.Value + "', '"
        cmd.CommandText &= state.Value + "', '"
        cmd.CommandText &= postal_code.Value + "', '"
        cmd.CommandText &= country.Value + "', '"
        cmd.CommandText &= role.Value + "', '"
        cmd.CommandText &= password.Value + "')"
        Try
            con.Open()
            Dim insert As Integer = cmd.ExecuteNonQuery()
            If insert > 0 Then
                message_box.Style.Add("opacity", "1")
                message_box.InnerText = "Record Inserted Successfully"
            Else
                message_box.Style.Add("opacity", "1")
                message_box.InnerText = insert + " Record Inserted"
            End If
        Catch ex As Exception
            message_box.Style.Add("opacity", "1")
            message_box.InnerText = ex.Message
            is_error = True
        Finally
            If role.Value = "Customer" And is_error = False Then
                Dim account_creation_date As Date = Date.Now

                Dim formatted_date As String =
account_creation_date.ToString("yyyy-MM-dd")
                cmd.CommandText = "INSERT INTO CUSTOMER (CUSTOMER_ID,
ACCOUNT_CREATION_DATE) VALUES"
                cmd.CommandText &= "(" + person_id.Value + "', '"
                cmd.CommandText &= formatted_date + " ')"
                Dim insert_C As Integer = cmd.ExecuteNonQuery()
            End If
            con.Close()
            cmd.Dispose()
            If is_error = False Then
                Response.Redirect("Login.aspx")
            End If
        End Try
    End Sub
End Class

```

Customer/Visitor.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Customer</title>
    <link rel="icon" type="image/png" href="logo.png" />
    <link rel="stylesheet" type="text/css" href="style2.css" />
</head>
<body class="users">
<header>ArtVault</header>
    <form id="form1" runat="server">
        <div id="form2" runat="server">
            <div class="navbar">
                <ul class="navbar-list">
                    <li class="navbar-list-items"><a class="link"
href="Gallery.aspx">View Gallery</a></li>
                    <li class="navbar-list-items"><a class="link"
href="Events.aspx">Upcoming Events</a></li>
                    <li class="navbar-list-items"><a class="link"
href="Myinfo.aspx">My Information</a></li>
                </ul>
            </div>
        </div>
        <div class="greeting" id="greeting" runat="server">
            <h1 id="greeting_Name" runat="server"></h1>
        </div>
    </form>
</body>
</html>
```

Customer/Visitor.aspx.vb

```
Imports System.Drawing.Imaging

Partial Class Customer
    Inherits System.Web.UI.Page
    Private Sub Customer_Load(sender As Object, e As EventArgs) Handles Me.Load
        Dim Authenticated As Boolean = CType(Session("Authenticated"), Boolean)
        Dim Role As String = CType(Session("Role"), String)
        If Authenticated = False Then
            Response.Redirect("Login.aspx")
        End If
        If Role Is Nothing Then
            Response.Redirect("Login.aspx")
        End If
        If Role <> "Customer" Then
            Response.Redirect("Login.aspx")
        End If
        Dim First_Name As String = CType(Session("First_Name"), String)
        Dim Last_Name As String = CType(Session("Last_Name"), String)
        Dim greeting_string As String = "Hi " & First_Name & " " & Last_Name & "
! "
        greeting_Name.InnerText = greeting_string
    End Sub
End Class
```


Gallery.aspx

```
<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Gallery.aspx.vb"
Inherits="Gallery" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Art Gallery</title>
    <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>
    <header>ArtVault</header>
    <form id="form1" runat="server">
        <h2 id="gallery_heading" runat="server">Gallery </h2>
        <div class="gallery-container">
            <asp:Repeater ID="rptGallery" runat="server">
                <ItemTemplate>
                    <div class="art-card">
                        <img src='<%# "data:image/png;base64," &
Convert.ToBase64String(CType(Eval("IMAGE"), Byte())) %>' alt="Artwork"
class="art-image" />
                        <div class="art-info">
                            <h3><%# Eval("TITLE") %></h3>
                            <p><b>Category:</b> <%# Eval("CATEGORY") %></p>
                            <p><b>Status:</b> <%# Eval("STATUS") %></p>
                        </div>
                    </div>
                </ItemTemplate>
            </asp:Repeater>
        </div>
    </form>
</body>
</html>
```

Gallery.aspx.vb

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

Partial Class Gallery
    Inherits System.Web.UI.Page
    Protected Sub Page_Load(ByVal sender As Object, ByVal e As System.EventArgs)
        Handles Me.Load
            If Not IsPostBack Then
                LoadArtworkGallery()
            End If
        End Sub
        Private Sub LoadArtworkGallery()
            Dim constr As String = "Data Source=PROBOOK\SQLEXPRESS;Initial
Catalog=ArtVault;Integrated Security=True;Encrypt=False;"
            Dim dt As New DataTable()

            Using con As New SqlConnection(constr)
                Dim cmd As New SqlCommand("SELECT IMAGE, TITLE, CATEGORY, STATUS FROM
ARTWORK", con)
                Dim da As New SqlDataAdapter(cmd)
                da.Fill(dt)
            End Using
            rptGallery.DataSource = dt
            rptGallery.DataBind()
        End Sub
    End Class
```

Events.aspx

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

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Upcoming Events</title>
    <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>
    <header>ArtVault</header>
    <form id="form1" runat="server">
        <div class="container">
            <h2>Upcoming Events</h2>
            <div id="MessageBox" runat="server" class="message-box"></div>
            <asp:PlaceHolder ID="EventsContainer"
runat="server"></asp:PlaceHolder>
        </div>
    </form>
</body>
</html>
```

Events.aspx.vb

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

Partial Class UpcomingEvents
    Inherits System.Web.UI.Page

    Protected Sub Page_Load(sender As Object, e As EventArgs) Handles Me.Load
        Dim Authenticated As Boolean = CType(Session("Authenticated"), Boolean)
        Dim Role As String = CType(Session("Role"), String)
        If Not Authenticated Then
            Response.Redirect("Login.aspx")
        End If
        If Role Is Nothing Then
            Response.Redirect("Login.aspx")
        End If
        If Role <> "Customer" AndAlso Role <> "Artist" AndAlso Role <> "Employee"
Then
            Response.Redirect("Login.aspx")
        End If

        Dim constr As String = "Data Source=PROBOOK\SQLEXPRESS;Initial
Catalog=ArtVault;Integrated Security=True;Encrypt=False;"
        Dim con As New SqlConnection(constr)
        Dim cmd As New SqlCommand()
        cmd.Connection = con
        cmd.CommandText = "SELECT E.EVENT_NAME, E.START_DATE, E.END_DATE,
E.EVENT_LOCATION, (P.FIRST_NAME + ' ' + P.LAST_NAME) AS EVENT_EMPLOYEE " &
"FROM EVENT E " &
"INNER JOIN EMPLOYEE EM ON EM.EMPLOYEE_ID =
E.EMPLOYEE_ID " &
"INNER JOIN PERSON P ON P.PERSON_ID = EM.EMPLOYEE_ID "
&
"WHERE E.START_DATE >= @Today " &
"ORDER BY E.START_DATE ASC"
        cmd.Parameters.AddWithValue("@Today", DateTime.Today)

        Dim dr As SqlDataReader
```

```

Try
    con.Open()
    dr = cmd.ExecuteReader()
    If dr.HasRows Then
        Dim eventGrid As New GridView()
        eventGrid.DataSource = dr
        eventGrid.DataBind()
        eventGrid.Style("padding") = "10px"
        eventGrid.Style("border") = "1px solid #ccc"
        eventGrid.Style("margin") = "0 auto"
        eventGrid.CellPadding = 8
        eventGrid.HeaderStyle.BackColor = Color.LightGray
        eventGrid.HeaderStyle.Font.Bold = True
        EventsContainer.Controls.Add(eventGrid)
    Else
        MessageBox.InnerText = "No upcoming events found."
        MessageBox.Style("opacity") = "1"
    End If
Finally
    con.Close()
    cmd.Dispose()
End Try
End Sub
End Class

```

MyInfo.aspx.vb

```

<%@ Page Language="VB" AutoEventWireup="false" CodeFile="Myinfo.aspx.vb"
Inherits="Myinfo" %>
<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>My Information</title>
    <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>
    <form id="form1" runat="server">
        <h2>My Information</h2>
        <div id="grid_container" class="grid-container" runat="server">
            <div runat="server">
                <label for="person_id">CNIC:</label>
                <input id="person_id" type="text" placeholder="e.g., 12345-
1234567-1" class="form-control" runat="server" required="required" />
            </div>
            <div runat="server">
                <label for="first_name">First Name:</label>
                <input id="first_name" type="text" class="form-control"
runat="server" required="required" />
            </div>
            <div runat="server">
                <label for="last_name">Last Name:</label>
                <input id="last_name" type="text" class="form-control"
runat="server" />
            </div>
            <div runat="server">
                <label for="email">Email:</label>
                <input id="email" type="email" class="form-control"
runat="server" required="required" />
            </div>
            <div runat="server">
                <label for="phone">Phone No:</label>
                <input id="phone" type="text" class="form-control" runat="server"
required="required" />
            </div>
        </div>
    </form>
</body>
</html>

```

```

        </div>
        <div runat="server">
            <label for="gender">Gender:</label>
            <asp:DropDownList ID="gender" runat="server" class="form-control"
required="required">
                <asp:ListItem Value="M">M</asp:ListItem>
                <asp:ListItem Value="F">F</asp:ListItem>
                <asp:ListItem Value="0">0</asp:ListItem>
            </asp:DropDownList>
        </div>
        <div runat="server">
            <label for="city">City:</label>
            <input id="city" type="text" class="form-control" runat="server"
required="required" />
        </div>

        <div runat="server">
            <label for="state">State:</label>
            <input id="state" type="text" placeholder="e.g., CA" class="form-
control" runat="server" required="required" />
        </div>
        <div runat="server">
            <label for="postal_code">Postal Code:</label>
            <input id="postal_code" type="text" class="form-control"
runat="server" required="required" />
        </div>
        <div runat="server">
            <label for="country">Country:</label>
            <input id="country" type="text" class="form-control"
runat="server" required="required" />
        </div>
        <div runat="server">
            <label for="role">Role_name:</label>
            <asp:DropDownList id="Role_name" runat="server" class="form-
control" required="required">
                <asp:ListItem Value="User" Selected="True"
Disabled="True">User</asp:ListItem>
                <asp:ListItem Value="Artist">Artist</asp:ListItem>
                <asp:ListItem Value="Customer">Customer</asp:ListItem>
            </asp:DropDownList>
        </div>

        <div runat="server">
            <label for="password">Password:</label>
            <input id="password" type="text" class="form-control"
runat="server" required="required" />
        </div>
    </div>
    <div id="message_box" runat="server"></div>
    <div id="button_holder" class="submit-container" runat="server">
        <input id="edit" type="submit" value="Edit" runat="server" />
        <input id="update_btn" type="submit" value="Update" runat="server" />
    </div>
</form>
</body>
</html>

```

MyInfo.aspx.vb

```

Imports System.ComponentModel
Imports System.Data.SqlClient
Imports System.Web.UI.WebControls.Expressions

```

```

Partial Class Myinfo
    Inherits System.Web.UI.Page
    Private Sub Myinfo_Load(sender As Object, e As EventArgs) Handles Me.Load
        Dim Authenticated As Boolean = CType(Session("Authenticated"), Boolean)
        Dim Session_Cnic As String = CType(Session("Cnic"), String)
        Dim Role As String = CType(Session("Role"), String)

        Dim Session_Password As String = CType(Session("Password"), String)

        If Authenticated = False Then
            Response.Redirect("Login.aspx")
        End If
        If Role Is Nothing Then
            Response.Redirect("Login.aspx")
        End If

        If Me.IsPostBack = False Then

            Dim constr As String
            constr = "Data Source=PROBOOK\SQLEXPRESS;Initial
Catalog=ArtVault;Integrated Security=True;Encrypt=False;"
            Dim con As New SqlConnection
            con.ConnectionString = constr
            Dim cmd As New SqlCommand
            cmd.Connection = con
            cmd.CommandText = "SELECT PERSON_ID, FIRST_NAME, LAST_NAME, EMAIL,
PHONE_NO, GENDER, CITY, STATE, POSTAL_CODE, COUNTRY, ROLE, PASSWORD FROM PERSON
WHERE PERSON_ID = '"
            cmd.CommandText += Session_Cnic + "' AND PASSWORD = '" +
Session_Password + "'"
            Dim dr As SqlDataReader
            Try
                con.Open()
                dr = cmd.ExecuteReader
                If dr.Read() Then
                    person_id.Value = dr("PERSON_ID").ToString()
                    first_name.Value = dr("FIRST_NAME").ToString()
                    last_name.Value = dr("LAST_NAME").ToString()
                    email.Value = dr("EMAIL").ToString()
                    phone.Value = dr("PHONE_NO").ToString()
                    gender.SelectedValue = dr("GENDER").ToString()
                    city.Value = dr("CITY").ToString()
                    state.Value = dr("STATE").ToString()
                    postal_code.Value = dr("POSTAL_CODE").ToString()
                    country.Value = dr("COUNTRY").ToString()
                    Role_name.SelectedValue = dr("ROLE").ToString()
                    password.Value = dr("PASSWORD").ToString()
                    If dr("ROLE").ToString() = "Customer" Then
                        Dim con2 As New SqlConnection
                        con2.ConnectionString = constr
                        Dim cmd2 As New SqlCommand
                        cmd2.Connection = con2
                        cmd2.CommandText = "SELECT ACCOUNT_CREATION_DATE FROM
CUSTOMER WHERE CUSTOMER_ID = '" + Session_Cnic + "'"
                        Dim dr2 As SqlDataReader
                        Try
                            con2.Open()
                            dr2 = cmd2.ExecuteReader
                            If dr2.Read() Then
                                Dim Date_display As New HtmlGenericControl("div")

```

```

Date_display.Attributes.Add("class",
"Date_display")
    Dim Date_lable As New HtmlGenericControl("label")
    Date_lable.InnerText = "Account Creation Date: "
    Dim Date_feild As New HtmlGenericControl("input")
    Date_feild.Attributes.Add("type", "text")
    Date_feild.Attributes.Add("value",
dr2("ACCOUNT_CREATION_DATE").ToString())
    Date_feild.Attributes.Add("readonly", "true")
    Date_feild.Attributes.Add("class", "form-
control")
    Date_display.Controls.Add(Date_lable)
    Date_display.Controls.Add(Date_feild)
    grid_container.Controls.Add(Date_display)
End If
Catch ex As Exception
    message_box.Style.Add("opacity", "1")
    message_box.InnerText = ex.Message
Finally
    con2.Close()
    cmd.Dispose()
End Try

End If
End If

Catch ex As Exception
    message_box.Style.Add("opacity", "1")
    message_box.InnerText = ex.Message
Finally
    con.Close()
    cmd.Dispose()
End Try

person_id.Attributes.Add("readonly", "true")
first_name.Attributes.Add("readonly", "true")
last_name.Attributes.Add("readonly", "true")
email.Attributes.Add("readonly", "true")
phone.Attributes.Add("readonly", "true")
gender.Attributes.Add("disabled", "true")
city.Attributes.Add("readonly", "true")
state.Attributes.Add("readonly", "true")
postal_code.Attributes.Add("readonly", "true")
country.Attributes.Add("readonly", "true")
Role_name.Attributes.Add("disabled", "true")
password.Attributes.Add("readonly", "true")
End If
edit.Visible = True
update_btn.Visible = False
End Sub

Private Sub Edit_info(sender As Object, e As EventArgs) Handles
edit.ServerClick

    first_name.Attributes.Remove("readonly")
    last_name.Attributes.Remove("readonly")
    email.Attributes.Remove("readonly")
    phone.Attributes.Remove("readonly")
    city.Attributes.Remove("readonly")
    state.Attributes.Remove("readonly")
    postal_code.Attributes.Remove("readonly")
    country.Attributes.Remove("readonly")
    password.Attributes.Remove("readonly")

```

```

        edit.Visible = False
        update_btn.Visible = True

    End Sub

    Private Sub Update(Sender As Object, e As EventArgs) Handles
update_btn.ServerClick
        Dim Session_Cnic As String = CType(Session("Cnic"), String)
        Dim is_error As Boolean = False
        Dim constr As String
        constr = "Data Source=PROBOOK\SQLEXPRESS;Initial
Catalog=ArtVault;Integrated Security=True;Encrypt=False;"
        Dim con As New SqlConnection
        con.ConnectionString = constr
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "UPDATE PERSON SET FIRST_NAME='" & first_name.Value &
"', LAST_NAME='" & last_name.Value & "', "
        cmd.CommandText &= "EMAIL= '" & email.Value & "', PHONE_NO='" &
phone.Value & "', "
        cmd.CommandText &= "CITY='" & city.Value & "', STATE='" & state.Value &
"', "
        cmd.CommandText &= "POSTAL_CODE='" & postal_code.Value & "', COUNTRY='" &
country.Value & "', "
        cmd.CommandText &= "PASSWORD='" & password.Value & "' WHERE PERSON_ID =
'"
        cmd.CommandText &= Session_Cnic & "'"
        Try
            con.Open()
            Dim insert As Integer = cmd.ExecuteNonQuery()
            If insert > 0 Then
                message_box.Style.Add("opacity", "1")
                message_box.InnerText = "Record Updated Successfully"
            End If
        Catch ex As Exception
            message_box.Style.Add("opacity", "1")
            message_box.InnerText = ex.Message
            is_error = True
        Finally
            con.Close()
            cmd.Dispose()
        End Try
        If is_error = False Then
            Session("Password") = password.Value
            Response.Redirect("Myinfo.aspx")
        End If
    End Sub
End Sub
End Class

```

Artist.aspx

```

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Artist</title>
    <link rel="icon" type="image/png" href="logo.png" />
    <link rel="stylesheet" type="text/css" href="style2.css" />

```

```

</head>
<body class="users">
<header>ArtVault</header>
  <form id="form1" runat="server">
    <div id="form2" runat="server">
      <div class="navbar">
        <ul class="navbar-list">
          <li class="navbar-list-items"><a class="link"
href="Myinfo.aspx">My Information</a></li>
          <li class="navbar-list-items"><a class="link"
href="Upcomingevents.aspx">Upcoming Events</a></li>
          <li class="navbar-list-items"><a class="link"
href="MyArtworks.aspx">My Artworks</a></li>
          <li class="navbar-list-items"><a class="link"
href="addArtwork.aspx">Add Artwork</a></li>
        </ul>
      </div>
    </div>
    <div class="greeting" id="greeting" runat="server">
      <h1 id="greeting_Name" runat="server"></h1>
    </div>
  </form>
</body>
</html>

```

Artist.aspx.vb

```

Imports System.Drawing.Imaging

Partial Class Artist
  Inherits System.Web.UI.Page

  Private Sub Artist_Load(sender As Object, e As EventArgs) Handles Me.Load
    Dim Authenticated As Boolean = CType(Session("Authenticated"), Boolean)
    Dim Role As String = CType(Session("Role"), String)

    If Authenticated = False Then
      Response.Redirect("Login.aspx")
    End If
    If Role Is Nothing Then
      Response.Redirect("Login.aspx")
    End If
    If Role <> "Artist" Then
      Response.Redirect("Login.aspx")
    End If

    Dim First_Name As String = CType(Session("First_Name"), String)
    Dim Last_Name As String = CType(Session("Last_Name"), String)
    Dim greeting_string As String = "Hi " & First_Name & " " & Last_Name & "
!"
    greeting_Name.InnerText = greeting_string

  End Sub
End Class

```


AddArtwork.aspx

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>Add Artwork</title>
    <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>
    <header>ArtVault</header>
    <form id="form1" runat="server">

        <div id="message_box" runat="server"></div>
        <h2>Register New Artwork</h2>
        <div id="grid_container" class="grid-container" runat="server">
            <div runat="server">
                <label for="Artwork_id">Artwork ID:</label>
                <input id="Artwork_id" type="text" class="form-control"
placeholder="ART-001" runat="server" title="Artwork ID" pattern="ART-\d+"
required="required" />
                <asp:RequiredFieldValidator ID="rfvArtworkId" runat="server"
ControlToValidate="Artwork_id"
ErrorMessage="Artwork ID is required."
Display="Dynamic"
ForeColor="Red">
            </asp:RequiredFieldValidator>
            <asp:RegularExpressionValidator ID="revArtworkId" runat="server"
ControlToValidate="Artwork_id"
ErrorMessage="Artwork ID must be in format ART-xxx."
Display="Dynamic"
ForeColor="Red"
ValidationExpression="^ART-\d+$">
            </asp:RegularExpressionValidator>
        </div>

        <div runat="server">
            <label for="title">Title:</label>
            <input id="title" type="text" class="form-control" runat="server"
required="required" />
            <asp:RequiredFieldValidator ID="rfvTitle" runat="server"
ControlToValidate="title"
ErrorMessage="Title is required."
Display="Dynamic"
ForeColor="Red"></asp:RequiredFieldValidator>
        </div>

        <div runat="server">
            <label for="Category">Category:</label>
            <input id="Category" type="text" class="form-control"
runat="server" required="required" />
            <asp:RequiredFieldValidator ID="rfvCategory" runat="server"
ControlToValidate="Category"
ErrorMessage="Category is required."
Display="Dynamic"
ForeColor="Red"></asp:RequiredFieldValidator>
        </div>

        <div runat="server">
            <label for="Status">Status:</label>
```

```

        <input id="Status" type="text" class="form-control"
runat="server" required="required" />
        <asp:RequiredFieldValidator ID="rfvStatus" runat="server"
            ControlToValidate="Status"
            ErrorMessage="Status is required."
            Display="Dynamic"
            ForeColor="Red"></asp:RequiredFieldValidator>
    </div>

    <div runat="server">
        <label for="Stocked_Date">Stocked Date:</label>
        <input id="Stocked_Date" type="date" class="form-control"
runat="server" required="required" />
        <asp:RequiredFieldValidator ID="rfvStockedDate" runat="server"
            ControlToValidate="Stocked_Date"
            ErrorMessage="Stocked Date is required."
            Display="Dynamic"
            ForeColor="Red"></asp:RequiredFieldValidator>
    </div>

    <div>
        <asp:Label ID="lblImage" runat="server" Text="Artwork Image: "
Style="font-weight: bold" />
        <asp:FileUpload ID="fileUploadImage" runat="server" /><br />
        <br />
        <asp:RequiredFieldValidator ID="rfvImage" runat="server"
            ControlToValidate="fileUploadImage"
            ErrorMessage="Please upload an image."
            Display="Dynamic"
            ForeColor="Red"></asp:RequiredFieldValidator>
    </div>

    <div runat="server">
        <label for="price">Price:</label>
        <input id="price" type="text" class="form-control" runat="server"
required="required" />
        <asp:RequiredFieldValidator ID="rfvPrice" runat="server"
            ControlToValidate="price"
            ErrorMessage="Price is required."
            Display="Dynamic"
            ForeColor="Red"></asp:RequiredFieldValidator>
    </div>

    <div runat="server">
        <label for="effective_date">Effective Date:</label>
        <input id="effective_date" type="date" class="form-control"
runat="server" required="required" />
        <asp:RequiredFieldValidator ID="rfvEffectiveDate" runat="server"
            ControlToValidate="effective_date"
            ErrorMessage="Effective Date is required."
            Display="Dynamic"
            ForeColor="Red"></asp:RequiredFieldValidator>
    </div>
</div>
<div id="button_holder" class="submit-container" runat="server">
    <input id="Add_Artwork_btn" type="submit" value="Add Artwork"
runat="server" />
</div>
</form>
</body>
</html>

```

AddArtwork.aspx.vb

```
Imports System.Data.SqlClient
Imports System.IdentityModel.Protocols.WSTrust
Imports System.Security.Policy
Imports System.Data

Partial Class addArtwork
    Inherits System.Web.UI.Page
    Private Sub Register(sender As Object, e As EventArgs) Handles
Add_Artwork_btn.ServerClick
        Dim Authenticated As Boolean = CType(Session("Authenticated"), Boolean)
        Dim Session_Cnic As String = CType(Session("Cnic"), String)
        Dim Role As String = CType(Session("Role"), String)

        If Not Authenticated OrElse Role Is Nothing OrElse Role <> "Artist" Then
            Response.Redirect("Login.aspx")
        End If

        Try
            Dim imageData As Byte() = Nothing
            If fileUploadImage.HasFile Then
                imageData = fileUploadImage.FileBytes
            End If

            Dim constr As String = "Data Source=PROBOOK\SQLEXPRESS;Initial
Catalog=ArtVault;Integrated Security=True;Encrypt=False;"
            Dim con As New SqlConnection(constr)
            Dim cmd As New SqlCommand("INSERT INTO ARTWORK (ARTWORK_ID, TITLE,
CATEGORY, ARTIST_ID, STOCKED_DATE, STATUS, IMAGE) VALUES (@artworkId, @title,
@category, @artistId, @stockedDate, @status, @image)", con)
            cmd.Parameters.AddWithValue("@artworkId", Artwork_id.Value)
            cmd.Parameters.AddWithValue("@title", title.Value)
            cmd.Parameters.AddWithValue("@category", Category.Value)
            cmd.Parameters.AddWithValue("@artistId", Session_Cnic)
            cmd.Parameters.AddWithValue("@stockedDate",
DateTime.Parse(Stocked_Date.Value))
            cmd.Parameters.AddWithValue("@status", Status.Value)
            cmd.Parameters.AddWithValue("@image", If(imageData IsNot Nothing,
CType(imageData, Object), DBNull.Value))

            Dim insert As Integer = 0
            Try
                con.Open()
                insert = cmd.ExecuteNonQuery()
                If insert > 0 Then
                    message_box.Style.Add("opacity", "1")
                    message_box.InnerText = "Record Inserted Successfully"
                Else
                    message_box.Style.Add("opacity", "1")
                    message_box.InnerText = "No record inserted"
                End If
            Catch ex As Exception
                message_box.Style.Add("opacity", "1")
                message_box.InnerText = ex.Message
            Finally
                con.Close()
                cmd.Dispose()
            End Try

            If insert > 0 Then
```

```

        Dim cmd4 As New SqlCommand("INSERT INTO ARTWORK_PRICE
(ARTWORK_ID, PRICE, EFFECTIVE_DATE) VALUES (@artworkId, @price, @effectiveDate)",
New SqlConnection(constr))
        cmd4.Parameters.AddWithValue("@artworkId", Artwork_id.Value)
        cmd4.Parameters.AddWithValue("@price", price.Value)
        cmd4.Parameters.AddWithValue("@effectiveDate",
DateTime.Parse(effective_date.Value))
        Try
            cmd4.Connection.Open()
            Dim insert_C As Integer = cmd4.ExecuteNonQuery()
            If insert_C > 0 Then
                message_box.Style.Add("opacity", "1")
                message_box.InnerText = "Artwork and price registered
successfully!"
            Else
                message_box.Style.Add("opacity", "1")
                message_box.InnerText = "Artwork inserted, but price not
registered."
            End If
        Catch ex As Exception
            message_box.Style.Add("opacity", "1")
            message_box.InnerText = "Artwork inserted, but price error: "
            & ex.Message
        Finally
            cmd4.Connection.Close()
            cmd4.Dispose()
        End Try
    End If
Catch ex As Exception
    message_box.InnerText = "Error: " & ex.Message
End Try
End Sub
End Class

```

MyArtwork.aspx

```

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

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title>My Artworks</title>
    <link rel="stylesheet" type="text/css" href="style.css" />
</head>
<body>
    <form id="form1" runat="server">
        <h2>My Artworks</h2>
        <div id="message_box" runat="server"></div>
        <asp:Placeholder ID="artworkscontainer" runat="server"></asp:Placeholder>
    </form>
</body>
</html>

```

MyArtwork.aspx.vb

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

```
Partial Class myArtwork
```

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

```
    Private Sub Myinfo_Load(sender As Object, e As EventArgs) Handles Me.Load
```

```
        Dim Authenticated As Boolean = CType(Session("Authenticated"), Boolean)
```

```
        Dim Session_Cnic As String = CType(Session("Cnic"), String)
```

```
        Dim Role As String = CType(Session("Role"), String)
```

```
        Dim Session_Password As String = CType(Session("Password"), String)
```

```
        If Authenticated = False Then
```

```
            Response.Redirect("Login.aspx")
```

```
        End If
```

```
        If Role Is Nothing Then
```

```
            Response.Redirect("Login.aspx")
```

```
        End If
```

```
        If Role <> "Artist" Then
```

```
            Response.Redirect("Login.aspx")
```

```
        End If
```

```
        Dim constr As String
```

```
        constr = "Data Source=PROBOOK\SQLEXPRESS;Initial  
Catalog=ArtVault;Integrated Security=True;Encrypt=False;"
```

```
        Dim con As New SqlConnection
```

```
        con.ConnectionString = constr
```

```
        Dim cmd As New SqlCommand
```

```
        cmd.Connection = con
```

```
        cmd.CommandText = "SELECT ARTWORK_ID, TITLE, CATEGORY, STOCKED_DATE,  
STATUS FROM ARTWORK WHERE ARTIST_ID = @session_id"
```

```
        cmd.Parameters.AddWithValue("@session_id", Session_Cnic)
```

```
        Dim dr As SqlDataReader
```

```
        Try
```

```
            con.Open()
```

```
            dr = cmd.ExecuteReader
```

```
            If dr.HasRows Then
```

```
                Dim event_grid As New GridView
```

```
                event_grid.DataSource = dr
```

```
                event_grid.DataBind()
```

```
                event_grid.Style("padding") = "10px"
```

```
                event_grid.Style("border") = "1px solid #ccc"
```

```
                event_grid.Style("margin") = "0 auto"
```

```
                event_grid.CellPadding = 8
```

```
                artworkscontainer.Controls.Add(event_grid)
```

```
            Else
```

```
                message_box.InnerText = "No events found."
```

```
                message_box.Style("opacity") = "1"
```

```
            End If
```

```
        Finally
```

```
            con.Close()
```

```
            cmd.Dispose()
```

```
        End Try
```

```
    End Sub
```

```
End Class
```