Pakistan Institute of Engineering and Applied Sciences

Report

Lab-04: Connecting and Fetching data from database

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Registration No: 03-3-1-033-2022

Course Name: Internet application development

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Task 1) Open website: https://visualstudio.microsoft.com/downloads/ and download Visual Studio 2022 Community edition (if not installed).

In case of limited resources available on your PC/laptop/notebook you may check https://visualstudio.microsoft.com/vs/older-downloads/ for previous versions.

Run the installer for Visual Studio.

Select ASP.NET and Web Development. Also select .NET Framework project and item templates, .NET Framework 4.6.2-4.7.1 development tools and Additional project templates (previous versions).

Task 2) Go to https://www.microsoft.com/en-us/sql-server/sql-server-downloads and download SQL Server Developer or SQL Server Express edition, follow its instructions for installation.

SQL Server 2022 Developer is a full-featured free edition, licensed for use as a development and test database in a non-production environment.

SQL Server 2022 Express is a free edition of SQL Server, ideal for development and production for desktop, web, and small server applications.

In case of limited resources check https://learn.microsoft.com/en-us/previous-versions/sql/.

Task 3) Go to website: https://aka.ms/ssmsfullsetup to download SQL Server Management Studio. Install SQL Server Management Studio SSMS by executing SSMS-Setup-ENU file.

Task 4) 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.

Create a website project using a blank folder as demonstrated in class.

Add a web form with separate code to the project.

Test the web form by running it in browser.

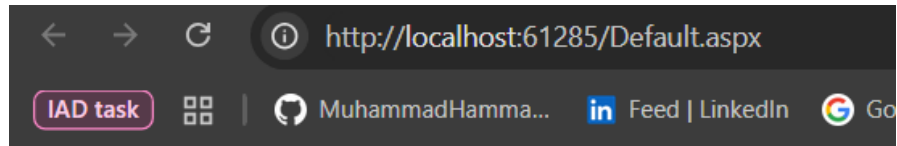**Write code to retrieve data from any of your project table. Display a few fields in browser.**

Task 5) Connect and query a SQL Server instance using Visual Studio.

Follow the instructions https://learn.microsoft.com/en-us/ssms/quickstarts/ssms-connect-query-sql-server

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

Default.aspx.vb:

```
Imports System.Data.SqlClient

Partial Class _Default
    Inherits System.Web.UI.Page

    Private Sub _Default_Load(sender As Object, e As EventArgs) Handles Me.Load
        Dim constr As String
        constr = "workstation id=PVFCARTVAULT.mssql.somee.com;packet size=4096;" +
                "user id=hammadtahir_SQLLogin_2;pwd=y5584lfpgy;" +
                "data source=PVFCARTVAULT.mssql.somee.com;" +
                "persist security info=False;" +
                "initial catalog=PVFCARTVAULT;" +
                "TrustServerCertificate=True;"          Dim con As New SqlConnection
        con.ConnectionString = constr
        Dim cmd As New SqlCommand
        cmd.Connection = con
        cmd.CommandText = "Select *"
        cmd.CommandText &= "From Customer_t"
        Dim dr As SqlDataReader
        Try
            con.Open()
            dr = cmd.ExecuteReader
            While dr.Read()
                Response.Write(dr("Customer_id") & "&nbsp&nbsp&nbsp&nbsp" &
dr("Customer_name") & "<br>")
            End While
```

```
        Catch ex As Exception
            Response.Write(ex.Message)
        Finally
            con.Close()
            cmd.Dispose()
        End Try
    End Sub
End Class
```

Output:


```
1    Contemporary Casuals
2    Value Furniture
3    Home Furnishings
4    Eastern Furniture
5    Impressions
6    Furniture Gallery
7    Period Furniture
8    Calfornia Classics
9    M and H Casual Furniture
10   Seminole Interiors
11   American Euro Lifestyles
12   Battle Creek Furniture
13   Heritage Furnishings
14   Kaneohe Homes
15   Mountain Scenes
```

Folder structure: