

LAB 04

PROBLEM 04

PROBLEM STATEMENT

Problem 4) Implement the search mechanism (functionality) for searching products (furniture products) through the above mentioned Page (ii) as listed in Problem 3. When the page visitor enters a search string in an input control e.g. text box and click a search button, all relevant products must be displayed to the page visitor.
Write the button click handler below. Make it available online.

CODES & OUTPUTS

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">
    <asp:Label ID="txtCompany" runat="server" Text="<h1>Pine Valley Furniture
Company</h1>"></asp:Label>
    <asp:TextBox ID="txtSearch" runat="server" placeholder="Search Products"
Width="300px"></asp:TextBox>
    <asp:Button ID="btnSearch" runat="server" Text="Search" OnClick="btnSearch_Click" /><br /><br />
    <asp:GridView ID="allProducts" runat="server" AutoGenerateColumns="true"></asp:GridView>
  </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
    If Not IsPostBack Then
      BindAllProducts()
    End If
  End Sub

  Protected Sub btnSearch_Click(sender As Object, e As EventArgs) Handles btnSearch.Click
    'Sample Products
    Dim products As New List(Of String) From {
      "Chair", "Office Chair", "Sofa", "Office Sofa", "Table", "Office Table", "Bed", "Maize"
    }
    'Get search keyword
```

```

Dim keyword As String = txtSearch.Text.ToLower()
'Filter products
Dim result = products.Where(Function(p) p.ToLower().Contains(keyword)).ToList()
'Bind to gridview
allProducts.DataSource = result
allProducts.DataBind()
End Sub
Private Sub BindAllProducts()
'All Products
Dim products As New List(Of String) From {
    "Chair", "Office Chair", "Sofa", "Office Sofa", "Table", "Office Table", "Bed", "Maize"
}
allProducts.DataSource = products
allProducts.DataBind()
End Sub
End Class

```

Pine Valley Furniture Company

Item
Chair
Office Chair
Sofa
Office Sofa
Table
Office Table
Bed
Maize

Pine Valley Furniture Company

Item
Table
Office Table

Pine Valley Furniture Company

Item
Office Chair
Office Sofa
Office Table

Pine Valley Furniture Company