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I. ListView

```
<asp:ListView ID="ListView1" runat="server" DataSourceID="ObjectDataSource1"
GroupItemCount="4"
    EnableModelValidation="True">
    <GroupTemplate>
        <tr id="itemPlaceholderContainer" runat="server">
            <td id="itemPlaceholder" runat="server">
            </td>
        </tr>
    </GroupTemplate>
    <ItemTemplate>
        <td valign="top" align="center">
        </td>
    </ItemTemplate>
    <LayoutTemplate>
        <table id="Table1" class="product" runat="server">
            <tr id="groupPlaceholderContainer" runat="server">
                <td id="groupPlaceholder" runat="server">
                </td>
            </tr>
        </table>
    </LayoutTemplate>
</asp:ListView>
```

```
<asp:ListView ID="ListView1" runat="server" DataSourceID="ObjectDataSource2"
EnableModelValidation="True">
    <ItemTemplate>
        <%--Code ở đây--%>
    </ItemTemplate>
    <EmptyDataTemplate>
        <span>Đang cập nhật.</span>
    </EmptyDataTemplate>
    <LayoutTemplate>
        <span runat="server" id="itemPlaceholder" />
    </LayoutTemplate>
</asp:ListView>
```

II. ObjectDataSource

```
<asp:ObjectDataSource ID="odsBanner" runat="server" SelectMethod="AdsBannerSelectAll"
TypeName="TLLib.AdsBanner">
  <SelectParameters>
    <asp:Parameter Name="StartRowIndex" Type="String" />
    <asp:Parameter Name="EndRowIndex" Type="String" />
    <asp:Parameter Name="AdsCategoryID" Type="String" />
    <asp:Parameter Name="CompanyName" Type="String" />
    <asp:Parameter Name="Website" Type="String" />
    <asp:Parameter Name="FromDate" Type="String" />
    <asp:Parameter Name="ToDate" Type="String" />
    <asp:Parameter DefaultValue="True" Name="IsAvailable" Type="String" />
    <asp:Parameter Name="Priority" Type="String" />
    <asp:Parameter DefaultValue="True" Name="SortByPriority" Type="String" />
  </SelectParameters>
</asp:ObjectDataSource>

<asp:ObjectDataSource ID="odsDoiTac" runat="server"
  SelectMethod="PartnerSelectAll" TypeName="TLLib.Partner">
  <SelectParameters>
    <asp:Parameter Name="Keyword" Type="String" />
    <asp:Parameter Name="PartnerName" Type="String" />
    <asp:Parameter Name="Address" Type="String" />
    <asp:Parameter Name="LinkWebsite" Type="String" />
    <asp:Parameter DefaultValue="True" Name="IsAvailable" Type="String" />
    <asp:Parameter Name="Priority" Type="String" />
    <asp:Parameter DefaultValue="True" Name="SortByPriority" Type="String" />
  </SelectParameters>
</asp:ObjectDataSource>

<asp:ObjectDataSource ID="odsGioiThieu" runat="server" SelectMethod="ProjectCategorySelectAll"
TypeName="TLLib.ProjectCategory">
  <SelectParameters>
    <asp:Parameter DefaultValue="1" Name="parentID" Type="Int32" />
    <asp:Parameter DefaultValue="1" Name="increaseLevelCount" Type="Int32" />
    <asp:Parameter Name="IsShowOnMenu" Type="String" />
    <asp:Parameter Name="IsShowOnHomePage" Type="String" />
  </SelectParameters>
</asp:ObjectDataSource>
```

```
<asp:ObjectDataSource ID="odsTinTucNew" runat="server" SelectMethod="ProjectSelectAll" TypeName="TLLib.Project">
    <SelectParameters>
        <asp:Parameter Name="StartRowIndex" Type="String" />
        <asp:Parameter Name="EndRowIndex" Type="String" />
        <asp:Parameter Name="Keyword" Type="String" />
        <asp:Parameter Name="ProjectTitle" Type="String" />
        <asp:Parameter Name="Description" Type="String" />
        <asp:QueryStringParameter QueryStringField="nci" DefaultValue="2" Name="ProjectCategoryID"
Type="String" />
        <asp:Parameter Name="Tag" Type="String" />
        <asp:Parameter Name="IsHot" Type="String" />
        <asp:Parameter DefaultValue="True" Name="IsNew" Type="String" />
        <asp:Parameter Name="IsShowOnHomePage" Type="String" />
        <asp:Parameter Name="FromDate" Type="String" />
        <asp:Parameter Name="ToDate" Type="String" />
        <asp:Parameter DefaultValue="True" Name="IsAvailable" Type="String" />
        <asp:Parameter Name="Priority" Type="String" />
        <asp:Parameter DefaultValue="True" Name="SortByPriority" Type="String" />
    </SelectParameters>
</asp:ObjectDataSource>
```

```
<asp:ObjectDataSource ID="odsSanPham" runat="server" SelectMethod="ProductSelectAll"
TypeName="TLLib.Product">

    <SelectParameters>
        <asp:Parameter Name="StartRowIndex" Type="String" />
        <asp:Parameter Name="EndRowIndex" Type="String" />
        <asp:Parameter Name="Keyword" Type="String" />
        <asp:Parameter Name="ProductName" Type="String" />
        <asp:Parameter Name="Description" Type="String" />
        <asp:Parameter Name="PriceFrom" Type="String" />
        <asp:Parameter Name="PriceTo" Type="String" />
        <asp:Parameter Name="CategoryID" Type="String" />
        <asp:Parameter Name="ManufacturerID" Type="String" />
        <asp:Parameter Name="OriginID" Type="String" />
        <asp:Parameter Name="Tag" Type="String" />
        <asp:Parameter Name="InStock" Type="String" />
        <asp:Parameter Name="IsHot" Type="String" />
        <asp:Parameter Name="IsNew" Type="String" />
        <asp:Parameter Name="IsBestSeller" Type="String" />
        <asp:Parameter Name="IsSaleOff" Type="String" />
        <asp:Parameter Name="IsShowOnHomePage" Type="String" />
        <asp:Parameter Name="FromDate" Type="String" />
        <asp:Parameter Name="ToDate" Type="String" />
        <asp:Parameter Name="Priority" Type="String" />
        <asp:Parameter DefaultValue="True" Name="IsAvailable" Type="String" />
        <asp:Parameter DefaultValue="True" Name="SortByPriority" Type="String" />
    </SelectParameters>
</asp:ObjectDataSource>
```

```

<asp:ObjectDataSource ID="odsProductDetails" runat="server" SelectMethod="ProductSelectOne"
TypeName="TLLib.Product">
    <SelectParameters>
        <asp:QueryStringParameter Name="ProductID" QueryStringField="pi" Type="String" />
    </SelectParameters>
</asp:ObjectDataSource>

<asp:ObjectDataSource ID="odsProductSame" runat="server" SelectMethod="ProductSameSelectAll"
TypeName="TLLib.Product">
    <SelectParameters>
        <asp:Parameter DefaultValue="10" Name="RerultCount" Type="String" />
        <asp:QueryStringParameter DefaultValue="" Name="ProductID" QueryStringField="pi" Type="String" />
    </SelectParameters>
</asp:ObjectDataSource>

<asp:ObjectDataSource ID="odsProductCategory" runat="server"
SelectMethod="ProductCategorySelectAll" TypeName="TLLib.ProductCategory">
    <SelectParameters>
        <asp:Parameter Name="parentID" Type="Int32" />
        <asp:Parameter DefaultValue="1" Name="increaseLevelCount" Type="Int32" />
        <asp:Parameter Name="IsShowOnMenu" Type="String" />
        <asp:Parameter Name="IsShowOnHomePage" Type="String" />
    </SelectParameters>
</asp:ObjectDataSource>

<asp:ObjectDataSource ID="odsProductAlbum" runat="server" SelectMethod="ProductImageSelectAll"
TypeName="TLLib.ProductImage">
    <SelectParameters>
        <asp:QueryStringParameter QueryStringField="pi" Name="ProductID" Type="String" />
        <asp:Parameter DefaultValue="True" Name="IsAvailable" Type="String" />
        <asp:Parameter Name="Priority" Type="String" />
        <asp:Parameter DefaultValue="True" Name="SortByPriority" Type="String" />
    </SelectParameters>
</asp:ObjectDataSource>

<asp:HiddenField ID="hdnParentIDSub" runat="server" Value='<%# Eval("ProductCategoryID") %>' />

<asp:ObjectDataSource ID="odsMenuProductSub" runat="server"
SelectMethod="ProductCategorySelectAll" TypeName="TLLib.ProductCategory">
    <SelectParameters>
        <asp:ControlParameter ControlID="hdnParentIDSub" Name="parentID" PropertyName="Value"
                                Type="Int32" />
        <asp:Parameter DefaultValue="1" Name="increaseLevelCount" Type="Int32" />
        <asp:Parameter Name="IsShowOnMenu" Type="String" />
        <asp:Parameter Name="IsShowOnHomePage" Type="String" />
    </SelectParameters>
</asp:ObjectDataSource>

```

III.Tag img

```
<img alt='<%# Eval("FileName") %>' src='<%# "~/res/advertisement/" + Eval("FileName") %>'
visible='<%# string.IsNullOrEmpty( Eval("FileName").ToString()) ? false : true %>'
runat="server" />
```

```
<img alt='<%# Eval("PartnerImage") %>' src='<%# "~/res/partner/" + Eval("PartnerImage")
%>' visible='<%# string.IsNullOrEmpty( Eval("PartnerImage").ToString()) ? false : true
%>' runat="server" />
```

```
<img alt='<%# Eval("ImageName") %>' src='<%# "~/res/product/" + Eval("ImageName") %>'
visible='<%# string.IsNullOrEmpty( Eval("ImageName").ToString()) ? false : true %>'
runat="server" />
```

IV.Tag a

```
<%# progressTitle(Eval("ProductName")) + "-pci-" + Eval("CategoryID") + "-pi-" +
Eval("ProductID") + ".aspx" %>
```

```
<%# progressTitle(Eval("ProductCategoryName")) + "-pci-" + Eval("ProductCategoryID") + ".aspx" %>
```

```
<%# progressTitle(Eval("ProductName")) + "-tt-" + Eval("ProductID") + ".aspx" %>
```

```
protected string progressTitle(object input)
{
    return TLLib.Common.ConvertTitle(input.ToString());
}
```

V. Function Price

```
Gia: <%# !string.IsNullOrEmpty(Eval("Price").ToString()) ?
(string.Format("{0:##,###.##}", Eval("Price")).Replace('.', '*').Replace(',',
'.').Replace('*', ',') + " VND") : "0" %>
```

VI.Function Description

```
<%# TLLib.Common.SplitSummary(Eval("Description").ToString(), 260) %>
```

VII. Function CreateDate

```
<%# string.Format("{0:dd/MM/yyyy}", Eval("CreateDate")) %>
```

VIII. Datapager

```
<asp:DataPager ID="DataPager1" runat="server" PageSize="12" PagedControlID="lstSanPham">
    <Fields>
        <asp:NextPreviousPagerField ButtonType="Link" ShowFirstPageButton="true" ShowNextPageButton="false"
ShowPreviousPageButton="false" ButtonCssClass="first fa fa-backward RenderDisabledButtonsAsLabels="true"
FirstPageText="" />
        <asp:NextPreviousPagerField ButtonType="Link" ShowFirstPageButton="false" ShowNextPageButton="false"
ShowPreviousPageButton="true" ButtonCssClass="prev fa fa-caret-left" RenderDisabledButtonsAsLabels="true"
PreviousPageText="" />
        <asp:NumericPagerField ButtonCount="5" NumericButtonCssClass="numer-paging"
CurrentPageLabelCssClass="current" />
        <asp:NextPreviousPagerField ButtonType="Link" ShowLastPageButton="false" ShowNextPageButton="true"
ShowPreviousPageButton="false" ButtonCssClass="next fa fa-caret-right" RenderDisabledButtonsAsLabels="true"
NextPageText="" />
        <asp:NextPreviousPagerField ButtonType="Link" ShowLastPageButton="True" ShowNextPageButton="false"
ShowPreviousPageButton="false" ButtonCssClass="last fa fa-forward" RenderDisabledButtonsAsLabels="true"
LastPageText="" />
    </Fields>
</asp:DataPager>
```

IX.Code Breadcum

```
//Trang san pham
<asp:ListView ID="lstBreadcrum" runat="server" DataSourceID="odsBreadcrum"
EnableModelValidation="True">
    <ItemTemplate>
        <%# Container.DataItemIndex ==
((System.Data.DataView)odsBreadcrum.Select()).Count - 1 ? "<span>" +
Eval("ProductCategoryName") + "</span>" : "<a href='" +
progressTitle(Eval("ProductCategoryName")) + "-pc-" + Eval("ProductCategoryID") +
".aspx" + "'"> + Eval("ProductCategoryName") + "</a>  &raquo; " %>
    </ItemTemplate>
    <LayoutTemplate>
        <div id="site">
            <a id="A1" href="~/ " runat="server">Trang chu</a> &raquo; <span
runat="server" id="itemPlaceholder" />
        </div>
    </LayoutTemplate>
</asp:ListView>

<asp:ObjectDataSource ID="odsBreadcrum" runat="server"
SelectMethod="ProductCategoryHierarchyToTopSelectAll" TypeName="TLLib.ProductCategory">
    <SelectParameters>
        <asp:QueryStringParameter Name="CurrentProductCategoryID" QueryStringField="pci"
Type="String" />
    </SelectParameters>
</asp:ObjectDataSource>
```



```

//Trang san pham chi tiet
<div id="site">
    <asp:ListView ID="lstBreadcrum" runat="server" DataSourceID="odsBreadcrum"
EnableModelValidation="True">
        <ItemTemplate>
            <%# "<a href='" + progressTitle(Eval("ProductCategoryName")) + "-pc-" +
Eval("ProductCategoryID") + ".aspx" + "'">" + Eval("ProductCategoryName") + "</a> &raquo;
"%>

            </ItemTemplate>
            <LayoutTemplate>
                <a id="A2" href="~/ " runat="server">Trang chu</a> &raquo; <span
runat="server" id="itemPlaceholder" />
            </LayoutTemplate>
        </asp:ListView>
        <asp:ObjectDataSource ID="odsBreadcrum" runat="server"
SelectMethod="ProductCategoryHierarchyToTopSelectAll"
TypeName="TLLib.ProductCategory">
            <SelectParameters>
                <asp:QueryStringParameter Name="CurrentProductCategoryID"
QueryStringField="pci"
                Type="String" />
            </SelectParameters>
        </asp:ObjectDataSource>
        <asp:Label ID="lblProductTitle" runat="server"></asp:Label>
    </div>

--WHILE @parentID is not NULL
WHILE @parentID is NULL

```

X. Product sub "-"

```

// File Common

public void RecursiveFillTree1(DataTable dtParent, int parentID, string
parentColumnName, string displayColumnName, string valueColumnName, int
increaseLevelCount, string IsShowOnMenu, string IsShowOnHomePage, string
SeparatorCharacter)
{
    if (dt.Columns.Count == 0)
    {
        foreach (DataColumn dc in dtParent.Columns)
        {
            dt.Columns.Add(dc.ColumnName);
        }
        dt.Columns.Add("Level");
    }
}

```

```

level++; //on the each call level increment 1
System.Text.StringBuilder appender = new System.Text.StringBuilder();

for (int j = 0; j < level; j++)
    appender.Append(SeparatorCharacter);

var dv = new DataView(dtParent);

//dv.RowFilter = string.Format(parentColumnName + " = {0} AND IsAvailable = 1 " +
dv.RowFilter = string.Format(parentColumnName + " = {0}" +
(string.IsNullOrEmpty(IsShowOnMenu) ? "" : " AND IsShowOnMenu = " + IsShowOnMenu) +
(string.IsNullOrEmpty(IsShowOnHomePage) ? "" : " AND IsShowOnHomePage = " +
IsShowOnHomePage), parentID);

if (dv.Count > 0 && (level <= increaseLevelCount - 1 || increaseLevelCount == -1))
{
    foreach (DataRowView drv in dv)
    {
        var columnLength = dt.Columns.Count;
        object[] obj = new object[columnLength];
        for (int i = 0; i < dtParent.Columns.Count; i++)
        {
            if (dtParent.Columns[i].ColumnName == displayColumnName)
                obj[i] = HttpContext.Current.Server.HtmlDecode(appender.ToString() +
drv[i]);
            else
                obj[i] = drv[i];
        }
        obj[columnLength - 1] = level;
        dt.Rows.Add(obj);
        RecursiveFillTree1(dtParent, int.Parse(drv[valueColumnName].ToString()),
parentColumnName, displayColumnName, valueColumnName, increaseLevelCount, IsShowOnMenu,
IsShowOnHomePage, SeparatorCharacter);
    }
}

level--; //on the each function end level will decrement by 1
}

```

```
// File ProductCategory
```

```
oCommon.RecursiveFillTree1(dt, parentID, "ParentID", "ProductCategoryName",  
"ProductCategoryID", increaseLevelCount, IsShowOnMenu, IsShowOnHomePage, "-");
```

```
vao cho public DataTable ProductCategorySelectAll(int parentID, int increaseLevelCount,  
string IsShowOnMenu, string IsShowOnHomePage)
```

XI.Code behind Meta

```
if (!IsPostBack)  
{  
  
    Page.Title = "";  
    var meta = new HtmlMeta() { Name = "description", Content = "" };  
    Header.Controls.Add(meta);  
}  
  
if (!IsPostBack)  
{  
    if (((DataView)odsProduct.Select()).Count <= DataPager1.PageSize)  
    {  
        DataPager1.Visible = false;  
    }  
  
    string strTitle, strDescription, strMetaTitle, strMetaDescription;  
    if (!string.IsNullOrEmpty(Request.QueryString["pi"]))  
    {  
        var oProduct = new Product();  
        var dv = oProduct.ProductSelectOne(Request.QueryString["pi"]).DefaultView;  
  
        var oProductCategory = new ProductCategory();  
        var dv2 = oProductCategory.ProductCategorySelectOne(Request.QueryString["pci"]).DefaultView;  
  
        if (dv != null && dv.Count <= 0) return;  
        var row = dv[0];  
  
        strTitle = Server.HtmlDecode(row["ProductName"].ToString());  
        strDescription = Server.HtmlDecode(row["Description"].ToString());  
        strMetaTitle = Server.HtmlDecode(row["MetaTittle"].ToString());  
        strMetaDescription = Server.HtmlDecode(row["MetaDescription"].ToString());  
  
        hdnSanPhamDetails.Value = progressTitle(dv2[0]["ProductCategoryName"].ToString()) + "-pci-" +  
dv2[0]["ProductCategoryID"].ToString() + ".aspx";  
    }  
    else  
    {  
        strTitle = strMetaTitle = "Sản Phẩm";  
        strDescription = "";  
        strMetaDescription = "";  
    }  
    Page.Title = !string.IsNullOrEmpty(strMetaTitle) ? strMetaTitle : strTitle;
```

```
    var meta = new HtmlMeta() { Name = "description", Content = !string.IsNullOrEmpty(strMetaDescription) ?  
strMetaDescription : strDescription };  
    Header.Controls.Add(meta);  
    lblTitle.Text = strTitle;  
}  
  
protected void lstTinTuc_DataBound(object sender, EventArgs e)  
{  
    DataPager1.Visible = (DataPager1.PageSize < DataPager1.TotalRowCount);  
}
```