



FREE eBook

LEARNING gridview

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#gridview

Table of Contents

About.....	1
Chapter 1: Getting started with gridview.....	2
Remarks.....	2
Examples.....	2
Installation or Setup.....	2
Binding a GridView with a DataSource e.g. DataTable.....	2
Chapter 2: Nested-GridView.....	4
Introduction.....	4
Syntax.....	4
Parameters.....	4
Remarks.....	4
Examples.....	4
Binding Nested-GridView with DataSource e.g. DataTable.....	4
Credits.....	7

About

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Chapter 1: Getting started with gridview

Remarks

This section provides an overview of what gridview is, and why a developer might want to use it.

It should also mention any large subjects within gridview, and link out to the related topics. Since the Documentation for gridview is new, you may need to create initial versions of those related topics.

Examples

Installation or Setup

`GridView` is an ASP.NET server control and as such simply requires any version of .Net installed on your computer along with a .Net development environment, typically any version of Visual Studio.

Assuming you have a .Net development environment, create any Web Forms Application or MVC Application project.

`GridView` controls can be added via drag-and-drop from the designer toolbox or manually in the html markup on the Web Form/MVC View.

An empty GridView Control:

```
<asp:GridView ID="GridView1" runat="server">
</asp:GridView>
```

Binding a GridView with a DataSource e.g. DataTable

Step 1: Make a design of GridView for displaying your data (**HTML Code**):

```
<asp:GridView ID="GridView1" runat="server" AutoGenerateColumns="false">
  <Columns>
    <asp:TemplateField HeaderText="ID">
      <ItemTemplate>
        <asp:Label ID="lblId" runat="server" Text='<% #Bind("id") %>'></asp:Label>
      </ItemTemplate>
    </asp:TemplateField>
    <asp:TemplateField HeaderText="NAME">
      <ItemTemplate>
        <asp:Label ID="lblName" runat="server" Text='<% #Bind("name") %>'></asp:Label>
      </ItemTemplate>
    </asp:TemplateField>
    <asp:TemplateField HeaderText="COUNTRY">
      <ItemTemplate>
        <asp:Label ID="lblCountry" runat="server" Text='<% #Bind("country")
%>'></asp:Label>
      </ItemTemplate>
    </asp:TemplateField>
  </Columns>
</asp:GridView>
```

```
</asp:TemplateField>
</Columns>
</asp:GridView>
```

Step 2: Bind your GridView with DataTable (.CS Code):

```
protected void Page_Load(object sender, EventArgs e)
{
    if (!IsPostBack)
    {
        // Create a datatable as a DataSource of your GridView
        DataTable dt = new DataTable();

        // Add three columns in datatable and their names and data types
        dt.Columns.Add(new DataColumn("id", typeof(int)));
        dt.Columns.Add(new DataColumn("name", typeof(string)));
        dt.Columns.Add(new DataColumn("country", typeof(string)));

        // Add five records in datatable
        for (int i = 0; i < 5; i++)
        {
            dt.Rows.Add(i, "Name" + i, "Country" + i);
        }

        GridView1.DataSource = dt; // set your datatable to your gridview as datasource
        GridView1.DataBind(); // bind the gridview with datasource
    }
}
```

After Binding your GridView looks like this:

ID	NAME	COUNTRY
0	Name0	Country0
1	Name1	Country1
2	Name2	Country2
3	Name3	Country3
4	Name4	Country4

Note: You can also bind your GridView from database.

Read Getting started with gridview online: <https://riptutorial.com/gridview/topic/10858/getting-started-with-gridview>

Chapter 2: Nested-GridView

Introduction

A Nested-GridView is a GridView control inside the grid row of the parent GridView control.

Syntax

- `<asp:GridView ID="gvParent" runat="server"></asp:GridView>`
- `<asp:GridView ID="gvChild" runat="server"></asp:GridView>`

Parameters

gvParent	It is a parent gridview control which contains a child gridview like <code>gvChild</code> control and other controls in gridview row like Labels, Buttons etc.
<code>gvChild</code>	It is a child gridview control that can also contain some other controls like in parent gridview. It will be nested in <code>gvParent</code> gridview control.

Remarks

Parent gridview can be bind using a simple `DataBind` function like `gvParent.DataBind();`. And for binding Child gridview, you have to bind it in `OnRowDataBound` event of parent gridview.

Examples

Binding Nested-GridView with DataSource e.g. DataTable

1. Design of Nested-GridView (HTML Code):

```
<asp:GridView ID="gvParent" runat="server" AutoGenerateColumns="false"
OnRowDataBound="gvParent_RowDataBound">
  <Columns>
    <asp:TemplateField HeaderText="Parent Column">
      <ItemTemplate>
        <asp:Label ID="lblParent" runat="server" Text='<% #Bind("parent")
%>'></asp:Label>
        <asp:GridView ID="gvChild" AutoGenerateColumns="false" runat="server">
          <Columns>
            <asp:TemplateField HeaderText="Child Column">
              <ItemTemplate>
                <asp:Label ID="lblChild" runat="server" Text='<%
#Bind("child") %>'></asp:Label>
              </ItemTemplate>
            </asp:TemplateField>
          </Columns>
```

```

        </asp:GridView>
    </ItemTemplate>
</asp:TemplateField>
</Columns>
</asp:GridView>

```

2. Binding parent GridView in Page_Load event:

```

DataTable cgv = new DataTable(); // define temporary a datatable for accessing in rowdatabound
event
protected void Page_Load(object sender, EventArgs e)
{
    if (!IsPostBack)
    {
        // Create a datatable as a DataSource of your GridViews
        DataTable dtParent = new DataTable(); // parent gridview datasource
        DataTable dtChild = new DataTable(); // child gridview datasource

        // Add column(s) in datatables and their names and data types
        dtParent.Columns.Add(new DataColumn("parent", typeof(string))); // parent column
        dtChild.Columns.Add(new DataColumn("child", typeof(string))); // child column

        // Add two records in parent datatable
        for (int i = 0; i < 2; i++)
            dtParent.Rows.Add("Parent" + i);

        // Add three records in child datatable
        for (int i = 0; i < 3; i++)
            dtChild.Rows.Add("Child" + i);

        cgv = dtChild; // set child datatable to temporary datatable

        gvParent.DataSource = dtParent; // set your parent datatable to parent gridview as
datasource
        gvParent.DataBind(); // bind the gridview with datasource
    }
}

```

3. Binding Child GridView in OrRowDataBound event of parent GridView.

```

protected void gvParent_RowDataBound(object sender, GridViewRowEventArgs e)
{
    if (e.Row.RowType == DataControlRowType.DataRow)
    {
        // find all child gridviews from parent
        GridView gvChild = ((GridView)e.Row.FindControl("gvChild"));

        gvChild.DataSource = cgv; // set your child datatable to parent gridview as datasource
        gvChild.DataBind(); // bind the gridview with datasource
    }
}

```

After binding Nested-GridView looks like:

Parent Column	
Parent0	Parent Column
Child Column	
Child0	Child Columns
Child1	
Child2	
Parent1	
Child Column	
Child0	
Child1	
Child2	

Read Nested-GridView online: <https://riptutorial.com/gridview/topic/10866/nested-gridview>

Credits

S. No	Chapters	Contributors
1	Getting started with gridview	Asif.Ali , Community , fnostro
2	Nested-GridView	Asif.Ali