→ Grid View Control in Asp.net:

→ This control is used to display the data in tabular format to the user.

→ This control will provide very good designing facilities, Editing, facilities, deleting facilities.

→ Execution of grid view control is slow as compared with datalist and repeaters controls.

→ Grid view control will provide sorting facilities and pageing facilities.

* Properties with Gridview Control:-

1. Auto Generate columns ⟨ True (default) / false

2. Auto Generate delete button ⟨ True / false (default)

3. Auto Generate Edit button ⟨ True / false (default)

4. Auto Generate select button ⟨ True / false (default)

5. Columns

6. delete Command

7. Edit Index ⟶ −1 (default)

8. Pager settings

9. Page size ⟶ 10 (default)

10. Selected Index ⟶ −1 (default)

11. Selected Command

12. Show footer ⟨ True / false (default)

13. show header < True (default)
                  false

14. show header when Empty < True
                             false (default)

15. Update Command

1. Auto Generate columns:-

When set to True it is not required to write code for the designing of GridView Control.

When set to false we need to write code for designing of the GridView Control.

2. Auto Generate delete button:-

When set to true→a delete button will be created for Every row within the Grid view Control.

When set to false→delete button will, not be created within the row of Gridview Control.

3. Auto Generate Edit Button:-

When set to true An Edit button will be created for Every row of the GridView Control.

false Edit button will not be created for Every row of Grid view Control.

4. Auto Generate select button:-

When set to true a select button will be created for Every row of Grid view Control.

false select button will not be created for Every row of GridView Control.

5. Columns :-

this will store the list of columns within the Grid View Control.

6. Delete command :-

used to set or get the delete query that is to be associated with GridView Control.

7. Edit Index :-

When set to -1 Grid View is displayed in Static mode, When set to $n, (n+1)^{th}$ row of Grid View is displayed in Editable mode.

8. Pager Setting :-

used to set or get required settings to the pager of the GridView Control.

9. Page size :-

used to set or get a value that indicates count of records to be displayed to the user in Each page of the GridView.

10. Selected Index :-

This property is used to set or get The Index Value of the row selected by the user within the GridView Control.

11. Select Command:-

   used to set or get the Select query that is associated with Grid view control.

12. Show footer:-

   When set to true footer row is displayed to the user false footer row is not displayed to the user.

13. Show header:-

   When set to true header row is displayed to the user false header row is not displayed to the user.

14. Show Header When Empty:-

   When set to true header row will be displayed to the user, if datasource doesn't contain any records. false header row will not be displayed to the user, if datasource doesn't contain any records.

15. Update Command:-

   used to set or get update query that is to be associated with the GridView control.

* Events Associated With Grid View Control:

1. Data Binding
2. Page Index changed
3. Page Index changing
4. Row Cancelling edit
5. Row Command
6. Row Created
7. Row deleted

8. Row deleting
9. Row updated
10. Selected Index changed
11. Selected Index Changing
12. Row updating
13. sorted
14. sorting

1. Data Binding :-

This Event Will be fired (or) raised When We bind the data to the (datalist) Grid View Control.

2. Page Index changed :-

This Event Will be fired When Index value of the page is changed.

3. Page Index changing :-

→ This Event Will be fired When user clicks on Any button Within the pager of the grid view Page Control.

→ The class Associated With this Event is Grid View page Event Args.

→ This class contains two properties.

1. Cancel
2. NEW page Index

1. Cancel :-

This property is used to cancel the page index changing Event.

2. New page Index:-

This property will return the Index value of the page from which page Index changing Event is fired.

4. Row Cancelling Edit:-

This Event will be fired When user clicks on cancel button that is generated by setting Auto generate edit button to true.

The class Associated With this Event is GridView Cancel Edit Event args.

There are two properties Associated With this class.

    1. Cancel

    2. Row Index

1. Cancel :-

This property is used to cancel the Row Cancelling Edit Event.

2. Row Index:-

This property will return the Index value of the row from which row Cancelling Edit Event is

fired.

5. Row Command :-

→ This event will be fired when user clicks on Any child control. Within the Row of Grid View Control.

→ The class Associated with this event is Grid View Command Event Args.

→ Properties Associated with this class are

    1. Command Argument

    2. Command name

    3. Command Source

    4. handled

4. Handled :-

Handled is a boolean property used to set os get a value that Indicates & now command Event should be handled os not.

6. Row Created :-

this event will be fired when a new row is Created with in the Grid View Control.

7. Row Deleted :-

this event will be fired when a now is deleted from the Grid View Control.

8. Row Deleting :-

→ This Event will be fired when user clicks on delete button within a grid view row that is Generated by setting Auto generate delete button to true.

→ The class Associated with this Event is grid View delete Event Args.

→ Properties Associated With this class are

      1. Cancel

      2. Keys

      3. Row Index

      4. Values

2. Keys :-

    this property will return the primary key or Keys. Values of the row in which user clicked on delete button.

4. Values :-

    This property will return the Values of the row from which delete Event is fired.

9. Row updated :-

    this Event will be fired when any row data with in the Grid View is updated (or) modify.

10. Row

→ This event will be fired when user clicks on update button of any row that is created by setting Auto generate Edit button to True.

→ The class Associated With this event is Grid View update Event Args.

→ This class has following Properties.

    1. Cancel
    2. Keys
    3. New Values
    4. Old Values
    5. Row Index

3. New Values:-

This property will return the Values of Each field after modification of the data.

4. Old Values:-

This property will return the Value of all fields before modification of the data.

11. Selected Index changed Event:-

This event will be fired when selected Index property of the grid View Control changes.

12. Selected Index changing Event:-

This event will be fired when user clicks on Select button of Any Grid View row that is

Created Automatically by setting Auto generate select button to true.

→ class Associated With this Event is Grid View Select Event Args.

→ Properties Associated With this class are
      1. Cancel
      2. NEW Selected Index

2. NEW Selected Index:-

→ This property will return Index Value of the row that is selected by the user within the Grid View Control.

13. Sorted Event:-

This Event will be fired When user sorts the data on any column with in the grid View control.

14. Sorting Event:-

→ This Event will be fired when user clicks on Any column heading after setting allow sorting to true with in the Grid View Control.

→ Class Associated with this Event is Grid View sort Event Args.

→ Properties Associated With this class are
      1. Cancel
      2. Sort Direction ⟨ Ascending / Descending
      3. Sort Expression

2. Sort Direction:-

used to set of get a value that Indicates data should be sorted in Ascending order (or) descending order with in the Grid View Control.

3. Sort Expression:-

used to set of get the required Query Expression that is used to sort the data.

15. Row Edited :- (Event)

This Event will be fired once user completes Editing of a row with in the grid View control.

16. Row Editing Event:-

This Event will be fired when user clicks on Edit button of any row that is generated Automatically by setting Auto generate Edit button to true.

→ The class associated with this Event is Grid View Edit Event Args.

→ Properties of this class are

    1. Cancel

    2. NEW Edit Index

2. NEW Edit Index :-

This property will return Index value of the row In which user clicked Edit button.

Properties in Grid view Control in Asp.net :-

16. Allow Paging :-

This When set to true. We can provide Paging facilities to the grid view control. false We can't provide paging facilities to the grid view. Control.

17. Allow Sorting :-

When set to true We can provide sorting facilities to the grid view control.

* Example to display the data in G.V.C :-

GrpID	EName	Designation	DOJ	Salary	DeptNo
101	Raju	Developer	1/1/23	40000	10
102	Gopal	DSE	2/2/23	50000	20
103	ANand	TL	3/3/23	60000	30
104	Lalitha	HR	4/4/23	70000	40

↓ GridView1   ↓ Sampleq.aspx

* Create a NCW Webpage With the Name Sample9. aspx
* Create grid view control. go to .cs file Write the following code.

```csharp
using system; data;
using system. data. sql Client;

sql connection con; Dataset DS;
sql dataAdapter Da;
Protected void Page - Load (          "          )
{
    String sql con = "          ;"
    con = new sqlConnection (sqlcon);
    Get Data ();
}
Private void GetData ()
{
    Da = new sql data Adapter ("select * from Empdetails", con);
    DS = new data set ();
    Da.Fill (DS, "Emp");
    Gridview 1. DataSource = DS. Tables [0];
    Gridview 1. DataBind ();
}
```