

4. Write a note on WebControl events & what is AutoPostBack()

- ASP.NET provides important feature event handling to web forms. It ~~lets~~ lets users to implement event-based model for the application. Example: A user can add a button to an ASP.NET web form page & then write an event handler for the buttons click event. ASP.NET web forms allows events on both client & server sides.
- In ASP.NET web forms pages, however events associated with server controls originates on client but are handled on web server by ASP.NET.
- An event is an action or occurrence such as mouse click, a key press, mouse movements, or any system-generated notification. A process communicates through events. Example: Interrupts are system-generated events. When the events occur, the application should be able to respond to it & manage it.
- Events in ASP.NET raised at the client machine, & handled at the server machine. Example: A user clicks a button displayed in the browser. A click event is raised. The browser handled this client-sided event by it to the server.

ASP.NET web forms follow a standard .NET framework pattern for event-handler methods. All events pass two arguments: an object representing the object that raised the event, & and an event object contained any specific information.

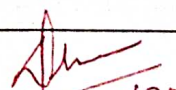
Web control Events

Event	Web controls that provide it
Click	Button, ImageButton
TextChanged	TextBox (fires only after the user changes the focus to another control)
CheckedChanged	CheckBox, RadioButton
SelectedIndexChanged	DropDownList, ListBox, CheckBoxList, RadioButtonList

- AutoPostBack()

- AutoPostBack is a mechanism by which the page will be posted back to the server automatically based on some events in the web controls.
- AutoPostBack is used to set or return whether or not an automatic postback occurs when the user selects an item in a list control.
- Whenever a user sets autopostback attribute to TRUE on any of the controls, the .NET Framework will automatically insert few lines of code into HTML Generated form to implement this functionality
- Default value is FALSE
- Syntax:

```
<asp:SomeListControl AutoPostBack = "TRUE|FALSE"  
runat = "server" />
```



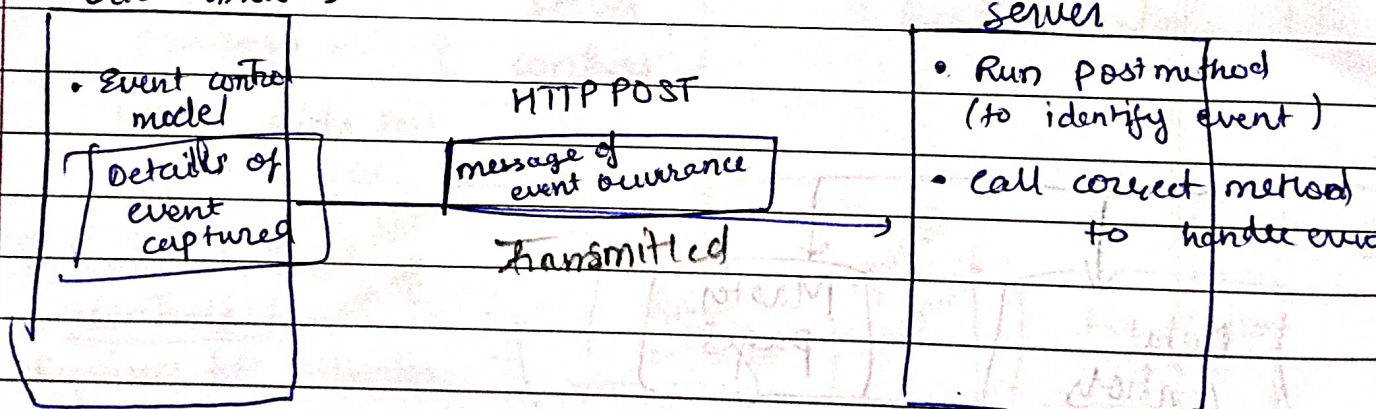
3. Web control Events

* The events due to ASP.NET Web Forms control are different from other events at client side.

* In client-based apps :
events are handled at client side.

* In events related to server controls :
- events occur due to client
- but are handled on web-servers.

Process of event occurrence



ASP.NET
does

capture

transmit

Run

Types of web control events.

↓ Validation

Post Back

Cached

* Validation event

- is handle an pg before posting pg to server

* PostBack event

- In this event, we send an Asp.net pg to server for processing
- occur when specific credential is to be crosschecked.

Eg: verification of username & password from database.

- To capture postback event using web control, implement System.Web.UI.IPostBack interface

↓
permits web control to raise events on server as response to postback from client