# ASP. NET

**New Notes** 

By

# Sudhkar Sharma Naresh Technology

### SRI RAGHAVENDRA XEROX

Software Languages Material Available
Beside Bangalore Ayyangar Bakery, Opp. C DAC, Ameerpet, Hyderabad.
Cell: 9951596199



TO,	20/2000	Applications Vs . Web applicati	ons la
	feature	Window Application	Web Application.
~ (C 1)	) Bwld	They are easy to build	They are complex to build,
	Installing Upgrade	To installed on every machine  Must be upgraded on	requires serval imperment- -ations.  To be installed only on server.  Upgraded only on server.
( 4)	framework	every machine Requires framework on	Requires framework only
	•	every machine	on server.
( )	Catastropic failures	Leads to the failure of Individual machine	Leads to the failure of entire system.
1	t Web Tour		
C 2	2. Types of n	etwork.	part of internet
0	- IE	τ <b>F</b>	
	il w	3C (HTMLS)	
0.	Harrist - n	13 C WAT WHATWG	
0.	4. Web sex	vec:	Transfer of the Carry Control
	<sup>to</sup> No. 2000	- Microsoft IIS	
	a de la companya de l	- IBM Lotu.	The second secon
Fig. C	5 Web site	- is a virtual directory	in webserver
	eser".	- Usex cannot interact	
10	6. Web ADD	lication - User interacts	
	7. Blog		
	8. wiki		
Q			
0	este, garage de la companya de la c La companya de la co		

1) Network: A computer network comprises of group of computers.	0
Connecting with each, other for showing of information and	0
resources.	0
	0
2. Types of networks:	$\bigcirc$
Computer networks one classified into three major types based on	0
their range and capacity. They are-	0
a) LAN- (local area network)	0
b) MAN- (Metropolitian area network)	0
c) WAN - (Wide area network)	0
3. About Internet : It is a wide area network that connects computers	$\bigcirc$
3. About Internet 11+18 a wide week 11000	$\bigcirc$
all over the world.	$\subset$
4. Web: 1) Web is a portion of internet.	$\supset$
2) The concept of web was introduced by Tim Berners Lee	<u> </u>
3) Later web was developed by IIEF. (Internet Engineering	$\bigcirc$
task force)	$\bigcirc$
4) WBC. World wide web consortium. It mountains the stand-	Ċ
	$\mathcal{C}$
- ards of web.	$\subset$
s) The latest version of HTML is being developed by 2 groups.	$\subset$
2) WHATWG - Web hypertext application technology work group.	$\subset$
	$\subset$
	$\subset$
	$\subset$
	$\subset$
(1) Microsoft IIS (Internet information services)	$\supset$
2) Apache Tomcat -, PHP,	$\subset$
3) JBOSS	$\supset$
3) Light PGD	$\bigcirc$
5) IBM Lotus - Offline Sexver.	).
c) Web sphere etc.	$\bigcup$
	$\mathcal{C}$
	)

Agreed of the format of the second of the se	
O & Website: It is a virtual directo	ry in the webserver. A typical
Website will not allow any inte	· ·
Ex. www.nareshit.in.	
Ogweb Application: It is similar to a with were	website but allows interaction
Ex. www.bookmyshow.com	
irete.gov.in	
07. Web page: Web page are of types	ኔ :
() <del>1) \$1ati</del> 6	
O Information in a website is store	ed in the form of Hypertext
O documents known as webpage. The	y are classified into two types:
() a) Static page	
О b) Dynamic page.	
a) Static page: The pages that are	predefined in the server and are
ready for access are known as as	
Ex. Home. html	
O index. htms	
O when we export to server - htm	<b>~</b>
O when we directly save it to sex	
O b) Dynamic pages: The pages tha	+ are generated as a response to
the client request are known as	dynamic pages.
Ex. Les results of aspr	NET - SPX
O cricket as p	
O movies. php	
O pmr.jsp.	
O 8) URLF http - Normal protocol  https - secured protool	
O tacebook . https://facebook.com-	
O Bank gites.	
URL: (Uniform resource locator)	
On the wirthin pain generated by	a web server in order to access
the resources of a web site.	į.

Ex. http://www.nareshit.in	(	$\bigcirc$
Ex. http://www.nakeshit.in Protos Domain name.	,	$\bigcirc$
Protol Domain name.		$\bigcirc$
7) Protool: Computers in the network communicate with	each other by using	$\bigcirc$
a set of rules known as protocols. Web we the		)
A) HTTP		$\supset$
1) HTTPS -> Secured.		$\bigcirc$
A Dina (Contraction of the Contraction of the Contr	7. 4	$\bigcirc$
* Blog: (Web-log) Micro blogging - Twitter		$\bigcirc$
Blogs are governals of on internet usually pr	and the second s	$\bigcirc$
-dual users and updated periodically. If h		$\bigcirc$
their personal information on a single	then it is con	$\bigcirc$
refored as microblog.	(	$\bigcirc$
Ex. Twitter.		$\bigcirc$
* Java-Script		() ,
+ ΔSP		O A
Requirements of designing web applications, page		
	,	_ О
A web page - is having two paths -		
1) Virtual -> 2) Physical -> Cannot visible to the user.	• • • • • • • • • • • • • • • • • • • •	
	. (	_ О
* WIKI (Quick):- A WIKI allows any user to \$	edit its content.	$\bigcirc$
	8 (	$\bigcirc$
Ex. www.wikipedia.com		$\bigcirc$
www.imdb.com.		()
A web debugger : A web debugger tracks a perto	omance of your	$\supset$
probpage. Which includes the request	and response time,	$\supset$
files accessed, bytes received, etc.	· · · · · · · · · · · · · · · · · · ·	$\bigcirc$
·	(	$\supset$
Ex. 1) fiddler		$\bigcirc$
2) Internet Explorer debugger (F12)		$\bigcirc$
		$\bigcirc$

0	Note: Res S/W Requirements to develop an web Application: fideer 3
. 0	1. HTML
$\circ$	2. CSS
$\circ$	3. Client side Script
0	Javascript / Jquery, Angular Js, BackBone is, Knockout Js.
0	4. Server side script
	ASP, ASPX, JSP, PHP
0.	5- CMS (Content management system)
$\odot$	Dream, Weaver, Micromedia Home suite, Visual Studio, Telestik
$\circ$	Developer express, etc.
$\circ$	6. Web. Debugger: fiddler, Internet explorer debugger.
$\bigcirc$	7. UI Designing Tools:
$\bigcirc$	Photoshop, Flash, GIF Animator
	8. Database
	SOL sexuer, Oracle, Ms Access, MySOL, Sybone, DB2.
$\bigcirc$	to locating sub Convers
	* Locating web Server:
$\bigcirc$	1) Open windows control panel
$\bigcirc$	2) Switch to A large icon view 3) goto Administrative tools and look for IIS (internet info-
0	
$\bigcirc$	- mation securces Manager). It it is there then its ox-
. / O.	4) It it is not there we have to add it.
0	* Adding IES to our computer.
	1) niger control panel
. 0.	2) program & for features - then select the twin with
0	features on or DFF
$\bigcirc$	TIE Hom Wick OK.
$\bigcirc$	3) Select Checkbox for II6. then click OK.
	Shortcut to open sexver:
$\bigcirc$	fum → Inetingn.
	Its - Manages Applications
$\bigcirc$	
$\circ$	
0	٠. 

· ·			
A Creating a new	website on IIIs.		0
1. Open IIS. i.e	Run - inet mgr. 1	:	0
2. Expand local ce		en e	0
( http://loca	'		$\bigcirc$
3. Expand "sites" fol	der.	**	$\bigcirc$
4. Wight click on			0
5. Select the option	add virtual directory		0
6. Give an alias n	ame for website.	en e	$\bigcirc$
Ex snapdeal.		en e	$\bigcirc$
7 Select a physical D:1 Snapdeal Websi	path and ie C: Ashapdeal te and lok).		0
	location of website on IIs is	"c:\netpub\	$\bigcirc$
	10000	gradient Carlo	$\bigcirc$
www.Root"	· ·	,一个 <del>人有</del> 有	$\bigcirc$
Static pages:		wer and it is	$\bigcirc$
1. A static page	is predefined in the webse	)(((00))	$\bigcirc$
weady for access.			$\bigcirc$
o. The language H	TML is used to design stati	c page-	$\bigcirc$
3. HTML is a present			$\bigcirc$
:	of a set of commands end	losed in "Z"	$\bigcirc$
known as elemen		), os di (1,7 - 2 ), i	0
			$\bigcirc$
si the following acc	basic html elements.		0
Element	Description.		$\bigcirc$
1. XIDOCTYPE HTML>	It specifies that page	is using HTMLS.	U C
2. HTML < html >	It indicates the language		0
	< to the total >.		$\bigcirc$
			0
3. Chead>	Describes the head section	s of a page, which	
	comprises of title, link a	nd meta.	0
4. <title>&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;math&gt;\bigcirc&lt;/math&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;4, 0, 0, 0, 0, 0&lt;/th&gt;&lt;th&gt;It describes the title to&lt;/th&gt;&lt;th&gt;be displayed&lt;/th&gt;&lt;th&gt;&lt;math&gt;\bigcirc&lt;/math&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;in the browser title ba&lt;/th&gt;&lt;th&gt;r.,&lt;/th&gt;&lt;th&gt;()&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;math&gt;\bigcirc&lt;/math&gt;&lt;/th&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>			

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

00000000

Element	Description.
1. Aside	Contains information that is not relevant to
:	website. Ex- Ads.
2. Article	Publishesh information about website.
3. Dialog	Allows interaction with the wer.
4. Header	Header section of page
5. Folter	Bottom Margine of page.
6. Section	content to be displayed in body.
7. nav	Navigation axea
z. Menu	Menu inside the navigation area
9. figure	Tinnage image with caption.
o. Span	Container with line break.
iz div	Container with line break.

	Mu		
	HOME	About	contact
Section -			Aside
	figur		Ads
• ,	Captio	in	Article
ZDiv>			
2 spam>			Dialog
Footer			
@ c	opyright 2	2015	·

```
Sowice code:
                                                                   \bigcirc
  <! DOCTYPE html>
  < html>
  <head></head>
  1 body>
  < header > Style = "background - color: red; color: white;
   text-align: centre ">
   Lnav>
8
   zmenu>
    Home < span> 1</span>
10
   About < span > 1 < /span>
    Contact < span> / </span>
   2/menu>
   </nav>
   </header>
   < section>
   <a href="mailto://www.here/aside>"> aside>
   <action > Special offers </acticle>
   < dialog > Post your comment </dialog>
   <figure style = "background-color: yellow">
   <img serc = "g.jpg" width = "loo". height = "loo">
   < caption > Figure 1.1 </ caption>
   1/figure>
   <div > Welcome to NareshIT </div>
   </section>
   <footer style = "background-color: red; color: white; text-</pre>
     align: centre ">
     * & copy copyright 2015
    </pobter >
    L/body>
    </html>
```

 $\bigcirc$ 

```
links the external files link like CSS, TE JS
   link>
                     Shortcut icons, etc.
   <meta>
                    It describes the metadata of your website,
                    which is used by SEO (Search engine optimizato)
  Signal R.
CA Creating first static page with a favourite I con.
  1. Open respaint - Set page size to 16x16 pixels. Drop am icon and
    save the file in your website physical path by name "favicon"
           (D:\ snapdeal \ favicon.png)
   3. Depen windows command prompt. (Run+cmd)
C 4. Change to your website location.
C
        ·C:> CD D:\Snapdeal
5. Rename the icon favicon into icon file.
   Distrename faviconing faviconico.
  6. Open notepad and type the following code
     < ! DOCTYPE html>
     <html>
    < head>
\bigcirc
    <tiHe> Snapdeal | Hyd </file>
\subset
    Clink rel = "Shortcut icon"
<u>(</u>.
           href = "favicon.ico">
    //head>
C.
    21 fitml>
\bigcirc
   ·7. Save the file in your website folder by name "index html"
   8. Open browser any. Chrome, IE, mosila, etc and type
\bigcirc
following URL
\bigcirc
         http://localhost./snapdeal/index.html.
\bigcirc
```

,0

A (reating a Static page with meta. Meta represents metadata; It contains information about your application. SEO we your website meta contain to search and summarize your website information in the search results.  $\bigcirc$ H+ml provides the following attributed for Kmetareleme-- nts. in chead> section. a) Charset b) Name = Keywords c) Name = Description d) Http-equiv = Refresh \* Source code: index. html. Code = <! DOCTUPE html> < h+ml> <head> < title> · Snapdeal | HYD · </title> < link rel = " Shortcut i con".</p> href = "favicon.ico"> Zmeta · charset = "utf = 8"> < meta name = "keywords"> Content = "best online shopping Buy Online"> Kmetat hame = "Description" Content = "best shopping site for electronics, twiniture, cars, ...> Zmeta http-equiv = "refresh". content = "3"> </head> </h>

(6) C \* Client side script: A client side script provides set of statements that are execu--ted on the client machine. This will reduce the burden on  $\bigcirc$ Server. Client side scripts are mostly used for client side validations  $\subset$ and went side interactions. The commonly used wientside scripts are Js, javery, angular Js, Backbone Js, knockout Js, etc Using Javascript for clientside interactions. & Javascript is an object-based programming system (OBPS) that provi--des a collection of build-in objects, which controls client side interactions. Javascript Document Object model (DOM) C window C. navigator history location Self, window document frames parent, top Navigator History document ouray of Location window object object windows object object objects objects plugins[] mime allEI forms[] Types [] array of Array of form array of All array plugin objects objects. objects of mime objects applets []  $\bigcirc$ elements [] images [] array of form ( : wirey of acray of applet image obj. element objects objects Button emba di [] Checkbox -links[]  $\subset$ array of avoing of link hidd en  $\bigcirc$ embaded obj. objects password  $\bigcirc$ Radio anchors [] layers [] Reset array of anwiray of options[]  $\bigcirc$ Select - chor objects layer obj Submit array of

0

option

objects

Text acea

```
Example: Javascript Window Object to print page.
   < ! DOCTYPE html>
   < html>
    <head>
    </head>
    < body>
    < form>

Click print Button to print this page 
    < input type = " Button" . name = " btn print" value = " print"
     ondick = " window. print ()">
    </form>
    </body>
    </h
* Client side validations using * Tavascript :
 Validations are required in webapplications to ensure that
 contradictonary and unautherized dato is not get stored.
 into the db.
Ex. Z! DOCTYPE html >
    <htm>>
    < head >
    Z script type = "fext Gavascript" >
    function · Register (lick ()
     vax mobile = document. frm legister txt Mobile value;
     var p=/1+91[0-9] {103/;
         (mobile. match (P))
      document. write ("Registered Successfully ... ");
      else
      document.get Element By Id ("msq"). Style. color = "red";
```

```
document get Element By Id ("msg"). inn exHTML = "Imalid Mobile";
     </script>
     </head>
     < body >
    < form name = "frm Register">
     Mobile Number:
    <input type = "text" name = "txtMobile" placeholder = "eq ::</pre>
     ,+910000000000 ">
     < spanid = "msq".></span>
     <br>>
     <input type = "button";</pre>
     name = "btn Register "value = "Register" ondict = "fegister (lide()">
     </form>
\bigcirc
    2/body>
    </html>
\bigcirc
0
\bigcirc
```

#### ASP. NET (Active Server Pages)

- · Asp. Net is a server side technology
- It satisfies the request of wents by sending and receiving the data
- · Technically Aspinet is a framework that provides set of classes to build rich interactive and responsive web application.
- . The classes of ASP. NET framework are defined by the libr- of Laxy System. Web. UI

#### A ASP VS ASP. NET

ASP

side technology.

## 1. It is microsoft's earlier server

- 2. It has no language, wes
  VB as serverside language
- 3. It doesn't have its own controls, was HTML controls
- 4. It wer inline documentation where code and design are in same page
- 5. NOT ASP. NET compact

#### ASP. NET.

1) It is microsoft's new Server side technology build on . NET framework  $\bigcirc$  .

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

()

 $\bigcirc$ 

0

 $\bigcirc$ 

 $\cdot$ 

 $\bigcirc$ 

0

- 2. It have its own langua--ges, wes all - NET tramwork languages like C#, VB, etc.
- controls and doesn't require
  - code behind technique where code and design are present in different pages.
  - 5. It is fully ASP compact

.,

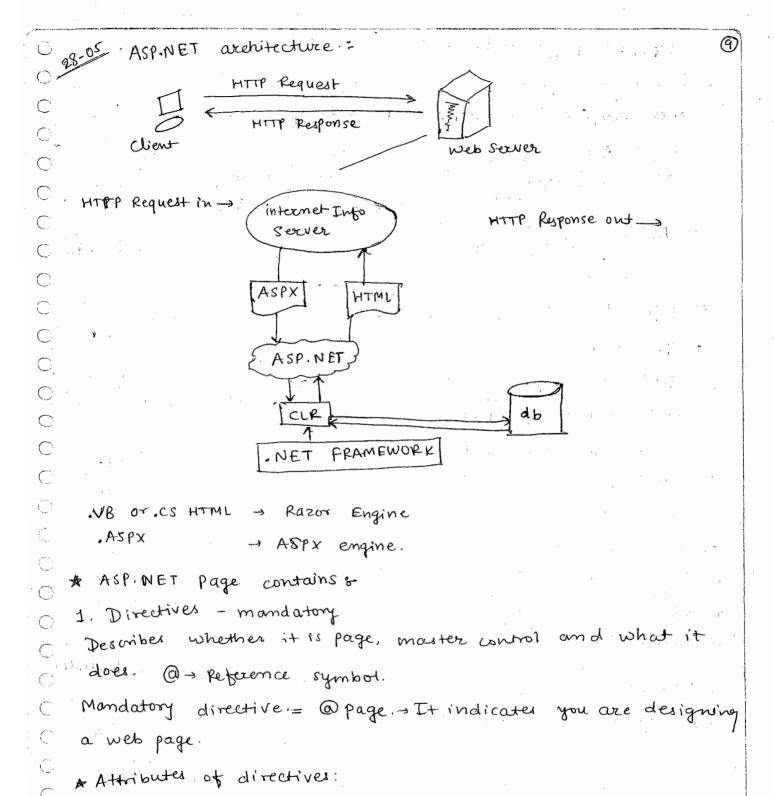
- A Features of ASP. NET.
- 1) Buit on . NET framework.
  - 2. Simple programming model
  - 3. Multibrowser Support
  - 4. XCOPY deployment
  - 5. XML configuration
  - 6- Debugging
  - 7. Extensibility (Loosely coupled and extensible Architecture)
  - 8. Seperation of code and WI
  - 9. Security

()

- 10. ASPX, ASP side by side.
- \* Drawbacks of ASP. NET.
  - 1. Doesn't support Test Driven Application development
  - #. (Unit testing is not possible)
- O 2. Doesn't support complete HTML
  - 3. Applications are heavy and not light weight
- 0 4. lots of server side interaction.
  - A Test driven Application development &

A Solm introduced by microsoft to overcome these problems, is:

* What's New in ASPINET.4.5?
1. Bundling and Minification &
Bunding. It is & reducing the no of lines in coding by
changing the logic.
2. Rounting, Youtube in india Browser asks you for to access your location get your location related Advertisements.
3. Bootstrap: Website which provides hundreds of styles for
designing. It is time saving
4. Signal R: Without refreshing a page we get a message
5. Open ID-Identity.  Whenever we want to you we a website like a tutorials.  On the property of the condition is you have to
or something but the condition is you have to
the Derson
Las a Mais Autorious (Vice
But instead of registering we can login with facebook
or anochet. That is Open ID.
C. WEB API. 7. Facebook Application
A whats new in ASP. NET 4.6.8
1. ASP. NET UNEXT
L'AA @
3. Rosym Compiler: without recompiling & po the code!
refreshes a pages
a de execution :
5 " La 200 maline Nieuar
6. Background Garbage collector.
6. Dacup
www.channela.smsdn.com  Nww.asp.net
www, asp. net



I. language: C#, VB > It will soutell which language we

are going to use

C 2. Culture:

0

ASP. NET Page structure:	$\bigcirc$
· ASP. NET pages are controlled by using various of types of	$\bigcirc$
view engines like ASPX, Razor, Spark, etc.	$\bigcirc$
ASPX engine recognizes the pages with extension	$\frac{1}{2}$
	$\circ$
ASPX or ASCEX (for controls).	$\bigcirc$
A lazor engine recognizes the pages with extension "as hand	) <b>,</b>
or "VB html"	
	$\mathcal{C}$
A typical ASPX page comprises of following elements:	
1. Directive	
2. Code declaration block - int is	$\bigcirc$
3. Code rendering block -> i=10;	· O
4. Server side commands	
5. XML commande	:
	(_)
6 Server side controls	()
7. HTML controls	0
e. User controls	0
9. Server side includes	$\bigcirc$
10. Literal text	$_{\mathbf{z}}$
1) Directives: The directives defines type of content, which include	. 0
hard country, marker pages, Application	$\bigcirc$
Tirectives provide a set of attroops	$\circ$
used to control the behaviour of a page or application.	$\mathcal{O}$
ASP. NET supports the following directives:	5
1) @page 6) @ Security	)
	$\supset$
·	$\odot$
3) @ master 9) @ Imports, etc	: _)
4) @Application	
s) @ Register	

į.

 $\bigcirc$ 

```
\bigcirc
    1) @ page: The page directive defines attributes for a webform
\bigcirc
    " Attributes
\bigcirc
                       Description.
\bigcirc
    1. language
                   Indicates the page language for codebehind
\bigcirc
                    i.e. (# or VB.
   2- Codebehind
                   Defines the name of codepage for yourderign
\bigcirc
                    page. (home.aspx.cs)
   3. Inherits
                   Specifies the class name of codepage
  4. Autoeventwirely Events will wirely with control if send to set to
                      true
  5. Cuture
                   Sets page culture.
  Syntax: </ @ page Language = "C#" CodeBehind = "home-aspx-c1"
          Inherits = "Home". Auto Event WireUp = "True". Culture = "en-In "/>
ASP uses aspx & engine therefore the extension is aspx.
  * Sexuer side code must be write in < % %>
0
  * Lasp. TextBox
   tag prefix
  * Viewstate: Runat "server", It is like memory. HTML do not
    have viewstere
  A in Descriptor trace = booteam True
\bigcirc
```

0

eval To

* Creating a dynamic page and hosting on ILS.	$\bigcirc$
1. Create a new mebsite on IIs by name as Aspfraject.	0
1. Create a new website on IIs by name asp Aspfroject. 2. Select the physical path for website as "D:\Aspfroject"	0
2. Select the physical parts for web-11-	$\circ$
3. Open notepad application and type the tollowing code	$\circ$
2% @ Page Language = "C#" %>	$\circ$
d suite to	$\circ$
DOCTYPE html	
← hea·	$\bigcirc$
<pre><html></html></pre>	$\overline{}$
Z NEAG / C/ NEAG /	$\circ$
260dy>	$\bigcirc$
< dîv >	$\bigcirc$
Today: 2% Response. Write (Date Time. Now. To String ()); 1,>	
	$\circ$
	0
<pre></pre> <pre> // html &gt; </pre>	$\bigcirc$
	_
	: (_:
4. Save the file in website physical path by name	
	0 0
4. Save the file in website Physical path by name "Welcome.aspx".	0000
4. Save the file in website Physical path by name "Welcome.aspx".  5. Open browser - IP, Chrome and type the following URL:	000000
4. Save the file in website Physical path by name "Welcome.aspx".	
4. Save the file in website 'physical path by name "Welcome.aspx".  5. Open browser - IP, Chrome and type the following URL:  http://localhost/Aspproject/Welcome.aspx-	
4. Save the file in website physical path by name "Welcome.aspx".  5. Open browser - IP, Chrome and type the following URL:  http://localhost/Aspproject/Welcome.aspx-  * ASP.NET Server controls:-	000000
4. Save the file in website 'physical path by name "Welcome.aspx".  5. Open browser - IP, Chrome and type the following URL:  http://localhost/Aspproject/Welcome.aspx-	000000
4. Save the file in website Physical path by name "Welcome.aspx".  5. Open browser - IP, Chrome and type the following URL:  http://localhost/Aspfroject/Welcome.aspx-  * ASP.NET Server controls:-  A typical ASP.NET application may contain the following type  et controls:	000000
4. Save the file in website physical path by name "Welcome.aspx",  5. Open browsex - IP, Chrome and type the following URL:  http://localhost/Aspfroject/Welcome.aspx-  * ASP.NET Seaver controls:-  A typical ASP.NET application may contain the following type	000000
4. Save the file in website physical path by name "Welcome.aspx".  5. Open browser - IP. Chrome and type the following URL:  http://localhost/Aspproject/Welcome.aspx-  * ASP.NET Server controls:-  A typical ASP.NET application may contain the following type  of controls:	000000
4. Save the file in website Physical path by name "Welcome.aspx".  5. Open browsex - IP, Chrome and type the following URL: http://localhost/Aspfroject/Welcome.aspx-  * ASP.NET Servex controls:-  A typical Asp.NET application may contain the following type of controls:  1. HTML Control  2. ASP.NET Servex controls	0000000000000
4. Save the file in website Physical path by name "Welcome.aspx".  5. Open browsex - IP, Chrome and type the following URL: http://localhost/Aspfroject/Welcome.aspx-  * ASP.NET Servex controls:-  A typical Asp.NET application may contain the following type of controls:  1. HTML Control  2. ASP.NET Servex controls	0000000000000
4. Save the file in website Physical path by name "welcome.aspx".  5. Open browser - IP. Chrome and type the following URL: http://localhost/Aspproject/welcome.aspx-  * ASP.NET Server controls:-  A typical Asp.NET application may contain the following type  "f controls:  1. HTML control  2. Asp.NET Server controls  3. Web user controls.  The Asp.NET Server side controls are dividexived from	0000000000000
4. Save the file in website Physical path by name "Welcome.aspx".  5. Open browsex - IP, Chrome and type the following URL: http://localhost/Aspfroject/Welcome.aspx-  * ASP.NET Servex controls:-  A typical Asp.NET application may contain the following type of controls:  1. HTML control  2. ASP.NET Servex controls	00000000000000

```
A Creating ASP. NET Sexvex control:
   1. All sexuer controls in a webform must be placed in the "form"
    tag.
\bigcirc
   2. Every server control must have following attributes:
\bigcirc
       2. Runat
0
  3. Server control will have a tag prefix "and "tagname" with attri-
     -butes.
\bigcirc
\bigcirc
  Syntax:
   ¿asp. Texbox. id = "txtName". runat = "sexuer">
    </asp: Tex+Box>
    Tag Structure:
    < Tagprefix : TagName attributes >
    Magfrefix: Tag Name >
OA A webform can have multiple forms
I we can end server control with 1> if there are not.
     chain control.
  Ex.: < 1. @ page Language = "C#"1.>
\bigcirc
      < ! DOCTYPE html>
\bigcirc
      < html>
\bigcirc
      < head > </head>
\bigcirc
      Lbody>
      <dIV>
      < form id = "frmwelcome " runat = "server">
Ô
```

W.

HTML CONTROL: 0. <input ·type="text"> < 6 < 5 < 6 < 7 ASP control:

 $\bigcirc$ 

0

 $\bigcirc$ 

 $\bigcirc$ 

Casp: TextBox .id = "txtBo" txtName"

rumat = "sexuer" /> <6r> <asp: button · id = "bth Submit" text = "Submit" · runat = "server" /> C/form> Woody> Udiv> </ body> 2/html>  $\bigcirc$ \* / sender is a object , GET /post request : plage Ispost Back 161 Text of label.  $\bigcirc$  $\bigcirc$ \* Page events:  $\bigcirc$ A typical ASP. NET Page comprises of several events that  $\bigcirc$ specify the actions to be performed in various situations. 0 ( ]whowever the default event for page is "page-Load" ( . \* Request types: Every ASP. NET Page responds to two types of request: a) GET 0 b) POST  $\bigcirc$ The "get" request controls the page actions whenever client ()requests the page for the first time from server. 0 The "post request controls the page actions whenever client  $\bigcirc$ post data to server.  $\bigcirc$ You can identify the request type of a page by  $\bigcirc$ using the property "page. Is post Back"  $\bigcirc$  $\bigcirc$ 

 $\bigcirc$ 

```
12
              A writing events for page:
                                        It you are using inline documentation then the events
 \bigcirc
               of a page must be written in the head section by using
\bigcirc
              the tag(script)
 \bigcirc
               Program: Writing events.
              < % @ page Language = "C#" %>
              <! DOCTYPE html>
(
               < html>
\hat{\phantom{a}}
                <head>
               < script runat = "server">
                  Protected void Page_Load (Object sender, Event Args e)
()
\bigcirc
\bigcirc
                        it (! Page. Is PostBack)
IbiTitale. Text = "welcome to Est ASP. NET";
(\cdot)
                     else
                                IbiTitle . Text = " Page Posted on : " + DateTime . Now . ToString();
\bigcirc
\bigcirc
\bigcirc
                2/script>

<
               < body>
                 < form runat = "server" id = "frmDemo">
С,
                 <asp: Label id = "IbITitle" runat = "sexvex"/>
\bigcirc
                 <br/>

\bigcirc
                 Z asp; Button id = "btnSubmit" - runat = "server" text =
(
                 "Submit"/>
C
```

</form>

2/6024>

2/htm>

```
A Developing the wet Applications using Visual Studio.
* N
* database files - most or -8 of
* App start: Collection of servetral classes. when a program starts,
   it will automatically start.
* Content: Contains non dynamic files. Ex images, CSS-style sheets
* models: Class responsible for communication with dB
  Script: Dynamic files like Is,
 * Account: Templater files
 * Global asax: grobal application class file. If we declare
   any value in this, we can access it from any location
   It contains global declarations.
* web. config -
  It contains global configurations.
     < globalization culture = "en-In"/>
  * Adding pages:
     Creating pages at run time.
    When We use internal server - URI comes
                                             Characters:
          it on IIS
                        : ropen vs
                                       am
      Sol" Exp: Project name Right wick - properties -
                                                                \bigcirc
       web-cate - servers select local IIs and them
       look for URL - ADD [create Nintual directory
                                                                 \odot
                                                                 \bigcirc
       Click ox . save and open IIs and goto sites -
       Default site - A your website is there
```

- A Creating ASP. NET applications using visual studio.
- Visual studio « is an IDE (Integrated devel en v) for dev-
- eloping. NET applications. However from the latest version
  - ASP. NET is an open source and can be used with any one of the following development tools
  - 1. Wiwet ASPNET Template
  - 2. ASP. NET Intellisense Generator
  - 3. Microsoft visual studio
  - 4. Microsoft visual web developer express
  - 5 Goode Grear Delphi C# is derived from delphi, c#
  - 6 Macromedia Homesite
  - 7. Microsoft expression web
  - 8. Morosoft sharepoint designer
  - 9. Monodevelop

 $\subset$ 

 $\bigcirc$ 

C

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

C

С.

 $\overline{C}$ 

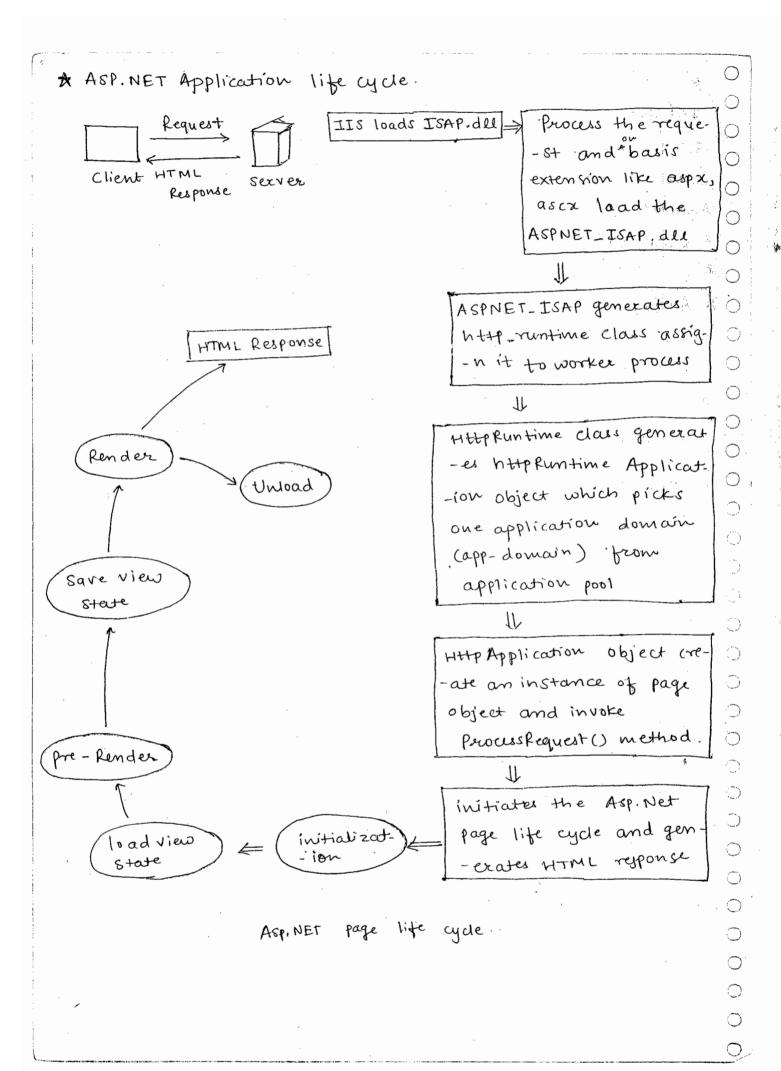
- O 10. Sharp develop
  - 11. Eiffel for ASP. NET
  - 12. Adobe Dreamweaver
  - 13. Stadium.
  - 14. Telepik.
  - A creating a new web application. &
    - 1. Open VS 2013. Run + demvnenv
  - 2. goto file menn > new project
    - 3. Select visual C# choose of web category Select the template of Asp. NET Web Application
  - 4. Specity name and location for application
  - 5. Wick OK.
  - 6. IDE prompts to select you to select template
  - 9. Select "Webforms"
  - 1. Select Checkbox for "webforms" as references

	the state of the s	
4. Cuck ok	The second of th	$\subset$
* File system:		Ċ
	cation file system &	. C
		C
المام معالما	NET 4.5 Application comprises of the following	· C
file and 1		
In tile/folder	Description	. (
1. Properties	Contains assembly info.	C
2. References	Contains collection of namespaces or asseni-	· (]
	-blies (libraries) med in application.	. C
3. Account.	Contains template files that are used to	.0
	create and manage accounts. (login, Register, etc.	<u></u> رو
4. App-Data		
	Contains local database files. (.mdf, .sdf)	. ()
- A 0:		
5. App-Starct	Contains collection of classes that are inte-	7.5
	-nded to run on application start	·
6. Content	contains all non-dynamic files (images, css)	0
7. Fouts	Contains all fonts installed for the applica-	. ()
•	-tion	<i>.</i>
8. Model	Constains a collections at classes that are	.0 .0
,	Contains a collections of classes that are suppossible for interacting with database.	 O
a Comint		0
a. Script	Contains all dynamic files like Is, I query	$\bigcirc$
10. Global.asax	contains global declarations that are acces-	$\circ$
	- ssable from any page in website.	0
and Court	Contains the configuration settings that	0
1- Web. Config	contains the whaviour of application.	0
	control the behaviour of affine	

<asp: button style = "position: absolute "/>

A Better way of als organizing into is using tables. We can use dir but for we have to use dir with tables.

Open Right click on project name and go to second last option and go to bin you will get all del fires.



Page Stage

 $\bigcirc$ 

 $\bigcirc$ 

Description

1. Initialization

In this stage the vontrols are created and are assigned with unique ID's

2. Load view State

In this stage the values of controls are saved to provide on postBack.

3. fre-fender

The control events are fired up and various actions are performed

4. Save view

The results are computed and are saved in a view state.

5. Render

The Html & response is generated for the client request, and the response is send to client

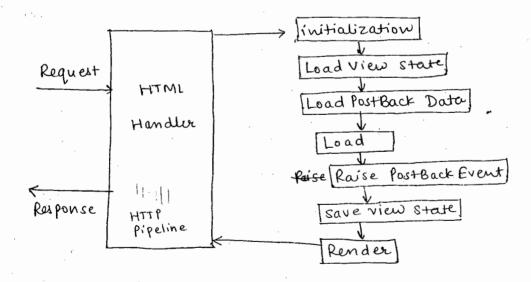
6. Unload

 $\bigcirc$ 

 $\bigcirc$ 

It unloads the page and performs cleanup. ie all traces of page are removed from server.

#### A Asp. Net high tevel design



#### A page events;

There are four Stages in page events.

- 1) init
- 2) Load
- 3) Rendering
- 4) Unload.

of A Page Events:

Every tiptyfical ASP. NET lage comprises of several en events classified into four categories

- 1. Initialization
- 2. Load
- 3. Renducing
- 4. Unload

State	event	viewstate
init	pre init int init complete	
Load	Preload  load  Load complete  Validation  Control events	Avaitable_
Rendexing	pre Render  Pre Rendering  complete  Save state  complete	
Unload	Render	

\* How to write page events:

- 1. Add a new web form" by name "Demo.aspx".
- 2. In solution explorer select "demo. aspx. cs" file
- 3-Add the following events in page class.
- 40 Protected void Page\_ Init (object sender, Event Args e)

 $\bigcirc$ 

 $\bigcirc$ 

E

```
Response. Write ("Controls created: "+ "<br>");
                                                                          (16)
\bigcirc
?
\subset
      Protected void Page-Load (object sender, EventArgs e)
      Response. write ("fage successfully ... loaded");
\overline{\phantom{a}}
   A Color: 8ystem. Drawing,
\subseteq
       Properties = Statically - from properties.
<u>_</u>.
                    Runtime - from coding
\bigcirc
   * ASP. NET server side controls :
     ASP. NET Provides a heap of controls that enables the UI
\mathbb{C}
.
    to make more interactive and responsive.
           All server controls in ASP. NET are defined under the
\bigcirc
\bigcirc
    library " System. Web. UI. Web controls "
\bigcirc
   1. Label: A label control is wed to display titles and caption
\bigcirc
   -ns that are not editable manually during the run-time.
\bigcirc
    Properties:
                  UI (1
                   2) Runat
\bigcirc
                   3) Text
4) forecolor
                    5) Backcolor
                    6) Fout.
C
    Syntax:
      <ast: Label Bid = "IbITitle" runat = "Server" Text="Welcome
\bigcirc
      to ASP. NET " Forccolor = "white" · Backcolor = "Red" />
   Ex: Applying properties for label dynamically.
```

Protecte

using System. Drawing;

3

Protected vord Page-Load ( object sender, EventArgs e) &

161Msq. Forelolor = Color. white;

161Msq. Back Color = Color. Blue;

161Msq. Text = "Hello!";

A Buttons: Auto Event whrelf. = True then command: Writing one event which is available for several buttons.

Buttons in web forms are used to perform record actions, record navigation, and miscellenous actions.

 $\bigcirc$ 

 $\bigcirc$ 

0

ASP. NET Provides three types of button controls:

		V	
	Control	Description	properties
1 -	Button	It is an ordinary but- -on with text.	ID Runat Text
2.	LinkButton	It is similar to a Button but shows the text as	ID Rumat Text
z . <b>L</b> ive	·Image Button	a hyperlink  It is similar to other  button controls but  contains an image inst-	ID * Runat ImageUrl
		-ead of text.	

#### A Button Events:

A 600.		
1. Click	It specifies the actions to be performed when	
	button is dicked.	
2. Command	It identifies a specific button lick from a group of buttons. It requires a "command Name"	

#### Syntax:

 $\bigcirc$ 

 $(\dot{x}_{i},\dot{x}_{i})$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

<asp: Button id = "btn Ordinary" runat = "server"

text = "Sub mit" />

lasp: & Link Button id = "btn Link". runat = "Server" text= text = "Sign Out" >/>

<asp: Image Button · id = "btnImage" runat = "sexvex".

\* Image Un = " ~ / Images / about . jpg" />
Hild

Ex. Using command Event for buttons:

I Add a new web form by name "Demo. aspx".

2. Demo aspx (design)

[ IbITiHe]

. 3	·
- 1	1:12001
Į	insect

Update

Delete

Control	properties.	
1 label 1	id = 161title Text = ""	
2. Button 1	id="6thInsext"  Text="Insect"  Command Name:=	Insect
3. Button 2	id = btn Update Text = Update Command Name = L	)pdate.
4. Button 4	id = btn Delete Text = Delete	

Command Name = Delete

```
Select any button control and open properties window (F4)
 4. goto events category and Double click on "command"
    event.
5. Change the event name with and code as shown below:
                                                             \bigcirc
   Protected void database-Command Cobject sender,
                             Command Event Args e)
    £
       Switch (e. command Name)
        case "Insect": "bititle. Text = " feword Insected";
                       break;
       Case "Update": [bIT itte Text = " Reword Updated";
                       break;
       couse . "Delete": IbiTitle Text = "Record Deleted";
                      break;
       3
   3
6. Go to Aspx "Demo Aspx" Design
   Select "Button I" (Insect) and open properties
   Goto Events category and set command =
      Database - Command
9. Repeat the same for all other buttons.
```

O A How do we remove the underline for link button? Style = "text-decorateon: hone". ○ → Vsing style. <a sp: Link Button id = "btu Link" rumat = "sexuez" text = "sign Out". Style = "text\_decoration=none"/> \* Sovemap Path() Ly less I wirent Ctheir current path <u>C</u>.  $\bigcirc$ A Virtual Path and Physical path: Virtual path is the path generated by webserver in order to  $\bigcirc$ acress the resources from a website. Ex. http://localhost/webrite/page.name aspx (Every Website is hosted on webserver and the file for web. ( - site are stored in its physical path. CEx. D: \ Website Folder.  $\bigcirc$ But you can track the physical path of any website  $\bigcirc$ by using the method. "Server. Mapfath ()". C. CCharacter Description C(Tild **1**. Returns path upto the website root  $\overline{C}$ directory 2. (dot) Returns path upto the current directory  $\bigcirc$ Returns path one level back to the 3 current directory.  $\bigcirc$ Syntax: Server. Map Poth ("~"); or Server. Map Poth (". .");

 $\bigcirc$ 

Ex. Image Button I. I.	mage Url = "~/ Images / about.jp	ر" <del>ب</del>	t in the	
* TextBox control:				
All textBox Properti	es we cannot you because	some	brow	$\circ$
- 100 to 0110	nort them			
C	e not visible but they are a	vailab 7	e, . ·	$\bigcirc$
some proposites we	2 (()			.0
to we	to the sale Angele	which	allows	$\bigcirc$
=> TexBox is the bas	ic input control in webforms			Ö
the UI to input,	read, and edit the values d	wing	runti-	
_me.				$\bigcirc$
				$\bigcirc$
= Propertes: 1 ID			*	$\bigcirc$
2 Runat		4		$\bigcirc$
3. Text 2. MaxLen	ath		. :	$\bigcirc$
5 Readon			*	$\bigcirc$
· Textmod	4			0
CATTIO	- Single Line			$\odot$
	- Multiline	¥		$\bigcirc$
	- Date			$\odot$
	- DateTimeLocal		· • •	$\bigcirc$
	- Mouth			$\bigcirc$
•	- Year			$\bigcirc$
	- Week			$\bigcirc$
•	- VEL		ă.	$\bigcirc$
.*	- Range			$\hat{y}$
	- Number	•		0
	- Color			0
	- Phone			
	- File			
7- A 7. PlaceHolde	r.			
8 Pattern				0
g. Focus ()	+ method			
				اس

```
(A)
   Syntax:
  1) Password => < asp; TextBox id = "tx+Password". Prunat= "server"
                Text-Mode = "Password"./>
(
  2) Date of Birth &
    <asp: TextBox id = " +x+Dob" runat = "server" TextMode = "Date"/>
( 3
   Event: Text Changed = finishing typing whater what should
                          happen.
    Button-cicles → pages are posted to server - « Note.
     For All controls except Buttons you set "AutoPostBack=True"
\bigcirc
      then only the event will fireup otherwise not.
C
     To button-click the by default AutoPostBack is set to
\bigcirc
"true".
\subset
     AutoPos+Back = To convert the text. to Upper cose - that is
<u>(</u>`.
       to fire up the text changed Event.
\bigcirc
\mathbb{C}
    To Do this + go to the Textchanged Event.
\bigcirc
  * Event:
\bigcirc
   Text Changed: The Text Changed event for textbox indi-
\bigcirc
     cates the actions to be performed when you finished
\bigcirc
     typing the text and loose focus forom the control.
· Note - The text changed event will not wireup untill or
    unless you set "autofortback to True" for TextBox Control.
\mathbb{C}
\bigcirc
   Ex.
Odde Add a new webform "Register. aspx".
   2. Register. aspx (Design)
```

Ewer Name (Block Letter) \_\_\_\_\_ - id = +xtName

Password \_\_\_\_\_ - id = +xtPassword

B

C:

3. Double click on "txtName" textBox and add the following code. Protected void tx+Name\_Tex+Changed (object sender, EventArgs e) String name = txtName. Text; txtName. Text = name. To Upper(). Groto Design and Open txtName Properties and set Auto PostBack = True for textbox. A Type of redirection in AGP. NET I. Response redirect - Server. Transfer() 3. Cross page PostBack 4. Server. Execute () 5. Hyperlink. Redirections in ASP. Net -Redirection is the process of 1 navigating from one page to ano-- ther page or any to any named location within the same page. Asp. Net provides the following redirection mechanisms Response redirect () Server. Fransfer () € Server . Execute() cross page PostBack Hyperlink. Response - Redirectly Vs. Server. Transfer. () Feature +. I Slow and that uses round 1. fast and doesn't , Accessibilrequire round trip -ity frip 2. Secured as it will not 2. Not secured, it returns the 2. Secweity return the URL of target URL of taxget page in add-- rus bar page.

_	
	3. Con access the pages 3 Com access pages only 3. page Access-
0	within Application or within application -ibility
$\bigcirc$	from any another appli-
Õ	- cation.
	4. Allows you to Bookmark 4. Allows you to bookmark 4. Bookmark
$\bigcirc$	any roundom page while only the first page
0	accersing in sequential
$\bigcirc$	ordez
$\bigcirc$	
	Syntax: 1. for server transfer:
0	Server. Transfer ("welcome aspx");
$\bigcirc$	
$\bigcirc$	2. for response. Redirett:
$\bigcirc$	Response. Redirect ("http://localhost/website/page.html.");
$\bigcirc$	
	Ex ;
$\circ$	1) Add the following pages to your website.
	1. Login-aspx
<u> </u>	2. welcome.asp∝
0	3 Error. aspx
$\bigcirc$	
$\bigcirc$	2> Login aspx (Design);
$\bigcirc$	
$\bigcirc$	User Name:
	Password:
$\circ$	login
<u></u>	
	TextBox1 Id = txtName
(	Tex+Box 2 id = tx+paisword
$\bigcirc$	Text Mode = Password.
$\bigcirc$	
	3) Login. aspx. cs (Code)

// Login Button Click code

```
if (tx+Name. Text == "manager" && tx+Password. Text ==
                                        "nazeshit")
       Response. Redirect
     (" http://localhost/Naresh IT/home, html");
      . 3
       else
      Sexver. Transfer ( "Error. aspx");
      3
4) Welcome apx (Design)
    <hi> Login Success ... </hi>
 5) Error. aspx (Design)

Zhi> Invalid User Name / password · Z/hI>

A Server. Transfer Vs Server. Execute.
=) The method Server. Execute is similar to Server. Transfer in
   Syntax but functionally Sexver. Execute will execute the
   target page and render's its output in the same page.
Syntax: Sexvex. Execute ("Error, aspx");
* Cross Page PostBack Jumpmost
when I dick the button then the same page will come
   again is the coross page postBack.
-> Post Back is a mechanism where the current page containts
  are posted to server. You can design the postBack in such
  a way so that the auxient page contents are posted to
  any another page in the website. This is known as cross page
  postBack.
```

1) Add a new webform by name "Demo. aspx".
2) Add a button control to webform and set the text as postBack
3) Goto Button properties and set the following attribute.
O PostBackVr1 = ~/ Welcome.cupx.
Note: what happens when you click a button on Demo. aspre
page: It will post the p contents to welcome. Cupx.
A Hypexdink: It is a control, property.
A hyperlink is wickable text, picture or graphic that links to
any another document or a named location in the same de
-cument.  ASP.NET provides a hyperlink control that manages
navigation in website.
O * Proporties for hyperlink:
1) Id
2) Runat
C 3) Text
4) Imageuri
5) Navigate un
c) Target
* Syntax: casp: 8 Hyperlink id = "link!" numat = "sexver"
Text = "Goto C# Basics"-Navigate Und = "#Ckharp"
C target = "_blank"/>
Tritra Document links: It refers to a hyperlink that navi-
-gates to any named location within the same page
O How do we do that?
1) Name a location in your document.
<pre></pre> <pre> <pre></pre></pre>
C 2) lefer the named location using on hyperlink.

Lasp: Hyperlink id = "link" . rumat = "server" text = "ASP. NET" Navigate Und = "# asp"/> \* Interdocument links: A hyperlink allows to navigate, to read any document or to doubuload a file. It it is redirecting to any another document or URL then it is reflected as inter document link. Ex: I. Add a new web form by name "Home aspx". 2. Add following hyperlink controls to page. . 1. Casp: Hyperlink - ID = "Hyperlink I" runat = "sexuer"  $\bigcirc$ Navigate-Url = "~/Tutorial.aspx " Target = "\_blank"> Goto Tutorial. </asp: Hyper Link > < br/> 2. / Redirecting a website Lasp: HyperLink ID = "HyperLink2" runat= "server". Navigateurl = "http: 11 www, Nareshit.in">  $\bigcirc$ NaxeshIT Website </asp. Hyperlint> 2 bx/> <asp : Hyperlink ID = "Hyperlink3" runat = "server" NavigateUrl = "~/ Content / asp.pdf" > Read Asp Tutorial </asp; Hyperlink> <6~1> 4. <asp: Hyperlink ID = "Hyperlink4" runat = "server" NavigateVrl= "~ / Content / Adobe. exe "> Download Adobe reader </asp: Hyperlink>

Ò

0

 $\odot$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\subset$ 

()

 $\bigcirc$ 

O Ó

0

 $\bigcirc$ 

5. Zasp: Hyperlink ID = "Hyperlink 5" runat = "server"

Image Height = "100px" & Image Vrl = "~/Images/3.jpg"

Image Width = "100px" Navigate Vrl = "~/Images/3.jpg" >

</asp: Hyperlink >

\* File Upload Control:

The file upload control unables the VI to select a file trom your computer and to upload into sexueral system.

\* Properties and methods:

- 1) Hasfile : Returns "true" if file selected and returns
- 2) Save as: Saves the selected file in specified location.
- 3) file name: Returns the selected file name
- 4) Postedfile. Contemtlength: Returns the selected file size, to
- 5) & Postedfile. Content Type: Roturns the selected file nime type

○ 🚉 :

0

 $\bigcirc$ 

 $\bigcirc$ 

0

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

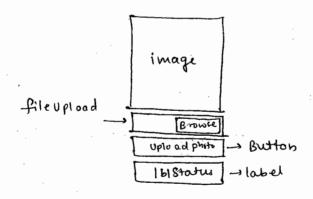
 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

- 1) Create a new folder in your website by name "Images!"
- 2) Add an new webform by name "Upload.aspx".
- 3. Wload aspx (Design)



Source code:

// inter import namespace Using system Drawing;

```
// Upload Button Click code
Protected void Button1_Click (Object sender, Eventargs, e)
  it ( File Upload 1, Has File)
    String file Type = System . Io. Path . Get Extension
       ( File Upload 1 . file Name);
     it (fileType! = "jpg" && fileType! = "png" k&
        file Type ! = ".gif" )
    161 Status. Fore Color = Color Red.
    Ibl Status. Text = "You can upload only Images"
    else
  int file size = File Uplo, ad I. Posted file. Content Length;
      it (file Size > 1048576)
     161Status. ForeColor = Color. Red:
     Ibistatus. Text = "You can lipload only IMB";
   else
   File U pload 1. Save As ( Server Map Path ("~/ Images /") +
   File Upload 1 File Name);
  161 Status. Fore Color = Color. Gren:
  161 Status. Text = "File Uploaded Successfully";
                                                                 \bigcirc
Image 1. ImageVrl = "~/ Images/" + File Upload 1.
                                                                 \bigcirc
                                                fileName;
  z
  els e
                                                                 \bigcirc
```

Q/

```
23)
```

1618tatus. Forecolor = Color. Red; 1618tatus. Text = "Please Select a file"; 3

C 08/05

 $\bigcirc$ 

9

A Add Rotator

The add rotator control is used to display advertisements in a webform and change the advertisements on every postback.

The advertisements for add rotator comes from an XML file which comprises of the following elements.

Element

Description

1. < Advertisements > It specifies a collection of advertisements.

2. ad Lad>

It represents an individual add in a collection

of advertisements.

3. < Image Vrl>

It specifies the name and path of image to be

displayed as advertisement.

5-< NavigateVrl>

It indicates the virtual path for redirection

when an advertisement is clicked

0 6. < AlternateText>

Text to be displayed when image fails to load.

OT. < Impressions >

It specifies the priority of an advertisement.

8 < Keyword >

It describes the keyword that enables tiltering

of advertisements.

\* Syntax: Zasp: Adforator id = "ads" rumat = "server"

Advertisement file = "ads. xml" Keyword Filer = "Pepri"

height = "100" width = "400"/>

Ex

1. Right click on project name in solution explorer and add	$\odot$
new folder by name ads.	
2. Right click on Ads folder and select new add - new item.	0
3. goto visual CH contegory and select XML tile file . I	0
4. Name the file as ads. XML.	$\bigcirc$
5. Write the following code in ads XML file	0
6. < Advertise ments >	0
<ad></ad>	0
< Imageuri > pepsi-jpg	0
< Alternate Text > pepsi foods. Ltd = Alternate Text	$\bigcirc$
ENavigate Url> http://www.fepsifoods.co.in	
< Impressions > 40 Impressions	0
< Keyword > Pepsi < / Keyword >	$\bigcirc$
	0
< Ad $>$	)
	0
< ImageUM > Reliance. ~ Digitial. Jpg < / Image UM >	
2 Navigateurs > http://www. Reliance_Digital.com Navigateurs</td <td>.0</td>	.0
Empressions > 30 < Impressions >	$\bigcirc$
< Keyword > Reliance keyword	
[Note: ] Keyword -> pepsi or reliance if we give the keyword	0
filter the property then it will show the particulars add only.	$\bigcirc$
6. Add a new webform " Home. aspre"	0 0
	, ,

· ()	7. Drag and drop adfortator.	23
$\begin{array}{c} 0 \\ 0 \end{array}$	8. goto the properties of adrotator and set the following	.*
<u> </u>	Advertisement-file: Ads.xnl	
C	"Keyword Filter + ": Reliance	
$\bigcirc$		
. C	height : 100	
	$\widetilde{T}$	
	Note: Smarttag - In catender control it is the will Tooltip.	
C	* Calender Control:	
$\bigcirc$	The calender control provided a month view of calender th	حل
Ċ	enables the wer to select a date, week or month.	
10	Properties:	
/ C	1) ID	
0	2) Rumat	
$\circ$	3) Day Name Format = thort or full	
	4) first Day -ofweek	
	5) Showtitle	
$\circ$	c) title format , Month, Month Year	
	1) Selector Mode: Day, week, Dayweek Month	
$\bigcirc$	8) Select Week Text:	٠.
Ċ	9) Select Month Text	
	* Events:	
	@1) Selection Changed	
	2) DayRender	
	A Syntax: <asp: calender="" casp:="" id="Cal" selectionoed="" varnat="short"></asp:>	e =
$\mathbb{C}$	<asp. "thort"="" -="" calender="" sa=""></asp.>	
, C.	"Day". Day Name Format = "short"/>	قد
C	Cy sughte the weeks selection.	
	1. Add a new webform -> "Trip. aspar".	
: : C		-
jC		

```
2. Trip. aspx (Design)
                        局+ Tuagebuton
3. Trip. aspx: well.
  page-load() event code
    if ( page IepostBack)
      Calender 1. Vistble = falle:
& A Image Button - Click ()
      if (calender1. visible== true)
       Calender1. Visible = talle;
     elle
      if (calender! visible == falle)
       Calender 1. visible = true;
(5) Calender 1 - Wick().
     TextBox1. Text = Calender 1. Selected pate. To string ("D"):
Ex2: Enable calender to select a week or a month-or day
 1. Groto Calender property and set selection Mode = Dayweek
2. Write following code in calender, sclection changed
  event.
3. Colender 1- click ()
```

```
{ Textbox 1. Text = Calender! Selected Date To string ("Dr)
\bigcirc
\bigcirc
      foreach ( Datetime: d in calender 1. Selected Date)
        label . Text = + = d. To string ("d") + "L";
  Ex3' Design calender so that user can't select other
   month play and weekend.
   1. goto calender properties and set Firs+ Day of week
  2. goto 'calender event and double click on DayRen-
\overline{C}
   -der event and write the following codes.
\subset:
    Calender 1 - Datykender ()
(:
      Eifle Day. Isother Month 11 C. Day. Is weekend)
        e. Day. Isselectuble = falle;
         if (e. Day. Is weekend)
        E e. Cell. Backeolor = System. Drawing. Color. Red;
          e. Cell. Forccolor = System. Drawing. Color. White;
          e. (ell . Text = "N/A".
          e. (ell. ToolTipe = "Booked";
\bigcirc
   Exit: Brable calender to block specific Date write the
      following code on Day-Render event
\overline{C}
       if (e. Day. Date. Day == 17)
         Ee. cell. Text = "Holiday";
    Note:
```

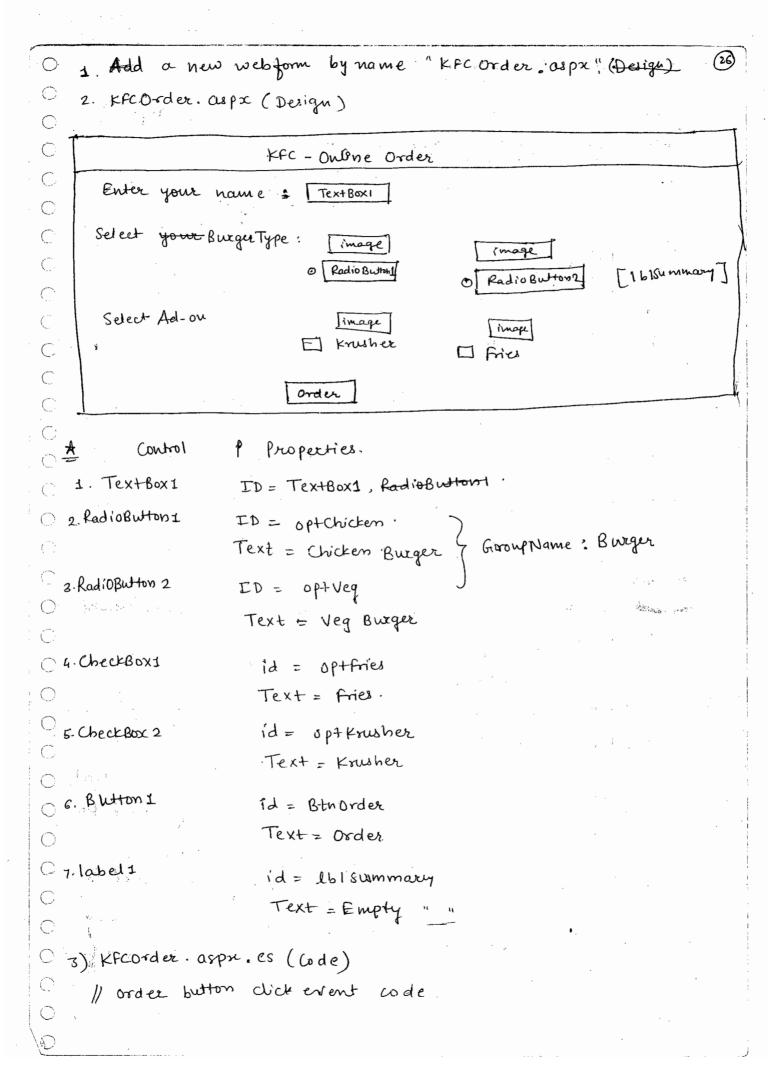
Note: Mutual Exclusion (Mult Threading)	9
-> Radio Button: This control enables the week to select	
maly and applian trans the group of choices.	
only one option from the group of choices.	
It uses the mechanism of multithreading called	
"Muter". [Mutual Exclusion]	0
Properties: Id, Text, Runat, Checked, groupName	
Note: In order to group the radio Buttons. into one category set group Name- and it should be same for all	$\circ$
set group Name- and it should be same for all	0 :
radioButtons.	0 '
	$\bigcirc$
Syntax: <asp. id="OPT" radiobutton="" runat='server"&lt;/td'><td><math>\bigcirc</math></td></asp.>	$\bigcirc$
Text="malpeople", a GroupName = "Grender"/>	$\bigcirc$
<al> <li>RadioButton Id= "opt 2" runat = "server"</li> </al>	
Text= "Female" group Name = "Gender" />	
Event: Checkedchanged	1.1
Note: To enable Checked Changed event you have to rest	$\bigcirc$
AutoPostBack to "True".	0.
* CheckBox: It is similar to RadioButton in properties	$\bigcirc$
	$\bigcirc$
and event but enables the user to select multiple	· :)
option at a time from a group of choices.	$\bigcirc$
Properties: Id, runat, Text, checked	$\frac{1}{2}$
Event: checked Changed.	$\bigcirc$
	$\bigcirc$
Ex licina a line attoms and Check Roxes	$\bigcirc$
Ex Using Radio Buttons and CheckBoxes	$\bigcirc$
	$\bigcirc$
	$\bigcirc$

Ÿ

:

¥

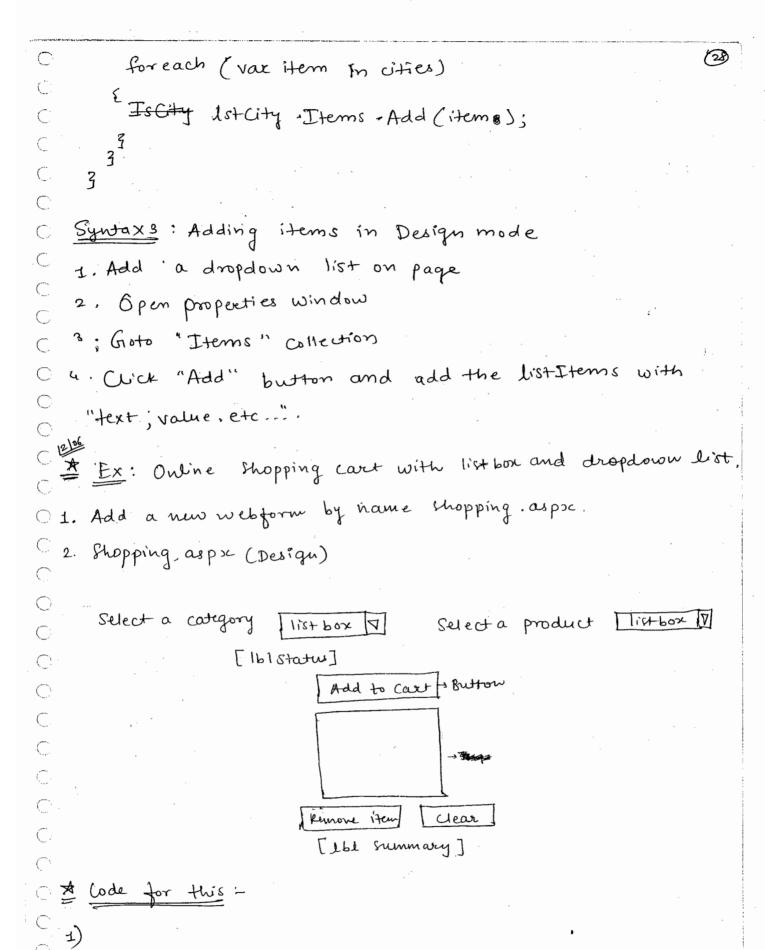
 $\bigcirc$ 



```
int boost, a cost, total:
   Protested void Button 1_ dick (object Sender, Event-Args e)
    it ( opt-Chicken . Checked)
        bcos+ = 150;
     it ( OPTVeg. Checked)
         600st = 100;
     if ( oft fries . Checked)
       a cost = 40;
     1 bust = bost + a cost;
     it (oftknuher. checked)
       acost = 60;
       bcost = bcost + a cost;
      total = bcost;
      ibisummary . Text = "Hello!" + TextBox1 . Text + "Lors"
      + " You have to pay :" + total. To String ("c");
 4. Goto Html Source of kecorder, aspsc and set culture
  List Controls: The list controls acce collection controls that
  enables the UI to maintain a collection of items so
 that user can select or manipulate the list.
         A list control resembles an "array list" which
   can store any type of value and allows accessing
                                                             \bigcirc
  by their index. Every item in a list control is of
  type "list item!" -> class Name
```

```
The following are AspiNet list controls:
   1. DropDownList
   2. ListBox
   3. Bulleted List
   4. RadioButton List
   5. CheckBox List
  * DropDownList: A dropdownlist provides collection of items
    that enable the user to select any one Hem & from
   list. All items in the list are of type "list item" and cont-
\bigcirc
   -ains the following properties &
   a) Text
   b) Value
    3) Enabled
   4) Selected.
\bigcirc
  * Members of dropdown list &
  Member
                         Description
                        Adds a new item to list
O 1. Item. Add ()
                        Removes the specified item from list.
  2. Item. Remove ()
                        Removes an item by its index number
  3. Item. Remove A+()
                         Removes all items from list.
O 4. Item. Clear ()
                         · Peturns boolean true it specified item
  5. Items. Contains ()
                          exists in list.
                          feturns the total wunt of items.
C. Items. count ()
                         ferwins the selected item value
○ 1. Selected Item. Value ()
                         feturns the selected item text-
8. Selected Item Text ()
                         Returns both value and text.
( 9. Selected Item()
                         Returns the index number of selected
C v. Selected Index ()
```

```
Selected Index Changed 1.
 Events =
Sywtax. &
 1) Adding items to dropdown list in html sowece:
  <asp: Dropdown List ID = " 1st Payment" runat = "server">
 L'asp: ListItem . Text = "Cash" Value = "1" >
 </asp: ListItem>
 Cosp: ListItem "Text = "Credit cord". value = "2" selected =
   "True" "enabled = "True">
 </asp: ListItem >
 Aasp: DropDownList>
Syntax2! Adding items dynamically during runtime using lode.
1. Groto Page Code (C#)
2. Create a new List in page class
& List<ListItem > cities = new List<ListItem > ()
  new ListItem of Text = "Select a vity", Value = " In"
  selected = true 3,
  new' List Item . { Text = "Chenna'" Value = "650004"
  Emabled = true, Selected = false 3
       List Item & Text = "Hyd", value = "500045" 3,
 new ListItem & "Text= "Mumbai", value = "400020" 3;
  33
 3. Write the following code in page load Event-
     Protected void page_ Load (Object sender, Eventarge e)
       if (! page . Ts Post Back)
```



Control	Properties	0_
1. Dropdown List 1	id = 1st Categories	
1 D-10 - 11-1	AutopostBack = True	
2. DropDown List 2.	id = le+products	$\circ$
3. ListBox1	id = lstCart	. 0
•	id = lst Cart Selection Mode = multiple.	. 0
4. Button 1	id = "btnAdd"	9
	Text = Note to cont	( )
s. Button 2	id = "btn Remove"	
	Text = "Remove item"	0
6. Button 3	id = "btn Clear"	0
~ \	Text = "Clear	0
7. Label 1	id = lbestatus	
	Text _ " "	
8. Label 2	id = 'lbl Summary	
	Text = " "	$\bigcirc$
* Shopping. alpx.		. 0
Write the tollow	oing code in page · Class partial class	0.
	Shopping	$\circ$
public partial	Class Shopping (	$\circ$
,		$\odot$
	Categories - new List < String > ()	$\circ$
List< string>	Categories = new List < String > ()	
"Select a	category", "Electronics", "shoel",	. 0
3;		0
List< List Item	> électronice à new List < List [tem>().	$\bigcirc$
. {		$\circ$
		$\mathcal{O}$

:

```
6
     New ListItem & Text="Mobile", value="6000"}
     New List I tem { Text : 2 " LG LED TV ", value = " 67000" }
      3;
\bigcirc
     List < List I tem > shoes = new List < List I tem > ()
\bigcirc
      3
\bigcirc
     new ListItem & Text = " Nike", value = "4500" 3.
\bigcirc
     New List Item { Text = " Lee Cooper", value = "8000" }
\bigcirc
\bigcirc
±//Write the following code on page-Load event.
      if (! page. Is postback)
     foreach ( String item in categories)
       1 st Categories. Items. Add (item);
  List cotegories selected index changed code.
     Switch (1st Categories. Selected Index)
\bigcirc
\bigcirc
     Case 0: 161 Status. Text= "Please select a category".
\bigcirc:
       1st Products . Items. Clear();
\bigcirc
       1st Products. Items. Add ("select a product");
              break;
\bigcirc
      Case 1: 1st Products. Items. Clear ();
0
Ćļ.
      foreach (vax item in electronics) , it simple list them
\bigcirc
                                                          use string at place
                                                            of var
\bigcirc
      letteroducts . Items . Add (item);
\bigcirc
       break;
\bigcirc
```

```
Case 2: 1st Products . Items. Clear ();
   foreach ( var item in shoes)
  1st Products. Items. Add (item);
    break;
 3
/ create a new method by name Get Bill.
   int : bill = 0;
   Private void GetBill ()
 for (int i = 0; i < let Caxt. Items. Count; it+)
  bill = bill + Convert To Int 32 ( let Cart. Items[i]. Value);
  3
 Iblsummary. Fext = "Total amount:" + bill. To String ("C");
 Ablstatus. Text = "Total no of items = "+ "1st court. Items.
  3
                                                    Count;
/ Add to cart Button click code:
 if (1st Cart. Items. Contains (1st Products. Selected Item))
  "Ibl Status. Text = "Item Exist";
   else
   1st Cart. Items. Add (lettroducts. Selected Item);
                                                                \bigcirc
    Get Bill();
              item button circle code
                                                                \bigcirc
```

```
let Coxt. Items. Remove (let Coxt. Selected Item)
        GetBill ();
    U clear button clickcode:
\bigcirc
      · Ist Cart - Items. (lear ();
      GetBill();
Radio Button List;
   It is a collection of radiobuttons that enables the user to
   select any of option from the list from a group of choices
   Its proporties and methods are similar to other list controls.
   like drop down list and List box.
\bigcirc
  Syntax: <asp: RadioButton List ID= "RadioButton List I:" runal = " see
   -ver" . AutoPost Back = "True">
   Casp: Listztem > Cashon delivery
    </ap : List Item >
    Casp: ListItem > Credit cord </asp: ListItem >

Clasp: RadioButton List1 >
\bigcirc
  * Panel: Panel is a container control that contains a group of
\bigcirc
   Asp or html controls so that you can hide or unhide the
   panels during rountime and emable the guer to view
   multiple pages information on single page.
  * properties:
   1. id
   2. runat
```

3. Visible = true or false

4. Backcolor.

```
Syntax:
  <asp: famel id = "pnez" remat = "server" >
        you can put control inside panel.
Ex:
 1. Add a new webform by name "payment. aspx"
2. "Payment. aspx" (Design)
                                                         Meike 1
     Select Payment Mode:
                              id = Radio Button List-1
    O Cash on delivery
      Credit card
    · Gift could
                                                id= PN cash
   Enter your mobile: [
   Address:
   Select your bank:
                                                 id = PN couch condit
  Enter your gift coud No: I
                                                id = pw Gift card
3. Payment. a. pn. cs (code)
 // Page-Load event code ;
     if (!page. Ispost Back)
      pul Cash. Visible = false;
      pril Credit (ard = Visible = false;
       Pri Gift Card. Visible = false;
     ž
 // Radio Button 1_ Selected Index Changed Event Code:
       (Set Auto Post Back = True)
```

```
\bigcirc
       Switch (RadioButton List I. Selected Index)
\bigcirc
\bigcirc
       case o: PN cash . Visible = true;
(
                pril Credit coxd. Visible = false;
(
                Pril Gift coxd. Virible = false;
                  break;
      Case 1: pnl cash. Visible = false;
(
                 PM Credit Card. Visible = true;
                PriGifteard Visible = falle;
\subset
                  break;
      *Case 2: pru Cash . Visible = false;
                 pnl Credit Card . Visible = false;
                 And Griff-Card. Visible = true;
                break;
```

A Checkbox List: - A checkbox list is similar to a listbox but it enables the user to select any multiple items. The condition for selected items is satisfied based on the checked property of checkbox.

All the methods and properties of checkbox are similar to the dropdown control.

Syntax:

 $\bigcirc$ 

 $\bigcirc$ 

C:

 $\overline{\phantom{a}}$ 

(

C.

· (\_.

- C

0

<asp: CheckBoxList id="1st" runat="server">

<asp: ListItem > Item 1 . </asp: ListItem >

Casp: ListItem > Item 2 </asp: ListItem >

CheckBoxList>

```
*1. Add a new webform by name "courses appx."
2. Courses. aspx (Design)
  Available Consider:
                                  selected Cowcies:
  II. : Net
                                   Unbound.
                         1
  II CRT
                        >> 2
  1 Java Core
  Courses you selected!
   [ Ibl Cowcies]
   total fee:
   [Iblfre]
3. Courses aspr. cs (Code)
 // Create a new method by name "getdetails"
      int fee = 0;
      String courses;
      · Private void · GretDetails ()
       for (int i=0; i < let Selected Courses. Items, Count; i++)
                                                                    0
       fee = fee + Convert. To Int 32 (1st Selected Courses.
                                             Items[i]. Value);
             Courses = Couses + lst Selected Courses Items [i].
                               Text + "<b >>";
      3
     161 Fee. Text = fee - Tostoing ("c");
     Mol Courses. Text = courses;
// Adding selected items. (>) button click code:
     for (int i=0; i < ls+Avail60 weses. Items-Count; i++)
      if ( 1st Avail Courses, Items. Contains [i] . Selected
```

```
\bigcirc
     let Selected Courses. Items, Contains (Lit Avail 60 weses. Items [i]) 3
                                                            == false)
0
     S
      1st Selected Courses. Items. Add ( 1st Avail Courses. Items[1]).
C
\bigcirc
        Get Details ();
   // Adding all items (>>) Button click code:
      for (.int i=0; i< .ls+Avail Coweses. Items. Count; i++)
\bigcirc
\bigcirc
       1st Selected Courses. Items. Add (1st Avail Courses. Items [i]);
\bigcirc
\bigcirc
      Get Details ();
\bigcirc
       www. gifanimentions.com
     From properties we can change the display form from
    text to hyperlinks.
\bigcirc
   * Bulleted list: It is also a list control similar to other
(
   list controls in ASP. NET but it allows the www. UI to display
   items in the form of bulleted or numbered list.
().
    Its properties and methods are similar to other list
\bigcirc
     controls you can dynamically add and manipulate the
\bigcirc
     list.
   1) Proporties -
     TD (F
     2) Rumat
     3) Bulletstyle
                    - numbered
                       Aphabets
                     - Custom Image, etc
   4) Displaymode - text
                    - hyperlilade
\bigcirc
                      link Button
```

5) Bullet-Image Vol -> path and name of image.	" (A)	. 0
Syntax: As.		( ) ()
	in the second	. 0
<asp; 1"="" 11.1.<="" bulleted="" id='."' list="" list.="" lst="" n="" runat="server" td=""><td>. : :</td><td><math>\circ</math></td></asp;>	. : :	$\circ$
Bulletedlist Bulletstyle = "Numbered" Displaymode	= "Text"	, , , ,
<asp: 1"="" listitem="" text="Item "></asp:>		
		0
		) )
Ex: Bulleted List with display Mode as Text.		
1) Add a new webform "Comments.aspx".		$\bigcirc$
2) Comments.aspx (Design)		7.Q
Your email. : [ ] ++x+email		0
your Comments:		
-> +x+ comment		
· Postad Comment		0
· Bulleted List (Comments) - 1st comments.		0
Ar Codo . C		
* <u>Code</u> : Comments.aspx.as (Code);		$\cap$
// postComment Button Wick Code	*	Ó
string email = ExtEmail. Text;		$\bigcirc$
string comment = txt comment. Text;	,	0
lit Comments. Theme All (C		0
let Comments. Items. Add (Comment + " - posted Bi email + "On:" + D toT	1 `` +	
email + "On: " + DateTime. Now. Tostring ("D"));		0
tx+Email-Text="";		0
txtcomment, Text=" ".		$\circ$
<b>.</b>		~

.

```
ID = Inage2
 4) image 2
 5) Holabel I
                   id = lblstatus
                      Text=" "
* code: Movie.aspx.cs (code)
  // Create the following list in page class.
   // partial class -
   List < string > movies = hew List < string >()
        E "select a movie",
          "San Andreas",
           'Jurrasic World".
 List < List I tem > Jurrasic Timings = new · List < List I tem > ()
   ξ.
   new ListItem { Text="10:20 AM", value = "10:20 AM" 3
 new List Item { Text = " D2:45 pm", value = 'b2:45 pm"}.
 List < List Item > San Timings = new List < List Item > ()
 new List-Item { Text= "11:00 Am", value = "11:00' Am"},
 hew list Item { Text = "02:30 pm" value = "02:30 pm"3,
 new List Item { Text = "10:00 PM" value = "10:00 PM"},
   3',
 // Page_Load event Rode.
        it ( 1. page : Is Pos + Back)
        foreach (string item in movies)
         ls+Movies. Items. Add (item);
```

```
3
\bigcirc
                                                                              (34)
             .3
\bigcirc
    // Dropdow List selected Index changed code:
\bigcirc
()
        Switch ( Istmovies . Selected Index)
Case 0: Images. Images/ = "~/ Dmages/ inox. jpg";
                  break;
\bigcirc
       case 1: Image 1. & Image Vol = " ~ / Images / Sam, jpg";
\bigcirc
             foréach (vax item in sanTinings)
           1s + Timings . Items . Add (item);
\bigcirc
\bigcirc
             break;
       Case 2. 1st Timings. Items. Cleare);
\bigcirc
            Theaget. Image Url = " ~/ Images / jurascic. jpg";
                                     jurassic Timings)
       for each (var item in
        1st Timings. Items. Add (item);
\bigcirc
break;
\bigcirc
        z
\bigcirc
   // Bullet List 1 - Chick event code;
       protected void 1st Timings_ click (object sender, Bulleted List Event
0
                                                       Args e)
\bigcirc
\bigcirc
        { switch (e. Index)
\bigcirc
       Case 0 : Image 2. Imagest = "~/ Images/1.png";
\bigcirc
              Mel Status · Forecolor = Color · Green;
           Montatus. Text = "200 seats Available";
```

```
break;
    Case 1: Image 2. Image UH = "~/ Images/2.png";
           Molstatus. Forcholor = Color. Yellow;
          lb1 Status . Text = "100 Seats available - fast filling";
           break;
   care 2: Image 2. Image Vol= "~/Images /3. png";
         lblstatus.fore Color = Color. Red;
       lblistatur. Text = "Sold out";
        break;
  3
Managing multiple views in web Applications:
  you can acces multiple pages information through a single
  page. So that it will reduce the number of request and
 improved the performance of application.
       The following methods can be used to handle multi-
- ple views :-
    Frames - HTML
  2) i Frames - HTMLS
  3) Multiview
  4) Wizard
    fanel
 A Using frames of HTML.
  1) Add the following pages to your application.
   index : html
                         about aspr
```

contact. Ospr

footer. html

menu. aspx

home aspx

```
\bigcirc
   * Index. Hend source:
(
     Remove head and body in html page and write:
0
      < ! DOCTYPE . h +wu>.
C
      < h441>
     < frameset rows = "15%, 704, 15%">
      < frame src = " menu.aspn''</pre>
\bigcirc
                                                           はい
        name = "framehead" > </frame >
70%
        <frame src = "home.aspx".</pre>
\bigcirc
        name = "framebody" > </frame>
                                                           15%
\bigcirc
         frame src = "footex. html"
\bigcirc
         name = "framebody Footer "></frame>
\bigcirc
        <1 frameset>
\bigcirc
\bigcirc
     * </ html>
\bigcirc
    3. Footex, html source:
       < centre>
\bigcirc
    <di>> & copy Copyright 2015 2/div>
\bigcirc
        </centre>
\bigcirc
    4. menu. aspx (design)
\bigcirc
                             About us
                                               contact
\bigcirc
         Home
\bigcirc
    5. Control and properties:
                           property
       Control
\bigcirc
                         ImageVH = home, prg
    1. Hyperlink 1
                         NavigateUrl - home aspx
\bigcirc
                         . Target = frame Body
\bigcirc
                         ImageUM = about . prog
    2 Hyperlink 2
\bigcirc
                         Navigate Url = about aspx
()
                          Target = frameBody
\bigcirc
```

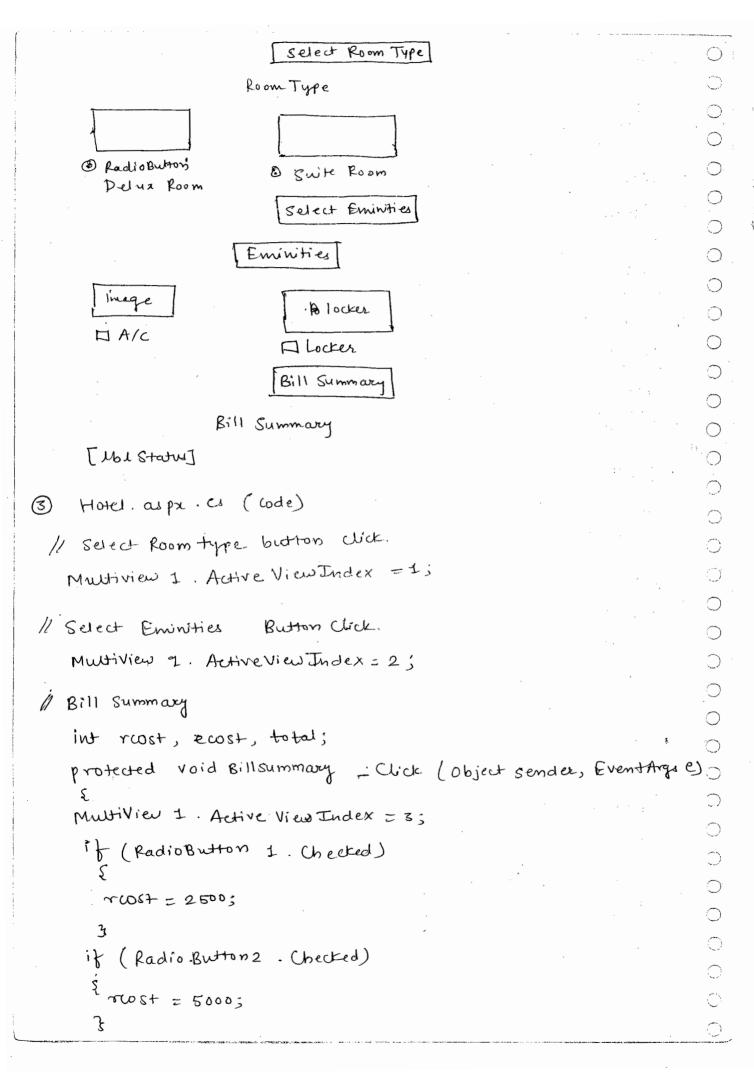
 $\bigcirc$ 

3)	Hyperlink 3	Imageur = Contact. prog	, , , , , C
	•	Navigateurs Contact aspr	, A
		Target = frameBody.	. 0
5	. Put any into	rmation in the following pag	
	-home as		
	- about a		
	- Contact.		
N	ote: Start with "In		
	- Right click o		lorer.
	- Select "set		
<u>=</u>	Using itrames of	UK with frames in html is they	avie 0
^	not supported for	several browsers, which are	compatible
,	with mobile device	ces. Hence, html 5 introduces	iframes
-}	that creates and	embaded frame inside the b	ody
		acces any page or Un1.	er George Stant
*		pages to application:	0
	- New Index		
	- Home Ar	pr	
	- About a	1 p.x	
	- Contact.	aspa	* · · · · · · · · · · · · · · · · · · ·

\* New Index. aspx (Design) take rows columns

F	Home	About	contact
		c frame	
		C) CopyRight 2015	

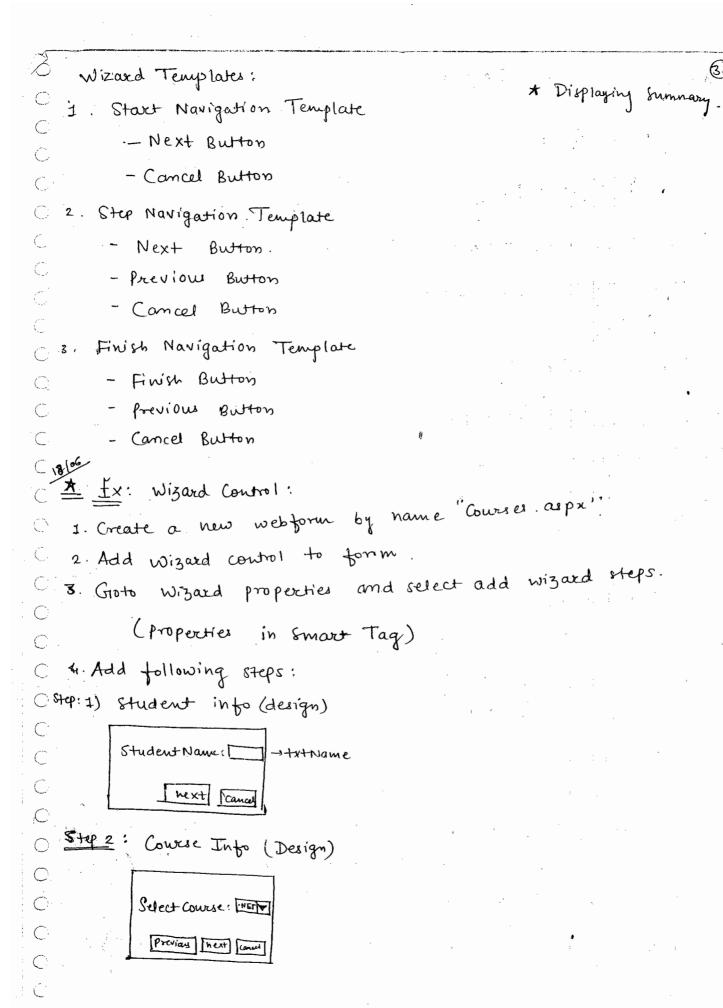
$\bigcirc$	3. To add i frame inan new Index aspr page.	36)
$\bigcirc$	Goto HTML Sowice and Add the following insecond row	
C		
(		
	<i .<="" frame="" src="Home.aspr" td=""><td></td></i>	
$\mathcal{C}$	name = "framébody" >	
<u> </u>		
$\tilde{C}$		
C	Sol 4. I-Morrison Oxposition for hyperlink.	
C .	4. Set the following properties for hyperdink.	
(_;	ImageVr1 = home prog	
	Navigate Url = home. aspn	:
$\subset$	Target = frameBody	
$\bigcirc$ \	5. Multivieur : A multivieur control is server side control,	
(	which is collection of panels and enables the user to	
(]:	switch between the panels during runtime.	
()		
( ,	Syntax:- <asp: <="" i'd="multiview1" multiview="" runat="server" td=""><td></td></asp:>	
<u> </u>		
C	Active View Index = "0">	
<u> </u>	<asp: .="" any="" content.<="" id="View1" runat="server" td="" view=""><td>_</td></asp:>	_
( ·		
(_		
(	Ex	
(	1. Add a new webform by name "Hotel, aspx",	
(_	2. Hotel-aspr (Design)	
$C_{\alpha}$	Hotel Registration form	
(:	Customer info Room Type   Select Eminities   Bill Summary	
C	Multiviews.	
C	Customer Jupo	
(	Customer Name	
	Check in Date	

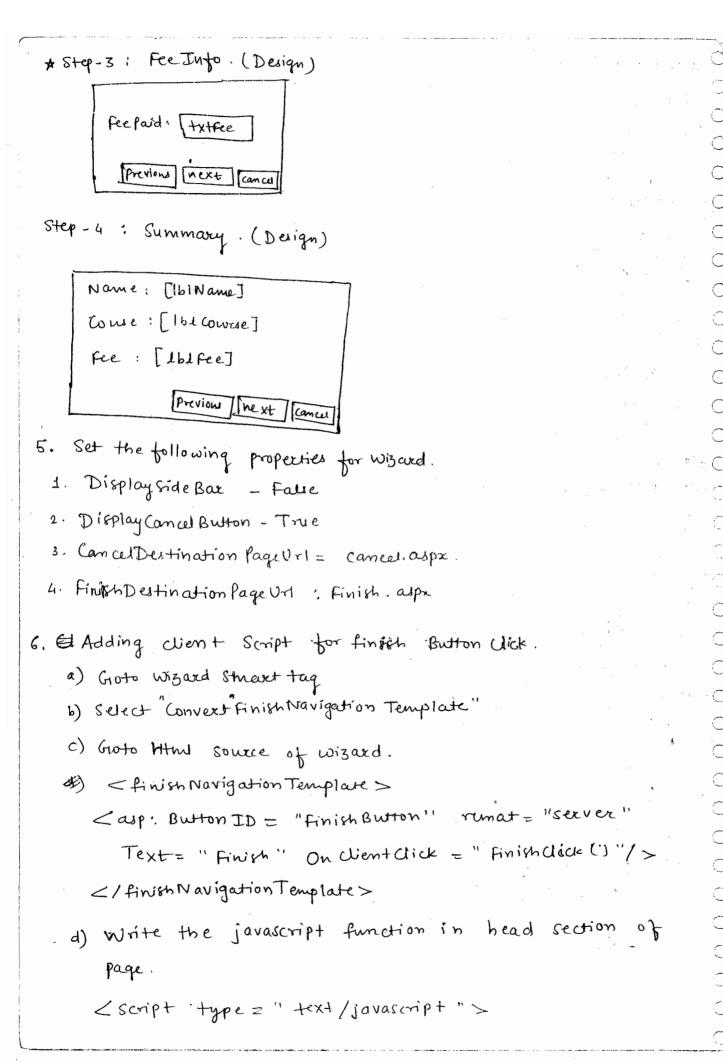


```
\bigcirc
        if (Check Box 1 . Checked)
      C
         'eus+ = 500;
        2 rost = rcost + e cost;
       if ( Check Box 2. checked)
C
        @ = "e COS+ = 1000's
\subset
             rost = rost + ecost;
\bigcirc
<u>(</u>.
         total = r cost;
\bigcirc
       IbiBill . Text = " Total Amount:" + total . Tostring ("C");
\bigcirc
      * 3
\bigcirc
   Note: 1. Set command name for all buttons in Navigation area.
\subset
       - Ciutomer
       -- Room
       - Eminities
\bigcirc
        - Bill :
    2. Open "command" event for Button and set as Navigation_
<u>(</u>..
C:
                                                               command.
    3- Inside Navigate_command write wde
(
         Switch (e. Command Name)
\overline{\phantom{a}}
   * Wizard control: alect()
```

- On Client With

```
* Wizard Control: A wizard is step by step quidance followed O
  by the user to accomplish any task . In Asp. NET wisard
  is like a multiview control that can display multiple pages
  information, from single page. It is a collection of wizard
  steps.
Syntax: <asp: Wizard id = "wizard 1" rounat = "server".
    HeaderText = "Registration form">
 < wizered Steps >
 <asp: Wizardstep. rumat = "server" . Title = "step-1">
  </asp: Wizard Step>
  </wi>
 </asp: Wizard>
Wizard properties:
I. ID
2. Runat
3. Header Text
4. Wizard Steps ( collection)
5. Display Cancel Button - True/falle
6. Concel Destination PageVrl
7. Finish Destination PageUrl
8. Display side Bax - True/false
* Wizard Events:
1. Active Steps Changed
2. Cancel Button Click
    Next Button Click
    Provious Button Click
5. Finish Button Click
6. SideBar ButtonClick
```





```
function Finish Click ()
\bigcirc
        alect (" wizard Completed ");
        2
C
     </script>
C
   7. Groto Wizard Event and double click on "Active Step Change d" event
\overline{\phantom{a}}
     Protected void Wigard 1 - Active Step Changed (Object sender,
Ċ.
                                                EventArgs e)
\bigcirc
     $
\bigcirc.
     Switch (Wigard 1. Active Step Index)
      Case D. Wigard 1 . Header Text = "Student Into";
\bigcirc
               break;
\bigcirc
      "Case 1: Wizard 1. Header Text = "Course Into";
\bigcirc
                break;
C
      (ase 2: Wigard 1. Header Text = " Fee Into";
\Box
(].
                 break;
     Case 3: Wizard 1. HeadText = "Student Summary",
\bigcirc
              lbename . Text = txtName. Text;
\bigcirc
            Iblicourse. Text = DropDown List 1. Selected Item. Text;
C
\bigcirc
            16lfee . Text = txtfee . Text;
                         break;
         3
```

A Validations: Unobtrusive Validations. - sues jamery
javery - uses Auto correct & Auto complete
white type it will validate

Validations in web Applications are required to ensure that contradictonary and unautherized data is not get stored into the elatabase.

Validations can be controlled in three different ways:

- 1) Went side (Uring Went side script)
- 2) Server side (Using server side Controls)
- 3) Remote (Using jquery and json)
- \* Validations in asp. net are unobtrusive Validations from the version 4.5. It uses Iquery and requires and requires jquery script manager for validations

Asp. Net provides the following validation controls.

- 1) Required field validator
- 2) Compare validator
- 3) Range Validator
- 4) Regular Expression Validator
- 5) Cutom Validator

3

The validations in ASP. NET requires anobtrustve Iquery script mapping, which is predefined for a template and requires manual configuration if it is an empty website.

 $\bigcirc$ 

protected void Page-Load (object-sender, Event-Argue)

{ page. Unobtrusive Validation Mode = Unobtrusive Vali-

- datioMode, None;

Note: The page Property "page. Is Valid" returns boolean Go true if page is valid and have no validation error.

The it returns take then it fires up the validation messages.

Validation: Required Field Validator: It is used to define mandatory fields in a form i.e, the field cannot be null when you submit the form data to server.

Properties

1. ID

()

 $\bigcirc$ 

 $\bigcirc$ 

0

- 2. Runat
- 3. Control to Validate
- 4. Error Message
- 5. Forecolor
- 6. Text

\* Syntax: < asp: Required Field Validator ID = "rfvI" rumat = "Server"

ControlToValidate = "tx+Name" Forecolor = "Red"/>

\* A compare Validator: - It is used to compare values in two different fields and also the specific datatype entered into the field.

## \* properties

- 1. ID
- 2. Rimat
- 3. Control To Validate
- 4. Control To compare
- 5 . Type
- 6 Operator
- 7. Error Message
- 8- Forecolor.

```
* Syntax! Validating password and confirm password.
   <asp: Compare Validator id = "CVI" runat = "server"
    ControlTo Validate = "tx+compare" · ControlTo Compare =
    "txt password" . Operator = "Equal" . Type = "String
    Error Message: "password Mismatch"
                                        fore Color = "Red" />
  Syntax 2: Validate date
  Zasp: Compare Validator id = "cv2" runat = "server"
   ControlToValidate = "txtDOB" Operator = "Datatype Check"
    Type = "Date".
    Error Message = "Inav Insvalid Date"
     Forecolor = "Red"/>
A How do we we Range Validator:
  It ensures that the input value fall within the specified
   range.
 proposties:
 1)
    Id
 2) Remat
 3) Control ToValidate
   Minimum Value
    Maximum Value
   Fore Color
 6)
7) Error Melsage
 Syntax:
   <asp: Range Validator
                         id="TV 1"
                                      runat= "server"
     ControlTo Validate = "15" Maximum Value =
     Error Message z "Age 15 to 30 only"
      forecolor = " Red "
       Type = "Integer" />
```

```
\bigcirc
   A fegular Expression Validator.
    Meta Character
                      Quantifies
\bigcirc
   (? = * \ [A-Z]) = A+ least one Upper coure Alphabet
[A-Z(?= ·*[A-Z]) - At least one Upper cour, lower
care and number.
     ( } = * * [ 0-9]) = A+ least one no.
\bigcirc
     ( ?= +[ * $. @ # 1. &] = At least one
\bigcirc
      . Commot use / it is a group not a individual chara.
O.
    { 7, 15} = length of password. 7 to 15
\bigcirc
   * Fegular Expression Validator:
    A regular expression validator enables the user to validate
\bigcirc
()
    any field by wing a validation expression to build the
\bigcirc
    validation expressions we have to me the meta Chara-
\bigcirc
    -cters and quantifiers.
\bigcirc
     Meta Characters:
                            Description
\bigcirc
     Meta Chaxacters
                             Any word ie [A-Z a-Z 0-9_]
   4. VW
                             Any number [decimal)
   2. ld
                             spacer allowed
3, pull /S
                            Upper care Alphabet
0 4.[A-Z]
O. 5. [a-2]
                             lower case Alphate
 6. [0-9]
                              Number 0 to 9
```

Upper and lower case both

Characters in specified range

excluding specified characters.

0 1 [a-Z] or [A-Za-Z]

0 8. [a, 5, d]

Q. ['Na,s,d]

```
10] [a-mA-M4-8]
                         Characters in specified range.
 11) 2= **
                         At least one
12) +++1@1.1-
                          Special characters must precide with
1
* Quantifiers:
    Quantifier
                     Description.
    { n }
                     specified number of digits characters
2. {n;m}
                     Characters range from n to m
                      (min=n, max=m)
3) {h, }
                      ninzh and max = any humber
 * Properties of Regular Expression +
  i) ID
  2) Runat
  3) Control To Validate
  4) forecolor
  5) Error Message
  6) Validation Expression
 Syntax: Validate 10 digit Mobile no. Starting with +91.
    <asp: Regular Expression Validator id= "rev1" runat=</pre>
                 · Control To Validate = "txt Mobile"
    Validation Expression = " \+91[0-9] {103 "
    Error Message = " Invalid Mobile".
    Fore Color = " Red"/>
```

Syntax: Validate Password that must be between (7-15) (2)
Characters and with at least one number and special Characters.

<del>(= \*</del>

Error Message = "Invalid password Format"

Fore Color = "Red" 1/>

\* BulidIn Validation Expression:

Custom validation:

Custom Validator allows any field by using a chemical Client side / server side function. It comprises of arguments that evaluates to those or false. The Validation make shown when the argument evaluates to false.

## Properties:

- 1) ID
- 2) Runat
- 3) ControlTovalidate
- A) Error Message
- 5) Fore Color
- () Went Validation Function

<u>Event</u>: Server Validate

Syntax: Validating even number:

```
<asp: Custom Validator id = "CU1" runat = "server"
  Control to Validate = "txtform" Error Message = "Not an even
  number". Forccolor = "Red" OnSeverValidate = "SexverValidate"/>
    Protected void Custom Validatori - Server Validate (Object sender
     Server Validata Eventargs e)
      if (Convert. To Inti6 (args. Value) 1.2 = =0)
       args. Is Valid = true;
       else
        args. Is Valid = false;
     ž
* Validation Summary: It makes the summary of all the
 extors on a page and shows that excor messages as bulleted
 list or paragraph.
   Properties:
     1) ID
    2) Rumat
    3) Forecolor
    4) Displaymode : List, Bulleted List ...
    5) Show Message Box
     () Header Text
 syntax: < asp: Validation Summary id = "USI" runat="server"
  Header Text = " Please Check the following errors"
  Display Mode = "Bulleted List" Show Mersage Box = "True" />
 Ex: 1) Add a new webform "Register. aspx"
      2) (Design)
```

## Registration form UserName: txt Name [ Required field Validator] Paisword ! txtPassion [ compare Validator 1] Confirm Password - Extlonfirm [ compare Validator 2] Date of Birth: [tx+DOB [ Range Validator 1] 'Age: tx+Age $\bigcirc$ [ Regular Expression Validator 1] Bank code. tx+Bank $\bigcirc$ [Regular Expression Validator 2] Mobile: tx+Mobile [Regular Expression Validator3] Email Address: [tx+ Email $\bigcirc$ [ custom Validator1] Futer code: txtcode 0 ling 0 [ Custom Validator 2] ExtEren Ewer Even no! $\bigcirc$ Register $\bigcirc$ $\bigcirc$ [ Ibu Title] 0 Please Check the following extors: [validation summary] $\bigcirc$ · Error Message 1 $\bigcirc$ · Error Message 2 0 · Error Message 3 $\bigcirc$ $\bigcirc$ : $\bigcirc$ $\bigcirc$ 3) Validation Controls and their properties: $\bigcirc$ $\bigcirc$ a) Required field Validator: $\bigcirc$ properties Control 0. 1) Required field Validator . - Forciolor (Red) $\bigcirc$ - Text = \* ControlTo Validate = txtName

 $\bigcirc$ 

0

Error Message = Name Required

2) Compose Validators.	- Text = '*		$\circ$
·	- Control to validate = txtConfirm		$\hat{\mathcal{C}}$
	- Control to Compare - txtpassword		
•	- Error Message = Password Mismatch		0
	- Face Color = Red	i.	$\bigcirc$
	- Type = string	3	$\bigcirc$
e the e	- Operator = Equal	. ·	0
3) Compare Validator 2	> Text = *	1	0
	* Control To Validate = Text DOB		$\bigcirc$
	- ErrorMessage = Invalid Text		0
	-> ForeColor = Red	* *	. 0
	-> Type = Date		0
	> Operator = Data Type Check.		21X
		:	,
4) Range Validator 1	· Text= *		
<b>-</b> 4	Control Tovalidate = 1xt Age		
	Error Message = Age 15 to 30		3
<b>→</b>	foreColor = Red		)
·	Mi nimum Value = 15		(2)
_	Maximum Value = 30	*	
. → 7	ype = Integer		
s) Regular Expression Valida	~ ) ()()		0
	> Control To Validate = txtBank		
	- Error Message = Invalidelade		
	y Fore Color = Red		0
	-3 Validation Expression=		)
[A-	Z] {33 [0-4] {43 [A-z] {23		) ()
			0

·.

```
6) Regular Expression Validator 2
                                      >Text =*
\bigcirc
                                     - Fore color = Red
\bigcirc
                                    -> Error Meisage = Invalid Mobile Number
                                    -> ControlToValidate = tx+Mobile
                                   - Validation Expression = 1+91 to-9] {10}
\bigcirc
   4) Regular Expression Validators
                                  -> Text = *
\bigcirc
                                 - Forecolor = Red
                                 -> Control To Validate = txt Email
                                 → ErrorMessage = Involid Email
                                 → Validation Expression. Invalid Email
                                               (select from List)
  8) Custom Validator 1
                             x = +x3T ←
                            - Forelolor = Red
                            - ControlTo Valide = txt Capt cha
                           - Error Message = Invalid Code Entered
     - M
  9) CustomValidator 2
                          → Text=x
\bigcirc
                          - Fore Color = Red
                         → ControlToValidate = txt Even
                         - Ferror Message - Not an Even Number
  10) Validation Summary
                             - HeaderText = Please Check following errors:-
                            → Display Mode = Bulleted List
                           - Fore Color = Red
                           -> show Message Box = True
        Source Code &
       // On fegister Button Click code :
```

1. 新加州的基础。 it (Page. Is Valid) 161 Title . Text = " Registered ...."; // Custom Validator I: Seever Validate Event code: it (args. Value == "TTAG po 75") args. Is valid = true; else argi. Isvalid = false; // Custom Validator 2. server Validate Event code it ( convext. To Int 16 (args. Value) % 2 = = 0) args. Is Valid = true; else args. Is Valid = falle; Sy Styles & Themes = Styles are required in web Development to make the pages more responsive and interactive ASP. Net web Applications can use styles in three different ways: 1) Inline Styles 2) Embeded · Styles 3) CSS 1) Inline Style: In style are defined within the elem--ent by using a "style attribute". There are 'indi-- vidual to every element and connot be accessed 0  $\bigcirc$ by other elements.

```
\bigcirc
    6) Regular Expression Validator 2
0
      Syntax:
\bigcirc
        Zhi Style = "background-color: red; color: white;
0
          text - align: Centre; "> welcome to ASP. Net
\bigcirc
          </h1>
0.
    2) Embeded Styles: The styles are defined in the head
\bigcirc
\bigcirc
      section of page so that they are accessible by all
(_)
     elements within the page.
\bigcirc.
\bigcirc
     Syntax:
                <head>
\bigcirc
\bigcirc
                < style>
\bigcirc
               shows hi
0
                  background - Color : red;
\bigcirc
                   · color: white
0
                  3
\bigcirc
              </style>
\bigcirc
```

(44)

</head>

< body> < hi> Welcome to Asp. Net </hi>

- 17 </body>

()

(~:

0

 $\bigcirc$ 

3) CSS ( (ascade Style Shades) The styles are maintained in a reperate style sheet so that they are accessible from any page in the website. a) Right click on content folder in your website. b) Select the option "add new itum". c) Select the item type as style-sheet and name it as demo. CSSd) Write the styles in style sheet. background-Color: red; color: white Style sheet to any page. e) Link the <head> < link rel = "Stylesheet". href = "~/ Content/ Demo: css"/> </head> A Smality or web Essentials www. NuGet. Org > Download Thirdparty tools for VS-\* Minification: It is the new concept feature introdu--ced with asp. Net 4.5. It is the process of creating mi-- wified version of css and Javascript files, which will redu--ce the file size by removing unnecessary blank spaces. converting lengthy variables and logics to into shortcut? form Ex: 1. Download any minification tool. Ex. Smalify. 2. Open smalify tool. drag and drop your content folder into

smalify

- 3. Click "minify now".
  - 4. Minified version of css and Is file are created.
  - Ex. Sample. min. css Sample. min. Js.
  - 6. Link the minified file to your webform.
    - Clink rel = "Style sheet" href = "~/ Content / Sample. min
      · css"/>

## \* Bundling.

 $\overline{\phantom{a}}$ 

C.

 $\bigcirc$ 

C

C

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $C^{\cdot}$ 

 $\bigcirc$ 

 $\left(\begin{array}{c} \cdot \\ \cdot \end{array}\right)$ 

 $C^{\frac{1}{2}}$ 

 $\subset$ 

System. web. optimization required for bundling

console. there is write

Install-package microsoft, esp. net. web. optimization

dol" Explorer - references - system. web. optimization.

\* Add stylesheets: Don't want to use directly

App-start-Bundleconfig . Bundle:

Bundling - reduce request numbers.

Eurodling: It is one of the key feature of ASP. NET introduce of used with the version 4.5. You can reduce the no. of request while accessing multiple css or Js files, by making one a bundle of styles or scripts.

It improves the performance of an application and reduces burden on sexuer

a collection of "style bundle" and "script bundle."

Ex. 1) Create a new Asp. Net Application

2) Add following stre Style sheets into content folder

```
1) headstyles. 3 css.
 And write the following code:
   background - Color; green;
   color: white;
   text - align : centre
2) parastyles. CSS
 And write the following & code into that
    background-color: Yellow;
    text-align: justify
3. Goto the folder "App-start".
4. Open the file "Bundle Config. css"
       create a style bundle
   public class Bundle Config
  public static void register Bundles (Bundle Collection
                                      bundles)
   bundles. Add (new Style Bundle ("~/ Content / Demo").
       Include (" ~/ Content !/ head Styles.css"),
         "a/Content/ parastyles.css"]);
                                             parem array
      £.
                                                concept is used
    Add a new webform "Home. aspx" with some heading
                                                                \bigcirc
                                                                \bigcirc
         paragraphi we have to link a bundle
      In Home aspx (HTML source) - in head Section-
                                                                \bigcirc
```

(ero)

O. Zhead>

 $\bigcirc$ 

 $\overline{C}$ 

 $\bigcirc$ 

 $\bigcirc$ .

C.

< :/ : Styles . Render (" ~/ Content / Demo") %>

//head>

it it is script bundle then write script instead of syle and rest of the code will be some

C A How to use the styles? To adjust contents according to size of screen

Bootstrap is a repostry of css and javascript file. It provides 1008's of predefined styles and scripts that you can import and use with your application.

Microsoft integrated bootscrap services from the virsion

4.5.

Ex: Using css:

O I. Visit the website www.getBootstrap.com.

buttons, header, etc.

3. Goto Examples of selected category

\* Ex. http:// getbootstrap.com/examples/justify-nau/justified -nav.css-

C 4- Copy the css code.

C 5. goto your website and add a new style theet by name justified - nav. css-

C7. Paste the copied css code into the file

O.8. goto bootstrap website and copy the html code for the Style you selected.

```
9. Paste the html code into your outul page.
   " Home . as poc".
10. Link the following files to your page.
         - bootstrap.css
         - justified - nav. css
         - bootstrap-js
Syntax for writing styles:
* Writing Styles in a web form
  Syntax: selector
            attribute: value:
            attribute value;
* Types of selectors in css.
 1. Type selector :- It refers the element name to which you want
  to apply the styles.
        background-Color: Green;
         Color: White;
Note: The styles are applied to all h1 elements in the page.
  you cannot ignore any element.
 2. ID selector: It refers to am "id" so that the styles are
   accessible with refuence of "ID". The styles are affected
  only to the elements that are using the "ID".
   Syntax: # headings
             background-Color : red;
              "Color: White;
```

```
\bigcirc
         id = "headings"> welcome </hi>
     cp id = "headings" > faxa-1
\bigcirc
   Note: Every element can have only one id in multiple styles
    cannot be applied to a single element through "ID"s.
\bigcirc
  Then solution for that is class selector
(
   3) Class Selector: The styles can be defined as classes so that
    a single element can implement multiple classes.
           · back Style
             background - color: Red;
           · textstyle
            color: White;
           I text - align: centre;

Zhi class = "backstyle" · textstyle" > welcome </hi>

Note: multiple styles are seperated using space.
C_{\cdot}
   4) Descendent selectors: It refers to a child element to which
<u>(</u>.
\overline{C}
    you want to apply the styles
( ,
     Ex: 01>11
            Color: Red;
         < 01 > 1/1 order list(01)
         > Item 1 
(
         <11> Item 22/11>
```

5. Attribute selector: You can apply the styles to an attribute of any element so that element with same type of eathi-- bute will according the styles.

```
input [type = text]
       background-Color : red;
       color: white;
  <input type= "text" name= "txtName">
  Background Styles:
EX:
  - Background-color
   Background - attachment
 - Background - mage
 - Background - porition
 - Background - repeat.
Ex: < Style>
   body
   background - image: url ("images /1 jpg');
   background - repeat: repeat;
   background - attachment: fixed;
    font-size: XX-large;
  </style>
* Themes:
  Q)- when the themes are applied to a page?
 -> ou "page-preinit" not on page-load.
                     Page. Theme = "ThemeName"; int page-preid
        and write
   event.
```

\*Themes: Themes are also set of attributes defined for eleme (B)  $\odot$  $\bigcirc$ - nts to control their behaviour and apperance dynamically  $\bigcirc$ during roun-time. ()Themes are defined in a skin file" that have the extension 0  $\bigcirc$ "skin". And all skin files must be maintained in the folder C"app\_themes".  $\bigcirc$ The themes are applied dynamically to a page on or before  $\bigcirc$ the "preinit" & i.e, "page-prinit" event. ( ) Themes can be applied to a page by wing the "theme" property in page directive and by using "Page theme" attribute. Ex: 1. Right click on "froject Name" 2. goto add-new item' 3. Select Skin file. 4. Name it as "independence. skin". 5. Write the following wde in skin file: <asp: TextBox nunat = "server" BackColor = "Organge" Forccolor = "Black" /> => // for this we don't give id & text  $\bigcirc$ Lasp: Button runal = "server" BackColor = "Green" ForeColor= "White"/> Casp: Bat Image = " runat = " Seever" Image Urt = " 1 Duages / ind png"/> 6. Similarly add another skin file by name "IPI. skin". 7. Add a new web form by name login. aspr." 8. Design: User Name : [tx+Box Paisword 0 Change Subwithth Kancel

 $\bigcirc$ 

8. Add another webform by name "Select-theme aspx"	O
9. (Design)i	0
	0
Select your Theme: Independence \ Apply.	0
10. Apply Button Click code	$\bigcirc$
	$\mathcal{O}$
Context. Items. Add ("theme", Dropdowhlist 1. Selected Value);	
Login aspx');	$\circ$
/ Goto Login page, Add the following event.	0
Change page 1	$\bigcirc$
Change page_load to page_preinit.	$\circ$
protected void page_ Prelivit (object sender, EventArgse)	$\bigcirc$
Page Theme	0
page. Theme = Context. Items ["theme "]. To string ();	$\circ$
Master Page: Master Page:	$\bigcirc$
Master Page: Master pages are blueprints for a website or	$\bigcirc$
application. Every website may contain a collection of	
several pages and all pages must be uniform in Apperance,	
which can be achieved by using master page.	$\bigcirc$
1) Master Pages in Asp are derived from the base master	0
directive "@ master". It provides the set of attributes	$\bigcirc$
to configure the master page.	
2) The major components in a moster page are directives,	()
markup, and content placeholder.	$\bigcirc$
	$\bigcirc$
3) Content Place Holder In mouter page describes the location	0
where the child page consent is rendered.	$\bigcirc$
Every master page can have more than one content place	$\bigcirc$
holder.	$\bigcirc$
	0

A Vsing Master page for a website:

- 1. Create a new Asp. Net Application
- 2. Add new item

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

О.

- 3. Select the item type as "webform master page"
- 4. Name the page as site master -> Traditional Name
- 5. Site. Master (Design)

About	Contact
lder	
	Ider

6. Html source (site. Master)

0 \$ < 1. @ Master Language = "C#" %>

<! DOCTYPE html>

2 html>

< head runat = "server" >

<asp! Content-PlaceHolder ID="head" runat= "server">

</asp: Content Place Holder>

</head>

< body>

& form id = "form 1" runch = "sexvex">

<div>

< as p: Content place Holder ID = "body Content" runat= "server">

	· 0
	· · · · O
7. To add Child page with master page.	
- Select "Add new Item"	
- Select "Weblamas will so will	rebtorm using o
- Civa II	<u>,</u> ",
- Give the name as "Home-aspx"	
- Select Master Page file au "site. Master"	
8. How to add a master page for existing webf	oms :
- Groto Webform Desio Hem source	
- Remove the markup (complete html code	) O
- Add the following in page directive.	
<1. @ page language = "C#" Masterlagefi	le z "Niste. 0
Mai	ter " / >
- Add a content control and put your in	
"content":	
<pre> <app: .(<="" id="Cl" lowent="" pre="" runat="server"></app:></pre>	
ID = "body Lowtent">	ontemplace riolaes
	0
Ani > Nacesh IT - Home	
<1asp: content>	0
	. 0

\* Nested Master Pages:

 $\bigcirc$ 

 $\bigcirc$ 

()

( )

Master pages are supported with "multilevel Inheritance".

i.e A mouter page can implement another master page while

the webforms will use the decived master page so that

it aguires the properties of both parent and child master page

1. Add new item to your website

2. Select webform master page. Name it as "parent Master"

3. (Design) parent. Master:

Home	About	contact
		•
_ Content Pk	aceHolder -> Po	cent Body
	(c) copyright 2	

4. Add another new item to website

5. - Select " webforms master page (nested)

6. Give the name as "Child-master".

7. Select the master page file as " Parent-Master".

8. Groto Child. Master (html source)

%9. Add a content PlaceHolder (ID

Kasp: Content PlaceHolder ID = "Content2"

Content Place Holder ID = "Paxent Body" . runat = "server" >

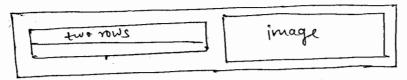
Lasp: ContentPlaceHolder ID = "ChildBody" runat = "server">

2/asp: Content Place Moider >

2/asp. Content>

10. Now add the following design to "Child. Master".

(11) Child Master page (Design)
In Content Place Holder



- 12. Add New item:
- 12. Select Webform with master page "
- 13. Name it-as "Home, aspx".
- in . Select the master page as "Child. Master"
- 15. Wicked "Add".
- "Default to masterpage".

  (Click yes to Continue)
- 17. Again Goto smaxt-tag and select "Create Gustom Content".

25/06

State Management - Roslyn Compiler

- -ation between pages.
- 2. It was the mechanism go get forget.
- 2 Go; Sends request to server.

Get: gets response from server

forget: Performs deamup i.e, It removes information of page from seever, After sending the response.

3. The Stateless nature of http is an advantage to server as it will reduce the burden on server, but it is an drawback for client because, client must remind the server about information between pages.

0	This requires the implementation of sever	al state of
(	management techniques, like	
$\circ$	1. Context	
$\frac{\circ}{\circ}$	2. querystring	
$\bigcirc$	3 Cookies	
	4. Selhob	
<u>С</u> .	5. Application	
	6. Viewstate	
$\bigcirc$	7. Cache	
$\bigcirc$	* Context: The context memory of any webapplic	ation is avoil-
0	-able only with the context of previous page. It	cannot fram
0	information to multiple pages and also canno	of be used to
C	v ·	
() ()	Context provides a dictionary type collection	
C	to store values under the reference of keys and	are accessi-
()	-ble by wing the teyname.	
0	* Syntax: Creating on context object.	•
$\bigcirc$	Context . Items . Add ("Key", "value");	
$\overline{\bigcirc}$	object type	
	* Syntax = Access the context values,	$\label{eq:continuous_problem} \mathcal{L} = \frac{1}{2} \left( \frac{1}{2} - \frac{1}{2} \right)^{\frac{1}{2}} \left( \frac{1}{2} - \frac{1}{2} \right)^{\frac{1}{2}}$
$\bigcirc$		
$\bigcirc$	Context Items. ["KeyName"];	· · · · · · · · · · · · · · · · · · ·
$\bigcirc$	Ex: + Add following pages to website	,
$C_{i}$	sugar. Login, aspx	
0	2. Welcome. Aspx	
0.	2) login.aspx(Derign)	
$\bigcirc$	·	
Q.	UserName	
C.	paisword	
	Clbistatus	
1)		

```
8) login button click code &
                                                                 \bigcirc
    if (txtpausword. Text = "admin")
     Context. Items. Add ("uname", txt User Name, Text);
     Server. Transfer (" Welcome aspr").
      else
     dblError. Text = "Involed password";
 4. Welcome aspr (Design)
          ClbItitle]
 5. Welcome aspr (1 (code)
11 Page-load event code.
   · +
     161 Title Text = "Hello" + Context . I tems ["uname"] . To string ();
* Query string:
   A query string is passed in the address box of browser
   it have the ability to transport values across websites
  However, it is not secured as it exposes the data in the
  address bour and it is accessible from any page.
   A request object is required to collect the values from
  query string.
     The size of query string will vary according to the browser
     I Browser
                       query string length
                         2083, 2048
         TE
                          165,536
        firefox
                                          Charactery
                           00008
        Safari
                           1,90,000
        opera
      Apache
                          4000-
```

```
Netscape - They all belongs to the Netscape (Browsers)
\bigcirc
    Syntax: Creating query string
    page.aspx ? Key = Value & Key = Value
    Syntax: To access query string value
     request guery string [key Name]
   Exit Add following pages to website.
     - Login.aspx
     - Welcome. supr
    2. Login, aspx.cs (code)
     1 Login Button Wick code,
       if (txtfassword . Text == "admin")
        E response. redirect ("Welcome, aspr ) uname="+
       txtuser Name. Text + " & pwd=" + txtpassword . Text);
       else
     IblError , Text = "Invalid Paisword" (
\subset
    3. Welcome. aspr. cs (Lode)
     Mostitle page_Load event code
     ablithe "Text= "Hello!" + Request. Overystring [ "uname "] +
     "Cbr>"+" Your Password: "+ Request. Querystring, [" pwd "];
0
   A Configuration property Attribute:
\bigcirc
       msdn. microsoft.com
\bigcirc
       Javascript document objects.
```

60 Cookies: 1. Cookies are simple text-files.	0
Server Stores the information of client in workie to the	$\check{ au_{\bigcirc}}$
il care access the elient intormation automatically trans	9.0
it can access the client information automatically from	
Cookie.	
2. The cookies represent a collection defined by the class?	0
"httpcookie".	. 0
3. The cookies can be a-	$\bigcirc$
a) Inmemory (Temporary)	$\circ$
h) Prayistant (A	
a) many browser do not support wokies	$\bigcirc$
b) They can be infected with virous.	$\bigcirc$
c) They do not exhibit cross platform (Not understandab	10
to all the browsers)	
d) Their functionality may vary according to the browser	
memory	
e) Creating and manipulating of cookies includes tollowing	0
steps -	$\bigcirc$
1) Step 1 : Create a cookie	
Syntax: http://ookie obj = new http://ookie(% "name");	$\bigcirc$
. ,	C .
Step 2: Assign value to cookie.	
Syntax; obj-value = value	0
Step3: Set expirag Date for cookie	$\bigcirc$
	$\supset$
syntax: obj-expires = Datetime	$\subset$
Stepy: Add wokie into memory	0
Syntax. Response Assala	0
Response - Append Cookie (010])	
	~

ż

```
* Note: The cookies in memory are accessible
\bigcirc
     using their their index or theme
: X storys
     Request Cookies ["KeyName"];
   Example:
      1. Add following pages to website
           - login, aspoc
\bigcirc
            - welcome aspx,
\bigcirc
     2. login aspx (Design)
C
User Name:
\bigcirc
            Paisword:
\bigcirc
                  ☐ Keepme signed in for two days
\bigcirc
                   [login]
\bigcirc
    3. login. aspx.cs (code)
\bigcirc
\left( \cdot \right)
     11 login button Click code
\bigcirc
      protected void Buttoni_ Click Lobject Sender, Event Args. e)
\bigcirc
         it (CheckBox1. Checked)
\bigcirc
         Http Cookie obji= New Http Cookie ("uname");
         Http Cookie Obj 2 = new Http Cookie ("fwd");
         objI . Value = txt User Name. Text;
          Obje. Value = txtpaisword. Text;
          Obj 1. Expires = DateTime. Now. Add Days (2);
          obj2. Expires = Date Time. Now. Add Days (2);
\bigcirc
        Ruponse. Append Cookie (obji);
(
        Response. Append Cookie ('obj'2);
      Server. Transfer (" welcome. aspri");
\bigcirc
```

**E3** 

4. // welcome aspx (design)
[IblUsex]

5. Welcome. asprice (vode)

Protected void Page-Load (object sender, EventArgs e)

HHPCookie obje;

Obj = Request. Lookies ["uname"]; lbl Vser . Text = "Hello"! "+ obj. Value;

Example 2:1: Example for in Memory Cookies

- I Add following pages to folders to website
  - ASP folder
  - Csharp forders.
- 2. Add a new webform,
- 3. "Select Exam. aspx"
- 3. Add following pages into ASP tolder
  - Q1. aspac
  - Oz. aspx
  - Oz. asp z
  - Result. aspoc
- 4. Select Exam. Aspx (design)

Select Exam:	V	Start Exam
ę	ASP	
	charp	

5. Lode for this; select\_Exam, aspn (Lode)

```
* Stort Exam Button Click code
\bigcirc
\bigcirc
      Switch (Dropdown List 1. Selected Index)
<u>(</u>.
\overline{\phantom{a}}
         case o: Response. Redirect ("~/Asp/a1.aspre");
                 break,
\subset
        Case: Response Redirect ("~/ C sharp / Q, aspri);
(
                break;
\subset.
        ' 3
  61/ OI. aspx (Design)
    1. The assembly for ASP. Net webform is:
Ċ.
\overline{C}
       O System windows forms
\overline{C}
         System. Web. VI
\overline{\phantom{a}}
         next
 T. Code = Q, aspx. cs"
     next Button Click (code).
     Http Cookie Obj = new Http Cookie ( "Oi");
       if (RadioButton), Checked)
(
            obj. value = "n";
         it (RadioButton 2. Checked)
(
          Obj. value = "y";
         · Ruponse, AppendCootic (obj);
         Server. Transfer ("Q2, aspx");
Ö
   8.
        Q2. aspr (Design)
       2. The Thenre are applied to page at
        o page preinit
        O page - wad
                              Vnex+
```

(54)

```
q. Code for Qz. aspr. cs:
                                                                  \bigcirc
   # Http Cookie Obj = new Http Cookie ("02");
      if (RadioButton). Checked)
        obj. value = "Y";
     if (Radio Button 2: Checked)
       obj. value = "n";
    Fresponse. Append Cookie (Obj);
      Server Transfer ( "Q3.arpx");
10. "Q3. aspx.cs" (Design)
  3. This is not the statemanagement technique
    Server Transfer
    Sersion
                 finish
v. ade for "as. aspx.cs"-
  finish Button_ Click Code
   HHPCookie Obj = new HHPCookie ("as");
    if (RadioButton1. Checked)
    E obj. value = "4";
    if (Readio Button 2. Checked)
      { obj: Value="n";
     Z
    Se response. Append Cookie (obj);
       Seaver. Trems for (" Rout. aspx");
    4
```

```
12 Result. aspn. (Design)
\bigcirc
\bigcirc
          [lbs Result]
\bigcirc
\bigcirc
    13. "Result. aspx. cs" (wae)
\bigcirc
       // page-Load event code
\bigcirc
\bigcirc
         int count;
\bigcirc
        HHPCOOKie obj;
\bigcirc
         String s = " ";
      Protected - void Page-Load (object sender, EventArgs e)
(
       for (inti=0; i < response request. Cookies (i); i++)
\bigcirc
         Obj = Request . Cookies [i];
    it (obj.value == "4");
(\bar{\ })
            · count = count +1;
(_,
     S= s+ "Q" + (i+1) + "." + Obj. value + "Zbr";
\bigcirc
\bigcirc
      161 Result, Text = "<br> "+ " your fotal score = "+ 12br>"
\bigcirc
       + S + " <br >" + " fotal correct = "+ count;
\bigcirc
\bigcirc
\bigcirc
```

 $\bigcirc$ 

```
* Q. How to check if cookies are enabled on not on browses
- Vring "navigator object"
 Ex: <head
     LIDOCTYPE html >
    < html>
    < head remat = 1" Server" >
    <script type = "text/javascript">
       function Cookie Statu()
    document. get Element ById ("cookie"). inner HTMI = "Cookie
    Enabled! + navigoror. Cookie Enabled;
   2/script>
   Z/head>
   Zboady on Load = "Cookies Status()">
    Z form Id = "form!" runat= "server" >
    Zdiv id = " cookie">
     C/div>
    </form>
   </body>
Application & session &
   Single Call & It is a remoting technique where the sexuer
                                                               \bigcirc
  system creates an object for every client to access the
  application, and this individual object is reffered a
```

session object. It contains the declarations that are

to accesible from session start to session end.

```
* singleton: It is also a remoting context where an 50
\bigcirc
\bigcirc
   object is cocated for the first client request and the
same object is provided to multiple clients. This is
    referred as an application object, which is accessible
\subset
\bigcirc
    from any sersion.
\bigcirc
  *Application Object: It represents a singleton technique that
   provides access to the resources from any went.
\bigcirc
C
    Syntax:
C.,
     Application ["key"] = value;
\bigcirc
   Note: All application objects are défined in a global appli-
()
   - cation class file (global.asax). It contains the following
( ...
   application events. ie. Application_Stouct, Application_End,
(\cdot
    Session_start, session-End, Application_error.
0
\bigcirc
   Example: 1) Goto global asax file and write the following
Ò
          code:
\bigcirc
     void Application-Start (object sender, eventages e)
0
            Application t"n"] = 0;
C
\bigcirc
0
       Void Session_Start (sbject sender, eventargs e)
\bigcirc
       Application ["n"] = (int) { Application ["n+1] +1;
\bigcirc
      Noid session-End (object sender, eventAgs e)
(
       {
\bigcirc
       Application ["n"] = (int) Application ["n"]-1;
()
      3
( )
           Application-End (object sender, eventage e)
(
```

Ş

manager to the control of the contro	The state of the s
void Application - End (	
ξ	
Application ["n"]=0;	C
27	
2. Add a new webform "Home aspx"	
ElbHiHe] [1615tatus]	
3. Home aspx Page-Load Event code.	
161status. Text = "You are Usur No :. " + A	pplication["ni];
* session:	
The session state will use a single call	mechanism 0
in a control and it is to	
from session_start to session_end.	0
The following methods are used to a banda	nt and omove
the sessions.	
a) Session. Abandon();	C
b) Session. Remove All();	
c) Session. Remove ();	
d) Session. Add();	
* Example &	· · · · · · · · · · · · · · · · · · ·
1) Create following themes in your website	* 0
- Independence. Stin	0
- IPI . Skin	
a) casp: Image · rmat = "server" Imagebol:	c " n/ content o
Je. png>	
2) Add following pages to website.	
- Login. aspr	
- Inbox, aspe	
- Contact . aspn	

.

 $\odot$ \* login.aspr (Design)  $\bigcirc$ Username : [ fassword . [ Select Theme: 1 1 trap slogin  $\bigcirc$  $\bigcirc$ \* Cogin Button Wick Code. Login as pro. cs. · Session [" theme "] > Dropdown list 1 - Selected Value; 0 Session [" theme uname "] = TextBox1, text; 0 "Server. Transfer (" inbox. aspr.");  $\bigcirc$ 2) Inbox. aspr. (Design)  $\bigcirc$  $\bigcirc$ Inbox - [Label] 0 image  $\bigcirc$ Contacts -> linkbutton / hyperlink.  $\bigcirc$ Page-Load, Page-Render. \* Inbox. aspx. cs code \* Page-Load event code.  $\bigcirc$ Labell. Text = Session ["uname"] - Tostringers;  $\bigcirc$ 1) page-preinit code "page. Theme = Session ["theme "]. To string();  $\bigcirc$  $\bigcirc$ 1 (portact: Link Button: Click code Server. Transfer (" Contau-aspri);

error and the contract of the	
7. Contacts aspx (Design)	
Contact - [1611]	
image	
(Fignout J'link Button	
e Contacts asprice (Code)	
// Page_Load and Page_Prinit code is same	as inbox, aspn
// link Button Click code	
Sex Vere Transt	
Sestion. abandon ();	
Server. Transfer & "login.aspn");	
}	
A View State :-	
Viewstate is a dictonoug type collection the	ut allows you to
Save and restore the values of a serv	er control across
multiple request for the same page	
Syntax:	
View State ["key"] = value;	
Twisdn. microsoft.com ) Download.	
	. * 0
A Add a new webform "facebook.aspx" (Design)	' <b>.</b>
image	
Clabel J Like I'm Button	
3. face book. aspx. cs (code)	
page-Load Event code	
ξ.	

.

```
\bigcirc
                                                                       (28)
         if (! page. Ispost Back)
0
\bigcirc
      laborel 1. Text = "Be first to like";
\bigcirc
    // Link Button Wick code.
\bigcirc
      int clicks Count = 1;
      protected void LinkButton 1= PClick (object sender, Eventargs e)
0
      it (Viewstate ["clicks"] !=null)
\bigcirc
(,
      * Clicks Count = Convert. To Int 16 (Viewstate ["Clicke"]) + 1;
\bigcirc
     Molabell. Text = Clicks Court + "Like (s)";
       Viewstate ["clicks"] = clicks (ount;
\langle \hat{a} \rangle
(\bar{z})
   A Cache & Memory Buffer.
(\bar{})
    Caching: Cache is are one of the statemanagement technique
(
    that allows the server to store frequently accessed data
\bigcirc
     into the buffer so that it can be accessed from buffer
     without the server interaction.
\bigcirc
      If the page or data is required very tray their
\bigcirc
                        in the one and accemble within
     it can
<u>(</u>]).
     a span of specified time interval
\overline{C}
   Ex: Add a new webform "Demo.aspx"
        Design: [161]
\bigcirc
     Goto netal source of Demospx and add the following
\bigcirc;
   < % @ Destput Cache Puration="30" NoryByParam="None": %>
```

10

 $\bigcirc$ 

3. Page-Load Event Code:		C
Labell. Text="Page Accessed on - "+	DateTime Now:	
	To String ();	
29/06 Desir During	, , , , , , , , , , , , , , , , , , , ,	0
29/06 Design Patterns:		0
The design patterns are solutions to soft		0
that you find in real world application	n development. They	Ċ
are about remable designs and inter	action of objects.	0
The design patterns are categorized		O C
a) Creational	<b>0</b>	
b) Structural		$\mathcal{C}$
as Behavioural		$\bigcup_{i=1}^{n}$
S Banaviouse		$\bigcirc$
3 Creational: The creational patterns	aco and man in the	0
that is creating of objects.		0
Ex: 1) Abstract factory	. (	
= 2) Builder		
		Ü
3) Str Singleton 4) factory method		$\bigcirc$
		0
5) Prototype		0
2 Structural patterns of The smuctural Pa	Herns deal with the	0
designing of classes. They are -		$\bigcirc$
1) Adapter		) -
2) Bridge		
3) Composite		) (
4) Decorator		' <sub>'</sub>
5) france		) )
5) flyweight		_ 
		<u></u>
7) proxy	. (	$\bigcirc$
	,	

3) Behavioural patterns: The behavioural patterns define scope 59 of object. It includes the location where and object is created and how it consumes the resources. Ex 1. Chain of responsibility 2. Command 3. Interpreter 4. Iterator 5. State 6. Mediator :7. memento 8. Observer 9. Strategy 10. Template Method 11, Visitore, Architectural patterns: Will describe how an application will run, Applications are build using a layered architecture (3-layers) and Applications run in a fierd architecture : Ex: 3 Tier MVP MVC MUVM . - SAA - Twitter A ADO. Net: / Activex Data Objects)

It is a framework that provides a set of classes, which are responsible for communication between the application & the database in multitier Architecture.

fature ADO primary Aim form of deta in memory Disconnected acees Disconnected access across multi Hers JMX Capabilities firewalks Code

ADO ADO. NET A DO. NET

client server coupled i; e. Connected

Uses Recordset

Uses Recorded object & connection object with oledB

Uses com to marshal Recordet

'XML aware

firewall block systemlevel commarkelling coupled to the langua-

-ge used, various implementation. Disconnected Architecture

mer Datalet

Uses DataSetCommand. object with OleDB

Transfer Dataset object via XML.

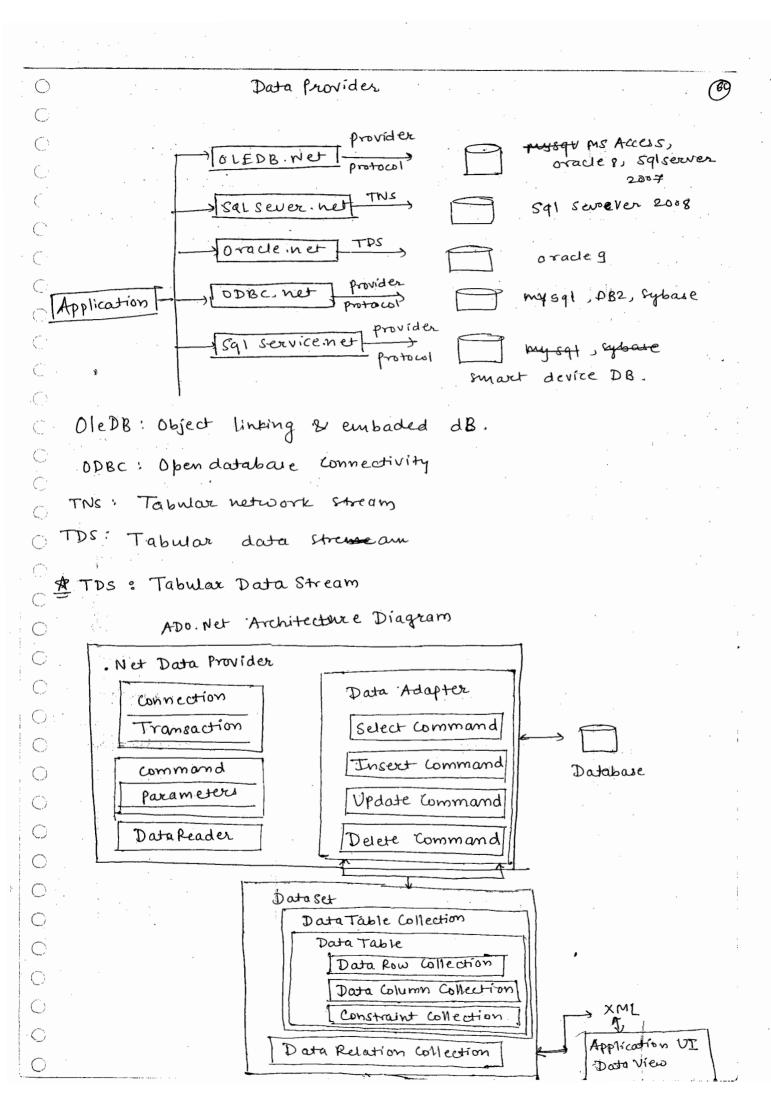
· XML is a native transfer medium for objects XML flows through the

firewall via http

Managed code library -Vies Common lang Funtime therfore long agnostic

\* Data Providers: The data providers are responsible for comm--unication bett Application & Database. There are several detabases globally used by various clients. However, there is no single provider that can communicate with all databases. Microsoft introduced the following dataproon son service. Let - vider -

- 1) OledB. net
- 2) Sqlsewer net
- 3) oracle net
- 4) ODBG. net



· The connection object provides set of properties and methods to connect with the database · The connections can be opened explicitly and implicitly · The query is submitted to database by using command object . The data Reader object is read only and forward only. It can only read the data from the data source . The adapter object implicitly opens the connection and execu--ter the command-. Adapter requires a dostaset or a DataTable to store the data. . Dataset is in memory database, which contains a collection by tables and relations · Data Table represent a records et, which contains only one Table . Adapter requires a dataset or table but they can be used without adapter · Data Set need not required Adapters to communicate. They can take help of the command object \* OLEDB Data Provider: · The OLEDB provider is responsible for connecting with the databases like Ms-access, Oracle 8, Sql gerver 2008 \* below . The OLEDB classes that are responsible for communica--ting with database are defined by the assembly -" Gystem. Data. Oledb". MSDRORA .. · The classes are -5 Microsoft Data Adapter - Oledo Connection for oracle - Oledb Command

- Oledb Data Reader

- Oledb Data Adapter

State => Shows to gets the connection status

- 07em and that connection status are -1) Open () 2) Close() 3) fetching() 4) broken() 1) Connecting, Syntax: Oled b Connection con = new Oled b Connection ("Co-- mection String "); Connection String. 1. provider = provider Name; 2. Data source - Database Name; 3. Userid = UserId; 4. Pausword = pwd;. Datasource · provider Name 1. MsAecess 2003 (. mdb) Microsoft. jet. Oledb. 4.0 2. Ms Access 2007 (.accdb) Microsoft. ace. Oledb. 12.0 3- Orale MSDAORA 4. Sql server SOLOLEDB. EX: 1. Open Ms Access. 2. Select Blank -> Database" 3. Specify the name and location for database Ex. & F: 11 Products Db. accdb.

4. Click create database

()

- 5. Gioto Create menu and select table.
- 6. Save the table by name "top provenct"

<b></b>
Datatype
AwtoNumber
Text
"Currency

- ( 7. Double Wick on table name to add records into the table trans
  - 8. Create a new webApplication
- 9. Adda new webform "Demo, aspx".
  - 10. Add a button control with text "Connect to M&Access"
    - 11. Write the following code for connect button click event.
      - I Import the Name Space Using System. Data. OledB.
      - 11 Button\_ Will Lode -=
      - Oledboonnection con = New Oledboonnection ("provider = Micro-
      - soft ace. 01edb. 12.0; Data source = froducts f: 11 Products

        Bb. accdb);

con. Open();

con aosees;

C

0

0

 $\bigcirc$ 

0

0

Response. Write (" connection ... "+ "Lbn>" + "Connection Status = " + con. State);

A writing connection strings in webApplication:

It is always recommended not to write the connection string, in page , you can use any one of the following methods -

- a) Writing in global as an
- b) Writing in web. Config

Ex: For global. asax.
I. Open global asax and Add a connection string as
Application object
* Void Application_Start (object sender, Eventargee) {  Application ["db Con"] = @ "provider = Microsoft, ace. ole-
-db. 12.0; Data source = F: Ve products DB. accdb ".
- Goto "Demo.aspx" and write the following lode
for button click event.
String strCon = Application ["dbCon"], To string ()s
Oledblonnection con = new Oledblonnection (strcon);
con. Open ();
Method - 2
x: writing connection in string in web. Config app settings.

## A

Appsettings are used to store Application Vouciables that can be changed dynamically during the runtime Ex +) Goto web. config file and add the following -<app Settings > <add key = "dbcon". Value = "provider = Microsoft, ace, Oledb. 12.0; Data source : F: \ EmployeeDb, accob! 1/> < app Settings >

O 2. Groto Deno. aspx and write the following code:

( ) Import Namespace

( ) Using System. Configuration;

( ) using System. Data. Oledb;

( ) Button Click\_code.

( ) String\_ strcon = ConfigurationManager. Aposettings

( ) [ "dbcon" J. Tostring();

( ) Oledbconnection con = new Olebdbconnection (strcon);

( ) con. Open();

Note:

 $\bigcirc$ 

 $\bigcirc$ 

Add the add key under connection string and write the new connection string in web-config. form.

Note: what is benefit of defining connections is in global aspx or A web config page?

Why it is not recommended to write the changes in Page-Load event.?

EX 2: Connection strings in web. config.	· ·
1. Add the following code in web. config	
< Connection Strings>	
<pre></pre>	, C
Provider Names " sy 1200	
Provider Names " system. Data. Oledo" Connectionstrin	
Connectionstring = "provider = nicrosoft, ace oledb.  Data source = f: // products DB. accdb!	12.05
Data source = f: // products DB. accdb"/> connection string	C
Connectionstring>	
2. Demo. aspx.	), 0
// Button Click - code.	0.0
String strelon = 1.	C
String strelon à Configuration Manager. Connection 57	rin ga O
Jalo Mng. (),	
$(-\omega)$	
con Openin; con = new Oledb Connection	(strlon);
A How do mail not be	. 0
A How do maintain connection string globally to access it	
from any Application in computer	0
- we can do it we using "ODBC".	* 0
-) Namespace changed to OBBC for Oledb.	O
tonnection put Day	. 0
given by you	
It we want access it from any other application	C
then.	<b>~</b> 0
	0
	<u></u>

AODBC connections; An open database Connectivity allows to maintain the Connection string globalty and locally on server so that it is accessible from any Application. 1) Open control panel - goto administrative tooks an. ()2) Open ODBC datasources. 3) goto "Eystem. DSN" property and click Add 5) Select microsoft provider for microsoft access provider (. mdb, . accdb). 5) Type the data source Name DSN= products connection 6) Type any Description 7) Click select Button and select the database file name. "F: 1 Products. Db. accdb". (8) Click finished (9) goto demo. aspx and write following water 1 Import the namespace Using System. Data. OBBC 1/ Button Click wode  $\bigcirc$ 

Odbe Connection con = new odbe connection ( DATE! DIN=
products Connection ");

con. Open();

 $\bigcirc$ 

 $\bigcirc$ 

()

 $\bigcirc$ 

 $\setminus \bigcirc$ 

Response. write (" Connected .-- ");

· 1. //	
About Command:	$\bigcirc$
Ole Db Command :-	0
1) It represents on sql statement or stored procedure to	
execute against a data source.	$\circ$
	0
2) Command Implicitly executes by using an adapter.	
3) Command Requires the following methods to execute	
explicitly.	$\bigcirc$
Methods are-	$\bigcirc$
1) Execute Reader; Vse when command returns more	$\bigcirc$
than one value.	$\circ$
Ex. Distance	0
Ex: Oled B Command and = new Oled b Command ( "select *	-0 :
from tolfroduct ", con);	0
Executing: and Execute Reader ();	
	$\cap$
2) Execute Scalar: Used when command Returns only one	$\circ$
Value	. 0
Ex: Oledblommand and = new Oledblommand ("scleet	$\circ$
Jount (" *")	$\circ$
Count (" *") from toproduct");	$\bigcirc$
To execute: and Execute scalare,	$\bigcirc$
	0
3) Execute Non query: Used when command is affecting the	و٥
database	,
Ex Oledb Command and = new Oledb command ("Delete from	
tol broduct where productId =1").	0
To execute; and. Execute Non Query ();	
	$\bigcirc$

), to

The commands are derived from the base "db Command" The command Text or String can be anyone of the follow. -ing types -( ) a) Text ( 2) Stored Procedure. 8) Table Direct ○ \* OledbData Reader() :-1) The data reader provides a forward-only string stream of data rows from data source. 2) It is readonly and will not support Manipulations. 3) It can read only once from the data source for connection i.e it is just like a Constructor. 4) It provides the following properties and methods.  $\bigcirc$ a) GetName: Returns the field Name at specified Index b) Getfield Type: fetures the datatype of field at specified 0 index c) Field count: Counts howman returns the total count of fields present in a table. 0 d) Read: Returns true if there are no more records to read from a table Ex: Using Data Reader And Command:  $\bigcirc$ 1) Write the councition string in web. Config" Connection Strings> Data. Oledb " Connectionstring = "provider = Microsoft ace." 12.0; 0

```
Data source = P: 11. products DB. accdb 11/>

Connection's trings>
2) Add a new webform "Demo. aspa" and "Demo. aspa" Denigno
               to Access
3) In Demo. aspx, Button-Click code:
 11 Import namespace
   Using System. Configuration:
   Vring. System. Data. Oledbi
 / Button Click - code,
   'string stron= Oted Configuration Manager. Connection Mings
  [" products Connection" ]. To String ();
  OledbConnection
                   con= new Oledb Connection ( strean);
   con Open();
  OleDb Command and = new Oledb Command ("select *
    from the product 11, con);
  Oled Db Co.
    Oledb Data Reader dr;
    dr. command. dr. and. Execute Reader ()
      while (dr. fead ()).
   fuponse. Write ( " product ID=" + dr [ " productID"] + "."
   + " product Name! + dr [ product Name"] + "- " + "price!"
   + Edr. [Price"] + " < 6 >> ");
```

Labels. Text = "Total No. of Fields:"+ dr. Field count + ("Lbr>" + "Field at Index No1: "+dr. GetName(1) + "Lbr>"  $\subset$ + Data Type of Price = "+ dr. Get Rield Type (2);  $\bigcirc$ wn. Close();

## \* @ OLEDB Data Adapter;

- 1) It represents a set of data Commands and a database connection that are used to fill the dataset or a table and update the data store source.
- 2) It opens the connection and executes the Command implicity.
- 3) Adapter provides the following methods:
  - a) Fill(): Fills the data into a table or a dataset
  - 6) Update (): Updates the table or dataset.

## ○ \* Data Table:

C

 $\bigcirc$ 

C

 $\bigcirc$ 

 $\bigcirc$ 

 $(\dot{})$ 

 $\bigcirc$ 

Q

 $(\bar{\ }.$ 

- 1) It represents a record set of ADO-
- $\bigcirc$ 2) It is transported across tiers by using Merchal by value  $\bigcirc$ component.  $\bigcirc$ 
  - 3) It doesn't support relationships.
  - 4) It is connected in access.
- I It provides the set of properties and methods that are defined under System Data"
- \* Ex: 1. Add a new webforn "Demo. Apx"  $\bigcirc$ 
  - 2. Design

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

-0



3. Demo. aspr. cs (code)	1. 1. 18	, 🔾
1. // Import the namespace	1 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	0
1924	. 7	•
Using System. Data. Oledb;	er egy e	$\circ$
Using hystena. Data	, , , , , , , , , , , , , , , , , , ,	. 0
		$\bigcirc$
string strCon = Configuration Manager, Connectionstring - ducts Connection"]. To String ();	2.6 pro-	
OleDb Connection con = new OleDb Connection (strCon);		10
DiedbCommand and= new OledbCommand("selec	+ x-from	
Holproduct; con);	U –	0
		0
Data Table dt = new Data Table ();		0
da. fill (at);		
Gridview 1. Data Source = dt;		$\bigcirc$
Gridview 1. Data Bind ();		$\bigcirc$
Response write (" connection status = " + con . State);		$\bigcirc$
		$\circ$
* Dataset 1) Dataset represents in memory dotabase.		0
e) It is a collection of tables, constraints and relation	n.e *	0
- 1: diconnected in access:		
i) It is bidirectional in navigation and manipulation	) <b>ડ</b> ્	0
1) It is bidirectional read write		
5) It supports manipulations.	A	0
6) It is fully XML featured		$\bigcirc$
		$\bigcirc$
7) Doesn't require any conversions.	:	$\bigcirc$
8) It comprises of set of properties and methods that	t are	$\bigcirc$
0 - 0 1 1		$\bigcirc$

-String strong Configuration Mananger = Connection Strings ["

Products Connection J. Fo string ();

Datalet de = men new Datalet ();

Oledbomm and cmd.

Ó

0

```
Button_click code
  protected void Button1_click (Object Sender, even+Args e)
    con : new Oledb Connection (strcon);
   and = new Oled Command (" select & from Hol Product in
    (on) =
  Oled BData Adapter Products Adapter = new Oled & Data Adapter
                                                  (cmd);
 Products Adapter. Fill (ds, "productstable");
 Gridviews. Datasource = ds. Tables [" ProductsTable "]
   Gridviews Databind ();
 Z
Button 2 - Click code!
Protected void Button 2 - Wick (object sender, eventages e)
 con = new Oledb Connection (strcon);
. and = new Oledb Command ("select * from tablategories"
   con);
Oledboata Adapter - P Categories Adapter z new Oledboata Ada-
       -pter (cmd);
* Categories Adapter. Fill (ds," Categories Table");
  Gridview. Data Source = ds. Tables [ "(ategories Table');
    Gridviewi @ Data Bind (1;
  3
```

O How to delete the table from database if it is thed convently used by one client and another client tries to delete 7 Pyntax: Altex database Aspalb Set Roll Back Set Single - User Roll back Tumediate Sql Server Data Binding A Sql server Data provider: The sql provider is responsible for communicating with 891 databas server database. It provides a set of classes defined under "system. Data. Sql Went". The classes are-1 Sq/commection  $\circ$ Sq1 Command 2. Sql Data Reader Sql Data Adapter  $\bigcirc$ O 1> Sql Connection: Sql connection con = Mew Sql Connection (Connection String); Connection String = Data source = Sexver Name, Initial Courtog= Database Name. Integrated security = SSPI, wer id = User Menny password = password ". 1) Create a new Database in sqlserver by Name Asp Db". 2) Greate a new table by name +61 products". Datatype Fredd 0 int (is Identity = true) 1) p. product Id (PK) 2) Is Identity Name tore Narchar (50)  $\bigcirc$ Money 3) price  $\bigcirc$ 

 $\bigcirc$ 

3. Add records into the table.	
4. Create a new Asp. Net Application	
5. goto web config and write the connection string	
< connectionstrings >	
<add <="" name=" Product.&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;System. Data. Sql Went" th=""><th>O Sicron !</th></add>	O Sicron !
"Connection String = "Data Source = .; initial cattog = A	O TP Db.
Integrated service security = SSPI, were id = used pid, pa	) E E E E
123"/>	C
	· · · · · · · · · · · · · · · · · · ·
Connection Strings>	. 0
6. Add a new webform "Home.aspx".	C
7. Home aspx (design)	C
Show Products	) (1)
Data grid view 1	
// show_product Button click code:	0
1) / Import Namespaces	
Using system. Configurations	
Using system. Data;	0
using system. Data. SqlClient:	
// 8how Button_Click code.	. 0
string strCon = Configuration Manager. Connection Strin	grt" o
products Connection" ]. To string ();	
SqlConnection con = new SqlConnection (Frcon);	.0

```
69)
    SqlCommand and = new SqlCommand ("select * from
     tolproducts, con
      Sql Data Adapter da = new Sql Data Adapter (cond);
      Dataset de= new Dataset();
      da. Fill (ds; "ProdTable");
    Gridview 1. Data source = ds. Tables ["ProdTable"];
      GridView 1. Data Bind ();
C.
  # SQL DataBase Binding operations using layer based architect-
       -ure (crub operations)
   I. Create Database by name AspDb".
(
  2 Create table by name "this roducts":
  3. Create a stored procedure to get product list.
      GAR
      Create procedure sporet produce
      As
      Select Product ID, Name, price from Holproducts
      Go.
  4. Create a new Asp. Net Application by name "SQL CRUD",
  5. goto web config and write the connection string
  6. garo file Add a new webform by name Details. aspri
      Design
  7.
                                   Mydate
                         Details
                ProductID
                                   Delete
                         New
       Name
                         insert
       price
                          Show All
              fitter product:
                           JOP 2
                          Bottom 2
(:
\subset
         Data Gridvicol
```

1

8. Goto file Menu -> Add new Project	0
q. Select & class library project and named it as "Data Access	0
	0
Layer".  10. goto References in "Data Access Layer" -> Add reference ->  "system. contiguenting"	
"system. configuration".	0
[]· [===================================	0
71. Add a new class in "Brata Access Layer" by name "froduct.cs".	0
Public class Product	0 ;
	0
Public ProductID & get; set; 3	
public ôtring Name Egets set; 3	$\bigcirc$
public double & price {get; set;}	O .
s but fact, set is	$\bigcirc$
10 Λ d l	$\bigcirc$
p. Add another class into "Data Access Layer" by name ">	$\bigcirc$
"products (RUD.cs" and write the following code there.	
// Import Namespaces.	
using System. Configuration;	) ()
using system. Data. Sal Client;	5
Using Rystem. Data;	$\bigcirc$
using system.	$\bigcirc$
namespace Data Access Layor	0
S	$\overline{}$
public class Products CRUD	$\bigcirc$
<i>5</i>	
string strom = Configuration Manager. Conhection Strings["	0
products Connection" J. To string ();	$\bigcirc$
Sql Connection con;	$\bigcirc$
Sq1 Command and;	0
	$\bigcirc$

```
0
        1/ Read Operation
 \bigcirc
     public I Enumerable < product > products
. ( . .
        ર્
 ( Î.
        get
        List < product > products = new List < product > ();
         Con = new sql Connection (storCon);
(
(¨.
         cmd = new Sq1 command ("spGret procedure", con);
( |
         · Sql Data Reader dr;
          dr = cmd. Execute Reader ();
        while (dr. Read())
 (
        Product : Product = new product ();
(\hat{x}_{i_{1}}, \dots, \hat{x}_{i_{m}})
        product. Product ID = Convert. Toin+16 (dr ["product ID"])
        Product - Name = Fdr.["Name"] - To Gring();
        Product Price = Convert . To Double (dr[" Price"]);
\bigcirc
\bigcirc
        products. Add (product);
\bigcirc
         return products;
\bigcirc
        & Groto "SQL CRUD" squ & ASP Project and add reference for
        "Data Accesslayer".
\bigcirc
               Right wick on references
()
             - Add reference
\bigcirc
                goto solution category
\bigcirc
```

- Select Data Access Layer

 $\bigcirc$ 

 $\bigcirc$ 

10

```
14. Details aspx. Cs (code)
                              Product CRUD db = new Products CRUD();
  1 Import Namespace
      using Data Accesslayers;
 // Details Button Click code
 int id = int . Parse (tx+ProductID. text);
   for each ( vax item in db. products)
    if (item. Product ID = = id)
     p. txtName text = Hem. Name;
        txt price. text = item. frice. To string ();
     ì
   ζ
// DropDown list Selected Index Changed Code.
   Switch (Dropdown List 1. Selected Index)
    3
    sale 0: GridView1. Data source = db. Products;
             & GridView1. Data Bind (1:
             break;
   Case!: List < product > prods = db. froducts. Order By Descen-
      - ding (x => x. Price) Take (2). To List();
            Grid Views. Data Source = prods &;
              Grid Niews. Data Bind ();
              break;
     case 2. List < product > prod = db. Products. Order By (x =>
          x. price). Take (2) . To List ();
            GuidView 1. Data source = prod;
```

```
(11)
        GridView1. DataBind();
         18 break;
  Create Operation :
             stored proceduce to insect records
  Create procedure SpAddfroducts
 @ Name Varchar (10),
  @ Irice varcharso) money,
   insect into tolfroducts ( Name, price) values (@ Name,
            (a Price)
2. goo goto Data Access Layer and add the following method
     " Products CRUD: CS".
  Public void Add Product (product froduct)
```

con = new Sql Connection (str Con); con. Open(); cond = new Go Sql Command ("spAddfroduct", con); Command Type = Command Type - Stored Procedure; SqlPaxameter paxamName = new sqlPaxameter us Param Name. Parameter Name = "@Name". Param Name. Value z froduct. Name; and Parameters. Add (Param Name); Sql Parameter faramprice = new Sql Parameter ():

Paramprice. farameter Price = "@ price";

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

C

 $\bigcirc$ 

 $\bigcirc$ ( :

 $\bigcirc$ 

(

<u>( )</u>:

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

()

 $\bigcirc$ 

0

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

C

Go

3

1. Create a

```
ParamPrice. value = Product - Price;
   end. farameters. Add (paramprice);
    Cond. Execute Non Query ().
  / con. close ();
3. Goto "Details. aspx"
1 "New" Button Click code.
     tx+froductID, text=" ";
     tx+Name. Text =" ";
     txtprice , Text =" ";
     tx+ Product ID. enabled = false;
     tx+Name. focus ();
/ Insect Button Click wde.
  Note: Create a method "Getlist ()" to display the records
  in Grid View.
      private void Get Vist ()
      Gridview 1. Data source = db. froducts;
      Gridviews. Data Bind ();
  4 Insect Button Click code:
   · product = new product ();
    Product. Name = tx+Name. Text;
    product. Price = Convert. To Double (tx+price. Fex t);
        db. Add Product (product);
        GetList ();
      · tx+Name · Text = " ";
```

```
\bigcirc
        txtprice . Text = " ";
         txt Product ID. Text = " ";
         tx+ Product ID. Enabled = true;
Ö
         tx+Product ID. Focus ();
()
   A Update operation -
(\tilde{})
    1) Create a stored procedure to update records
        Create procedure sproducts
()
      @ product Id int,
      @ Name Varcher (50),
\bigcirc
      @ Price money
\bigcirc
     AS
()
     Update : Horproduct SET
0
     Name = @Name, Price = @ price where productID = @ ProductID
\bigcirc
     go
()
\bigcirc
   2. goto DataAccesslayer and add the following method in
      1" Products CRUD". CS.
\bigcirc
      Public void Update froduct ( product product)
\bigcirc
       con = new Sql Connection (strcon);
\bigcirc
       Con . Opents;
        "und = new sql command ( "spvpdate product;" con):
        and CommandType = Command Type . Stored Procedure :
        and. Parameters. Add with Value / "@ product ID"
()
\bigcirc
                          Product . ProductID);
()
       end. Parameters. Add with Value [ " [ price !" Product. Price];
\bigcirc .
         Cmd. Execute Non Query ();
        Con, Close ();
```

```
3. Goto Details.aspx.
  Update Button Wick code
     product product = new product ();
     product. ProductED = int. Parse (txtProduct ID-Text);
      Product Name = txt froduct . Text;
      Product Price = txtprice Text:
                     Convert . To Double (tx+price. Text);
       db. Update Product (product);
       GetList();
* Delete Operation =
 1. Create a stored procedure to Delete product
    Create procedure spDelete product
    @ ProductID int
    BAS
    Delete from to 1 products where product ID = @ product ID
    Go
2. Goto Data Access Layer and add the following method in
     10 products (RUD · CS".
   public void Delete Product (int Id)
   con = new Sql connection (stream);
    Con. Open ();
    cond = new Sql Command ("spDeletefroduct; con);
    and. CommandType = CommandType. Stored Procedure;
```

```
\bigcirc
       and farameters. Addwith Value ("@ productID!, Id);
\bigcirc
        Cond. Execute Non Query ();
         con. close();
        7
\overline{\phantom{a}}
C
    3) Details apri.
\bigcirc
     / Delete Button Click code
C
        int id = int parce (txtproductID. text) 3
\bigcirc
           db. Delete Product (id);
\bigcirc
Ci.
           Grethist();
           tx+productID. text=" ";
           tx+Name. Text = " ";
           tx+ Price. Text = " 4",
           tx+ froduct ID. Focusis;
\bigcirc
O * Data Sources ;
    The data source controls provides set of properties & meth-
    -ods to bind and communicate with various datasources
\bigcirc
\bigcirc
     inapricity. Asp. Met provider the following datasources.
          Sq1 Datasource
      (1)
\bigcirc
      @ B Entity Datasource
()
          Ling Datasource
      3
\bigcirc
      (9) Object Datasource
         Sitemap Datasource
     \mathscr{E}
<u>(</u>
          & XMI Data source
     ©
\bigcirc
  * Sql Data source: It provides a set of properties and meth-
     -ods to communicate with the databases like sql Server,
     oracle and oledb.
     (\mathcal{F})
\bigcirc
```

· ···	
EX: O Add & following pages to website.	
- search aspr	. 0.
- Results.aspx	0
	, O
⊕ Search.aspx (Design)	0
Search By Nanc: [ Phois Results]	
3 Search aspx. cs (code)	$\circ$
// Search Button click code:	0
Session ["product"] = TextBox1. Text;	. 0
lesponse. Redirect ("Results. aspx");	. 0
4. Results. aspx (Design)	0
[Sq1 Data source I]	
	9
data Gridview1	
5. goto Sql Data source I smart too and select Careliance Die	
5. Yoto Sql Data source I smarttag and select Configure Da source".	<del>)</del> व ं
6. A configuration wizard starts with following steps:	0
84ep1 = - Click new connection	. 0
- Select Data source sql server	0
	O
- Specify server Name as "(local)"	, o
- Select Authentication (windows 7 server)	0
- Specify Userid & password	0
a day a	$\circ$
- Select Database Name 1887	
- Select Database Name "AepDb".	0
- Click Next	0
Step 2: - Select TableName "tb1 Products;"	0 0 0
Step 2: - Select Table Name "tol Products;" - Select fields	0 0 0 0
Step 2: - Select TableName "tb1 Products;"	

Columne Name  $\bigcirc$ Operator = LIKE  $\bigcirc$ Source = session O SessionValue = Product. 0 - Click Add ()- Click Next Note: Advance - for insect, Update & Delete. (Step3: - Click "Text Query" O : - Click Finish" 7. goto Gridviews properties and select Datasource = 891 Datasources" Ċ. Data Bound Controls; The Data Bound Controls Enables the VI to interact with Database like performing operas CRUD operations. Asp. net provides the  $(\overline{\phantom{a}})$ following Data Bound Controls = 1 Data List @ Details View 0  $\bigcirc$ B form View C @ List View  $\bigcirc$ 6 Repeater  $\Box$ 1 DataList: It enables the UI to read the data from  $\bigcirc$ Datasource and Display in Page to that, it cannot be  $\bigcirc$  $\bigcirc$ & modified p  $\bigcirc$ Properties: i> Id. 2) Remat 3) Data source - Sql Data source 4) Repeat Columns 5) Repeat Direction  $\bigcirc$ 

E) Show Grid - Hor, Ver

 $\bigcirc$ 

	and the second s
@ Details View: It is the Data Bound Control that	tenables 0
the user to perform all the CRUD operations.	
Properties:	0
i) Id	
2) Riment	.Q.
B) Datahurce	
5) Footextext	
5) Auto Generate Hink Button	
7) Auto Generate Delete Button	
8) Auto Generate Insect Button	
9) Auto Format	
10) Enable paging	
A Form view! The form View Control enables the UI	to perform o
any specific on the like Edit Pand or Threat	0
any specific operation like Edit, Read or Insert	
* propertie.	O.
') Id	9
2) Runat	
3) Datasource	
4) HeaderText	<u> </u>
6) Defaut Mode: Insert, Delete, Read, Edit	
Default Mode: 211	0
A List-View &	UE to perform )
It is the Data Bound Control that enables the	
all CRUD operations and display the data in	Jasuar 0
forem	
* properties à	0
1) 60:10	
2) Rimat	
3) Data source	
4) Configuretti List View	$\circ$

\*

5. Enable Theers
C 6. Enable Edit
C 7. Delete
C. F.
Paging 9. Three-17.
9. Insert I tem position: First I tem, Last
Oulot Poor In a Poor I agout: Girid, SingleLine.
Repeater control;
A repeater control is a data bound control that enables the
UI to customize the Apperance by wine
(1) The Header Template
2) Footer template
3) Item template
Properties;
( ) ID
( 2) Rimat
C 3) Data source ID
Note: The data bound controls can bind database fields
a using the following methods -
a) Bind
b) Eval
The Bind method binds database field with any specified
Control. Whereas Eval is used to show the database
C field as a literal
-field Title and add the following field
- field. Datatype
Phn4n
vacen ar
C - ~/ photo/mobile is
- ~1 photo / mobile . jpg

3. Add a new webform by name products as pre"	
4. Add following controls to page on-Sql Data source?	
5. Configure Sql Data source with products table.	$\circ$
6. Set Data source for repealer " " " "	
6. Set Data source for repeater as "sql Data source 1"	· · ·
7. goto home source of repeater	
8. Add the following code.	0.0
<asp: data="" id=" Pepeater!" nunet="Server.&lt;/td" repeater="" source=""><td>C</td></asp:>	C
Datafource TD "	0
Sql Data Source!"	
<hi>&lt; Header Template&gt; &lt; h1 &amp; align = "centre" &gt; &lt; products Into a</hi>	$\bigcirc$
	<b>5</b> .0
	$-\circ$
= (Header Template > < Item Template >	0
"1" width = "200" >	0
	0
Thage Url = " I !! " I mage ID = "ing 1". runet = "Server"	
Bind ("Photo")	0
Height = "100" /> Width = "100".	0
<+d>>	)
	0
·	$\bigcirc$
<td< td=""><td><math>\circ</math></td></td<>	$\circ$
	0
<pre> &lt; &lt; td&gt;&lt; &lt; f. # Eval ("Name").1.&gt;</pre>	0
(tr> <ta> &lt;1. # Eval("Price") %.&gt;&lt;1+d&gt;&lt;1+vs</ta>	$\bigcirc$
	0
	$\bigcirc$
	0
	0
C/Ztem Template>	$\odot$

```
76
( )
       < Footer Template>
      Ch3 align = "centre" > & copy copyright 2015 2/h3>
      < 1/ Footer Template>
      Clasp: Repeater>
  * Customizing Grid View Control:
   Hiding Any specific field inside the grid View
      goto the source of field and set visiblez "false".
    I goto html source of grid view.
    <asp: Bound Field Data field = "Name" HeaderTex+ = "Name"
     Visible = "false"/>
(2.2) you can also Delete the bound field from grid View Source.
  3. Changing the header text for any field in grid View
O Syntax:
    <asp: Bound Field Data Field = "Name" Header Text = "froduct
                                                          Name" />
O 4. Applying Data formats to guid View Data Fields.
       (Date, Currency, Time)
O Symtax: For currency
   <asp: Boundfield Datafield = "Price" HeaderText="froduct price"
    Dataformat string = "{0: (3"/>
      0:d - Short Date Format
\bigcirc
      0:D - long Date
()
     v: c - Currency
     0:7 & Short Date
\bigcirc
     o: T , long Date
```

0

 $\bigcirc$ 

@ Adding controls to gridView.

(Image in Grid View)

a) Goto and view properties and select red edit columns.	
b) In selected Columns category select the field "photo".	
c) Click on the 17hk convect field - "Convert To Template	C
field".	$\mathbb{C}$
d) Groto Html source of grid view you will find "Template	Ċ
Field for photo	C
e) Change the item template as shown below.	
fyntax:	C
<asp: field="" header="" templote="" text="photo"></asp:>	C
< Item Template > <asp: imageid="imgi" runat="&lt;/td" temp=""><td>C C</td></asp:>	C C
"Server" Imager = '<10 # Bind ("photo") :0/0>1	0
width = 1100' . Height = 100' . 1>	
Template field>	( )
5) Customizing grid view by adding checkbox into column of goto ham source of grid view and add following	
template in grûd view.	C
11 inside gnidview ID under.	$\circ$
	0
< a.p.: Template field > Effect Template > 2007.	
Check Box & ID = "C1" runat = server 1>	
	$\subset$
<a>p. Template field&gt;</a>	C
Columns>	

6. Adding insect operation to the gold view by customizing : 0 to the footer template.  $\bigcirc$ a) Goto grid View properties and select EdH-columns. b) Convert all field into template fields.  $\bigcirc$ c) Add a footer template for every field with the work you want to display (1 Casp: Templatefield HeaderText = "froduct ID" >  $\bigcirc$ <footer Template > <asp: ButtonID = "bthInsext" · runat = "sexver" Text="Insext" Ondick = "b+n Insect - Click"/> ()// Template> Closp: Template field> Adding Validation Theide the Gridview & Bound Fields. a) goto grid view properties and select "edit columns" b) convert the price field to template field.  $\bigcirc$ (9 goto him source of grid View and add a validation ()control for price ()Ċ, d) < asp: Template field "Header Text " Price" > ( Edit Template < Edit Item Template > C. Casp: Required Field Validator ID = "rfv1" rumat = "Sex ver" Control To Validate = "TextBox1", Error Message = "Price Required" Forecolor 2" Red" 1/> 0 / Edit I tem Field >



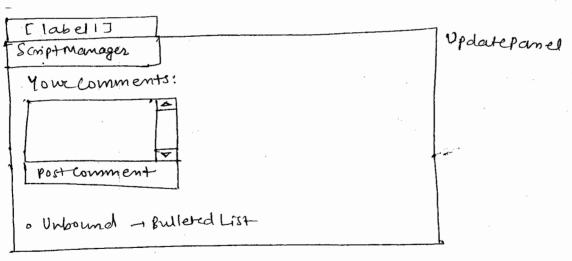


# AJAX (Asynchronous Javascript & KML)

- 1. AJAX is used web Development to make the applications more interactive and responsive.
- 2. It can be used to maintain partial post-Backs so that only a portion of the page is posted to server.
- 3. Asp. net provides several AJAX extensions, which includes 0
  - · a) Update fanel
  - b) script Manager
  - &) Timero .... ete-

### 4. Ex.

1) Add a new webform by Name "Comments.aspe".



Post Page

2) Source code

// page Load Event code:

Labell. Text = "pase ported on:" + Date Time, Now. To thing

// post comment Button Welcede

O Bulleted Ust . Items Add (TextBox1, text.	t" Ported on in 7
O DateTime. Now. To string());	
OBSOT Default user for ASP. NET is ASPNET.	
A Security in	Ahe.
ASP. NET provides several security feature	res that allows
application to restrict the accessibility	. The following are the
O Security features in ASP. NET.	
O D'Impere sonation	
2 Identity	
OpenId)	
Member Ship	
Autherization and authentication	
Impersonation:	
Every website is process	
O user (ASPNET) (have	juest of the default
O known as "impersonation".	It user account is
0	
This type of security is Applicable based websites Tiens	e for only intranet
O based websites. This requires a setting	in web. Config file
< 8yslem. web>	
1- Add a new folder by name "man	rager"
2. Add a webform Home our into	1
3- Add new item justo ma	Tolder
3- Add new item into momager folde O item type as "web. config"	er and select the
< System. Web>	. · · · · · · · · · · · · · · · · · · ·
O < identity imperionate & "true".	
O Username = "mamager"	

password ="1234"/>
</system.web>

## Dpen Id & 4.5

It is the new feature introduced from Asp. net 4.5 O It allows third party logins that is you can use o google, facebook and twitter accounts to access website o

- 1. Create a new ASP. net Application,
- 2. goto App-Start" folder
- 3- goto the file "startUp\_Auth, &s"
- app. Use Google Authentication();
- 5. Now press "f5" to run Application
- 6. Click "Login" from Default page
- 7. Google option will be available at other service logins
- Authorization and Authentication:

Authentication is the process of cheeking were credentials. ()
like (userliams, password), security token, etc).

Authorization is the process of allowing access to the resources of a website. Assent provides three types of all authentications.

- 1) Window Authentication
- 2) form Authentication
- 3) Pass port Authentication

```
1 Windows Authentication:
     It is a process of giving accessibility to the resources
  of a website by using windows creadentials. This is
  applicable for intranet based websites and this requires
   the following configuration in web. config file.
     < System web>
     < authentication mode = "Windows" >
    </authentication>
     Kallow Users = "Manager Rahul"/>
0
Ó
      <deny users = " ?"/>
\bigcirc
     </authorization>
\bigcirc
     </ eystem. web>
   * = deny A1 wers.
\bigcirc
   ? = Deny Usens without security token.
\bigcirc
  A Form Based Authentication:
    It is the process of authenticating the user by checking
0
    his credentials with a login form and Database
\bigcirc
    Vsers are given accest to application only when their
\bigcirc
    Crendentials moteh with database. This type of authenti-
\bigcirc
    -cation is Applicable to both intranet and internet based
\subset
0
    websites. This requires configuration in the web. Config
\bigcirc
     file
0
\bigcirc
      < system web>
\bigcirc
       < Authentication mode = "forms">
       cforms loginUrl = "~/ Login, aupr">
\bigcirc
```

 $\bigcirc$ 

<

<pre> // authentication &gt; </pre>		<b>'</b> .
< authorization>		* **
<pre> / deny Vseu = "?"/&gt; -&gt;</pre>	, *	
/ cystem. web>		
X: 1) (reate a new tab	le insql Database	by name
"tb1 Users".		
Verid Userid (PK)		1.,
UsezNome	} Varchariso	÷
Pausword	ر ۱۳۵۰ تصدیمی	
Mobile		``````````````````````````````````````
(reate a stored procedure	e so Ponteler"	
	- Pregistor	
Add the following pages	to your website	
- Home aspr		:
- Register aspr		
- Logis. aspri		the second of the second
- Erron Aspa	• .	
- Success-ospn		7.
<i>J</i>		9 4
- Tutorial.aspr		
Home aspr Design.		
Register 45	Newvser < a href	<b>v</b> .
New Vser Register		
Existing user Login		
Fegister aspr Design		
v		

 $\bigcirc$ 

Userid UserId required -> required field vold-
Manuface a F
- Password [
Malalla —
O Problé Divalid Mobile > RE Validator
Register
6. Register aspuratods
() // Import Namespace
using System. Data. Egicient;
Chring Rystem. Data;
7. Register Button Weklede.
( it (page. Isvard)
C. s
le Sql Connection con= new Sql Connection ("Data burce=
is inHal cartog = AspDb; Integrated Security = SSPI;
O Userid = Sa; password = 123 ");
Con. Open();
Sql Command and = new Sql Command (" spsto spregister"
Cond. Command Type = Command Type. Stored Procedure;
and, Parameters. Add with value ("@ userId," txt userID. Text)
Emd. Parameters. Addwith value ( @ fass. User Name; txtUserName.
text);
C. Cind. Parameters. Add with value ("@ Password", tot password. text).
and parameters. Addwith value ("@ Mobile", extensbile, text)
and Execute Non Ouery ();
con. @ closecs,

Server Tromsfer ("Logson aspx");	<
4	
a loan arm Delian	
4. Login aspr (Design)	
VserId []	. 0
1	
login	
8. Login. aspx. cs ( code)	
Sqlonnection con = new Sql Connection (	
1/ Import Name space	
using system. Data;	
Using System. Data- Sql Client;	, 9
// Login Button Click Code	
Sql Connection con = new (sql Connection ("	_ ");
~ Con. Openis;	
Sqleommand cond = new Sqleommand (" S.	elect
UserId, paisto word from tolusers where	UsecID =
@ UserId and password = @ password; con);	
and, parameters. Add with value ( "@ UserId ;"	4x+UserED.
	tex+);
und. Parameters. Add With Value ("@ Password;"-	tytpassioord, text).
DataTable dt = new DataTable ();	
SqlDataAdapter da = new SqlDataAdapte	r 1 cmd1-
da. fill (dt);	
	(
"It (dt. rows mas). count >0)	

.

```
Sexvex. Transfer ("~/NaceshIT website / Tutorial.ospx");
      else
     Server, Transfer ("~/ NaxeshIT Weblite / Error. aspx");
    con. Close (7)
\bigcirc
  9) Success, aspx,
     <a href = "Login.aspn:"> Login //a>
    8. Error. Aspn
     < hi> Invalid UserId/ password </hi>
    <a href = "Login aspr"> +my again </a>
  * Membership: It is the process of providing authorization and
    authentication to a website without manually approaching
(\tilde{\phantom{a}})
    towards a database. Asp. net provides several login
    controls for this authenti membership. They are-
\bigcirc
             - Change password
             - create User Wisaud
               Login
             - Login Name
            - Login Status
              Login View
               password Rewvery
```

		$\supset$
Ex: 1. Goto file new project. Select Visua	1 C#, Web	)
Visual Studio 2012.		).
2 Select the template Aspinet webforms	Application (	Č
3 Add following folder to website.		) ). ).
- public		ノ ` `
- Secured		
4-Add following files to public folder		) )
- Home -aspx		)
- Login. aspx		)
- Register as pn	. "	
- Change-Password-aspn		)
- Forgot Password aspn		) =
- signout aspx.		
5. Add following pages to secured folder		) )
- Welcomeraspox		$\left( \cdot \right)$
Tutorial. aspx		)
6 Home our Davigas		) -
6 Home, aspx (Design)	* ;	) ¬
La breet.		' )
new User <u>Register</u>	•	
Existing User Login		) \
7 House and Parties Clima David		 )
7. Home. aspr. Register, asp > Design _Add create	user wigard cri	) ]
[ereate]   cot tollowing		0
User		$\bigcirc$
	(	$\bigcirc$

#### (overa)

 $\bigcirc$ 

( ·

( :

 $(\hat{\ })$ 

0

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

0

- 1. Continue Destination page Urt = Login. aspx.
- 2. Finish Destination Page Unt = Success. aspx
- 3. Create User Button Text = Register.
- 8. Login aspx (Design)
  - Add Login Utr
  - Set Properties;
- + Destination Page Un = ~/ Secured/ Welcome. as pre
- 2 : Password Recovery Text = forgot password.
- 3. Password Recovery Url = forgot password aspn
- ( 9. Change Password aspx (Design)
  - Add Change Password Hot
  - Set properties:
  - 1. Success Page Ort = Login, aspr
  - Lar forgot password aspx (Design)
    - Add fast forgot Pausword Chri
    - Le success page Vr = Login. aspn
- Oll. Signout. aspr (Design)
  - Signed out successfully -
    - <a href = "login, aspx"> Login </a>
- 12. Welcome. aspre Design

[Usex Warne] login View 1	Change password	Logant.
prease <u>Register</u> to	access Tutorial	

# - Lutote rigal - Select "Logged . In " - Action "Pedirect" URL = Signowt. aspx Longin View - Two templates. Etor Casp: Loginview & ID = "Loginview1". runat = "Server < Anonymous Template > <h1> please Ca horef z".../public / Register. aspor"> Register </a> to access tutorial </h1> /Anonymous Tempolates Lasp. LoginView. < Logged In Template > < h1 > Goto to Tutorial Za href z "Tutorial. aspx ">0 Click Here </a> </hi> < </asp: LoginView > 1. Offline Storage

2. Cross Platform

 $\bigcirc$ 

()

 $\bigcirc$ 

 $\bigcirc$ 

()

()

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

()

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

 $\bigcirc$ 

:0

XML is used in applications to achieve

- 1) Offline storage
- 2) Cross Platform

It can store the data offline so that the data can be acc-

-essed without the communication with database server

and it is crossed platform, which is under standable to multiple browsers and clients

XMI documents are classified into two types -

1) General XML Document: which contains only Data

EX: Employee. XM

2) Structured XML Dogument: Which contains both Data and structure

Ex: Dataset. xsd.

# Serialization:

The process of writing data into XML is known as Secialization. It can be achieved by wing the method writeXML().

Ex: 1. Create a new wiebform Home.aspx".

Home. aspx (Design)

Button Data Grad Views

3. Button- Click (wde)

Sal Connection con = new Sal Connection ("Data Source = "; initial Catto g = AspDb; Integrated Security = SSPI; Userid = 50; paisword = 123").

con. Open(); Sql Command and = new [sql Command ( select \* from Holproducts", con); Sql Data Adapter da = new Sql Data Adapter (and); Dataset ds = new Dataset (); da. fill (ds), "ProdTable"); ds. writexml (@ "D:\producti.xml"); GridView 1. Datasource z ds. Tables [0]; GridViews Data Bind(); De secilalization: It is a process of reading data from an XMI file. C# provides several classes for deservalization like - XDocument - X Element - Read XML () Ex. 1. Add a new XML file into your website by name "Employeexent "Employees:xm1". { XML with Ling]} < Employees> < Employee> < EmployeeID > 101 </ EmployeeID> < Name > John </ Name> < Salary > 45000 </ Salary > </Employee> </Employees> 2. Add a new web form "Emp. espx",

()	3. Emp. aspz (Design,
O O	EmployeetD [Details] Name []
0	Salary
$\bigcirc$	4. Details_Button (code)
C,	11 Import Namespaces
	uring System XMI. Ling;
O C	1. Details Button Click code
C C	X Element xelement = X Element. Load (@ "E:\: \Employee.XML")
(	I Enumerable < X Element > employees = x element, Elements ();
í (	int id = int. Parse (Text-Box 1. Text);
	Var res = from emp in employees
( `·	where Convert. To Int 16 (emp. Element ("EmployeeID").
Q <sup>°</sup>	Value j == id
$\bigcirc$	select emp;
C	foreach (vou item in re)
С. С	TextBox2. Text = item· Element ("Name"). Value;
	TextBox3. Text = item. Element (" Salary"). Value;
C	3
$\bigcirc$	