

What is ASP?

- Active Server Pages(ASP), also known as Classic ASP, is a Microsoft's server side technology, which helps in creating dynamic and user friendly Web pages.
- It uses different scripting languages to create dynamic Web pages, which can be run on any type of browser.

<http://questionsdoor.com/aspnet-interview-questions/>

What is the difference between Classic ASP and ASP.Net?

- **ASP** is Interpreted language based on scripting languages like Jscript or VBScript.
- ASP has Mixed HTML and coding logic.
- Limited development and debugging tools available.
- Limited OOPS support.
- Limited session and application state management.**ASP.Net** is supported by compiler and has compiled language support.
- Separate code and design logic possible.
- Variety of compilers and tools available including the Visual studio.Net.
- Completely Object Oriented.
- Complete session and application state management.
- Full XML Support for easy data exchange.

What is ASP.NET?

- ASP.NET is a server side scripting technology that enables scripts (embedded in web pages) to be executed by an Internet server.
- ASP.NET is a specification developed by Microsoft to create dynamic Web applications, Web sites and Web services.
- It is a part of .NET Framework.
- The ASP.NET compiles the Web Pages and provides much better performance than scripting languages, such as VBScript.
- The Web Forms support to create powerful forms based Web pages.
- ASP.NET Web server controls to create interactive Web applications with the help of Web server controls, you can easily create a Web application.

What is a Cookie?

- Cookie is a lightweight executable program, which the server posts to client machines.
- Cookies store the identity of a user at the first visit of the Web site and validate them later of the next visits for their authenticity.
- The values of a cookie can be transferred between the user's request and the server's response.

Difference between ASP Session State and ASP.Net Session State?

- ASP session state relies on cookies, Serialize all requests from a client, does not survive process shutdown, Can not maintained across machines in a Web farm.

What is the difference between ASP Session and ASP.NET Session?

- Asp.net session supports cookie less session & it can span across multiple servers.

What are the major built in objects in Asp.net?

- The major built in objects in Asp.net are as follows:
- Application
- Request
- Response
- Server
- Session
- Context
- Trace

Difference between `Server.Transfer` and `Response.Redirect`?

- The `Server.Transfer ()` method stops the current page from executing, and runs the content on the specified page, when the execution is complete the control is passed back to the calling page. While the `Response.Redirect ()` method transfers the control on the specified page and the control is never passed back to calling page after execution.

What is aPostBack?

- The process in which a Web page sends data back to the same page on the server.

What is AutoPostBack?

- If you want a control to postback automatically when an event is raised, you need to set the AutoPostBack property of the control to True.

What is a round trip?

- The trip of a Web page from the client to the server and then back to the client is known as a round trip.

What are the types of Cookies in Asp.net?

- There are two types of Cookies available in Asp.net :
- Session Cookie
- Persistent Cookie

Difference between Session cookie and Persistent cookie?

- **Session Cookie :**
- Resides on the client machine for a single session until the user does not log out.
- **Persistent Cookie :**
- Resides on a user's machine for a period specified for its expiry, such as 10 days, one month and never. The user can set this period manually.

Which is the parent class of the Web server control?

- The **System.Web.UI.Control** class is the parent class for all Web server controls.

Which Asp.net objects encapsulate the state of the client and the browser?

- **The Session object encapsulates the state of the client and browser.**

What is the difference between Custom Control and User Control?

- **Custom Controls** are compiled code (Dlls), easier to use, difficult to create, and can be placed in toolbox. Drag and Drop controls. Attributes can be set visually at design time. Can be used by Multiple Applications (If Shared Dlls), Even if Private can copy to bin directory of web application add reference and use. Normally designed to provide common functionality independent of consuming Application.
User Controls are similar to those of ASP include files, easy to create, can not be placed in the toolbox and dragged - dropped from it. A User Control is shared among the single application files.

How can you identify that the page isPostBack?

- The Page object uses the IsPostBack property to check whether the page is posted back or not. If the page is postback, this property is set to true.

What is ViewState?

- **ViewState** is a .Net mechanism to store the posted data among post backs. ViewState allows the state of objects to be stored in a hidden field on the page, saved on client side and transported back to server whenever required.

What is Authentication and Authorization?

- **Authentication** is the process of identifying users. Authentication is identifying/validating the user against the credentials (username and password) and Authorization performs after authentication.
Authorization is the process of granting access to those users based on identity. Authorization allowing access of specific resource to user.

What are the types of Authentication?

- There are 3 types of Authentication. Windows, Forms and Passport Authentication.
- **Windows authentication** uses the security features integrated into the Windows NT and Windows XP operating systems to authenticate and authorize Web application users.
- **Forms authentication** allows you to create your own list/database of users and validate the identity of those users when they visit your Web site.
- **Passport authentication** uses the Microsoft centralized authentication provider to identify users. Passport provides a way for users to use a single identity across multiple Web applications. To use Passport authentication in your Web application, you must install the Passport SDK.

What are the different ways to send data across pages in Asp.net?

- The following two ways are used to send data across pages in Asp.net:
- Session
- Public properties

Where is the Viewstate information stored?

- The Viewstate information is stored in the HTML hidden fields.

What are different types of directives in .NET?

- @Page
- @Control
- @Import
- @Implements
- @Register
- @Assembly
- @OutputCache
- @Reference

What is the default timeout for a cookie?

- The default time duration for a cookie is 30 minutes.

What is the difference between HTML and Web server controls?

- HTML controls are client side controls therefore, all the validations for HTML controls are performed at the client side. On the other hand, Web server controls are server side controls; therefore, all the validations for Web server controls are performed at the server side.

What is the difference between Server-side scripting and Client-side scripting?

- **Server** side scripting means that all the script will be executed by the server and interpreted as needed. ASP doesn't have some of the functionality like sockets, uploading, etc.
- Client** side scripting means that the script will be executed immediately in the browser such as form field validation, clock, email validation, etc. Client side scripting is usually done in VBScript or JavaScript.

How do you create a permanent cookie?

- Permanent cookies are available until a specified expiration date, and are stored on the hard disk. So Set the 'Expires' property any value greater than `DateTime.MinValue` with respect to the current datetime. If u want the cookie which never expires set its Expires property equal to `DateTime.MaxValue`.

Which method do you use to redirect the user to another page without performing a round trip to the client?

- `Server.Transfer`
- `Server.Execute.`

Which method do you use to redirect the user to another page without performing a round trip to the client?

➤ `Server.transfer`

What tag do you use to add a hyperlink column to the DataGrid?

- `< asp:HyperLinkColumn >`
- `< / asp:HyperLinkColumn >`

How many languages .NET is supporting now?

- When .NET was introduced it came with several languages. VB.NET, C#, COBOL and Perl, etc. The site DotNetLanguages.Net says 44 languages are supported.

What is smart navigation?

- The cursor position is maintained when the page gets refreshed due to the server side validation and the page gets refreshed.

How do you validate the controls in an ASP .NET page?

- Using special validation controls that are meant for this. We have Range Validator, Email Validator

How do you turn off cookies for one page in your site?

- Use `Cookie.Discard` property, Gets or sets the discard flag set by the server. When true, this property instructs the client application not to save the Cookie on the user's hard disk when a session ends.

Which two properties are on every validation control?

- We have two common properties for every validation controls:
- Control to Validate
- Error Message

What are the event handlers that can be included in the Global.asax file?

- The Global.asax file contains some of the following important event handlers:
- Application_Error
- Application_Start
- Application_End
- Session_Start
- Session_End

What Asp.net objects encapsulate the state of the client and the browser?

➤ **The Session Object.**

Which class is inherited when an Asp.net server control is added to a Web form?

- The **System.Web.UI.Webcontrols** class is inherited when an Asp.net server controls is added to a web form.

What are the types of validation controls in Asp.net?

- There are six types of validation controls in Asp.net:
- Compare Validator
- Custom Validator
- Range Validator
- Regular Expression Validator
- RequiredField Validator
- Validation Summary

How can you display all validation messages in one control?

- The ValidationSummary control displays all validation messages in one control.

In which event are the controls fully loaded?

- Page_load event guarantees that all controls are fully loaded. Controls are also accessed.

In Page_Init events but you will see that viewstate is not fully loaded during this event.

What is the use of @ Register directives?

- @Register directive informs the compiler of any custom server control added to the page.

Define RequiredFieldValidator?

- It checks whether the control have any value. It's used when you want the control should not be empty.

Different types of Session state management options available with ASP.NET?

- ASP.NET provides In-Process and Out-of-Process state management. In-Process stores the session in memory on the web server. Out-of-Process Session state management stores data in an external data source. The external data source may be either a SQL Server or a State Server service. Out-of-Process state management requires that all objects stored in session are serializable.

How can you display all validation messages in one control?

- The ValidationSummary control displays all validation messages in one control.

Difference between a Label control and a Literal control?

- The Label control's final html code has an HTML tag; whereas the Literal control's final html code contains only text, which is not surrounded by any HTML tag.

What is the difference between ASP Session and ASP.NET Session?

- Asp.net session supports cookie less session & it can span across multiple servers.

What is the function of Custom Validator?

- It uses the customized validation code to perform client side validation and server side validation.

What data type does the RangeValidator control support?

- Integer
- String.
- Date.
- Double
- Currency

What is Role based security?

- A role is a named set of principals that have the same privileges with respect to security (such as a teller or a manager). A principal can be a member of one or more roles. Therefore, applications can use role membership to determine whether a principal is authorized to perform a requested action.

What are the types of ASP Objects?

- There are various types of Asp objects are :
- Session Object
- Application Object
- Server Object
- Request Object
- Request Object
- Response Object
- Object Context
- Error Object

What base class do all Web Forms inherit from?

- `System.web.UI.Page` class

How to Manage State in ASP.Net?

- There are several ways to manage a state.
- ViewState
- QueryString
- Cookies
- Session
- Application

What is a Literal Control?

- The Literal control is used to display text on a page. The text is programmable. This control does not let you apply styles to its content.

Which namespaces are used for data access?

- System.Data
- System.Data.OleDb
- System.Data.SqlClient

What is Remoting?

- Remoting is a means by which one operating system process, or program, can communicate with another process. The two processes can exist on the same computer or on two computers connected by a LAN or the Internet.

What's the use of “GLOBAL.ASAX” file?

- It allows to executing ASP.NET application level events and setting application-level variables.

What is a SESSION and APPLICATION object?

- Session object store information between HTTP requests for a particular user. Session variables are used to store user specific information where as in application variables we can't store user specific information. while application object are global across users.