



Top 20 ASP DOT NET Interview Questions and Answers

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A fast and secure web framework for developing web applications and services is called ASP.NET. The need for .net developers in the job market is great. For both freshers and experienced experts, there are **ASP.NET interview questions and answers** in this article.

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ASP.NET Interview Questions and Answers for Freshers

1. What is ASP.NET?

One component of the .NET framework called the ASP.NET Framework is used to build dynamic

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websites, web applications, and web services. All .NET compatible languages, including **C#**, VB.NET, J#, and others, that are compiled to Microsoft Intermediate Language (MSIL), are used by this server-side technology. ASP.NET leverages server control to create interactive applications quickly and with ease.

2. What are the features of ASP.NET?

- The website is built with the C# and VB.NET programming languages.
- It enables us to keep server-side code and HTML layout separate.
- It enables us to qualify a class name under a different namespace using the same name.
- ASP.NET pages are not interpreted; they are compiled.
- One engine for processing requests is ASP.NET. An incoming request is received and sent via its internal pipeline to an endpoint, to which a developer can append code to handle the request.

3. What does round-trip mean?

A round trip is when a Web page travels from the client to the server and back to the client. Within ASP.NET Reaction. A round trip is caused by `redirect()`.

In simpler terms, each web page that moves from the client to the server will be processed there and returned to the client; this entire procedure is known as a round trip.

4. How will you define a connection string in the web.config file?

The way to define a connection string in web.config file for SQL server database is:

```
<connectionStrings>  
  
<add name="strcon" connectionString="Data Source=DonetApp;
```

Answers

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```
Initial Catalog=dotnetDB; Persist Security Info=True; User
ID=asif@123; Password=123@asif"
providerName="System.Data.SqlClient"/>

</connectionStrings>
```

VB.Net Interview Questions and Answers A wide range of applications, including desktop, web, and mobile...

5. What do ASP.NET server controls mean?

When an ASP.NET page is requested, certain objects on the page operate as ASP.NET server controls. The HTML controls are identical to many server controls, including text boxes and buttons. There are numerous controls, including ones with advanced behavior, such as those for connecting to data sources and displaying data, in addition to the HTML controls.

6. What distinguishes a link button from a hyperlink?

The Click and Command events are absent from Hyperlink control, but they are present in LinkButton control and can be managed within the Web page's code-behind file.

7. What are navigation controls?

We can more easily navigate a Web application with the use of navigation controls. These controls make it easier to navigate a Web application by storing all of the links in a drop-down or hierarchical structure.

8. In ASP.NET, how many navigation controls are there?

In ASP.NET, there are three navigation controls:

- SiteMapPath
- Menu
- TreeView

9. What distinguishes server-side validations from client-side validations?

Client-side validations are implemented on the client side using scripting languages like VBScript, jQuery, and JavaScript.

On the other hand, server-side validations use programming languages such as C#, VB, F#, etc. to operate at the server end. When you send or submit data to the server, server validations take effect.

10. What is a Resource File in ASP.NET?

ASP.NET provides resource files for internationalization and localization. The resource file has the extension resx and is an XML file. The resx file contains resources organized as key-value pairs for each resource.

Make a separate resource file for each culture that your program has to serve. For instance, the resource files WebResources.en.resx and WebResources.hi.resx are for the English and Hindi languages, respectively.

11. What distinguishes global resources from local resources?

Resource files come in two varieties, which are shown below:

Local Resources: These are URL-specific resources that are utilized to provide multilingual variants of a single webpage. The App_LocalResources folder contains these.

Global Resources: These are shared resources that are available to all web pages within the whole web application. The App_GlobalResources folder contains them.

12. What are neutral culture, culture, and language?

- A culture that is linked to a language but not to a nation or area is known as neutral culture. "en" for English and "in" for Hindi, for example.
- The language and the nation or region make up culture. A culture code, such as en-US for English in the US or en-GB for the UK, etc., is used to express it. It consists of two lowercase

letters to identify the language and two uppercase letters to denote the country or region.

- Any spoken language, such as Hindi (hi), German (de), or English (en), is referred to as a language.

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ASP.NET Interview Questions and Answers for Experienced Professionals

13. What various ASP.NET session state modes are there?

The various session state modes that can be described in a web.config file are as follows.

Off: Indicate that there is no session state enabled.

InProc: This is the session's default mode. In this mode, the web server, or IIS, hosting the application, stores the session state.

OutProc: The following methods can be used to manage the OutProc mode:

- **State Server:** In this configuration, an independent process known as the ASP.NET state service houses the session. This guarantees that when the web application is relaunched, the session state will be accessible.

In a web farm, this also allows several web servers to share the session state.

- **SQL Server:** A SQL Server database contains the session's data in this mode. Additionally, it guarantees that the session state will be accessible when restarting the web application.

In a web farm, this also allows several web servers to share the session state.

14. When can you opt for classic ASP.NET over ASP.NET Core?

If you plan to preserve a legacy ASP.NET application that is no longer actively maintained, you may not necessarily need to migrate to ASP.NET Core, even if it is a better option in almost every aspect. Selecting ASP.NET is preferable over ASP.NET Core if you:

- Need a reliable setting in which to operate
- we don't need cross-platform compatibility for your web application.
- Possess more precise release dates
- We have previously kept up with developing already-existing software and enhancing its features
- Currently leads a team with ASP.NET expertise

15. What does the ASP.NET MVC pattern entail?

- An architectural pattern known as Model-View-Controller (MVC) divides an application into three main logical components. These elements go by the names of the controller, view, and model.
- There is no connection between this design and the layered pattern. The MVC pattern mostly operates on the software side.
- Each component in an application that follows the MVC pattern has a specific role assigned to it. They do not handle HTTP requests.

16. What is the package manager for NuGet?

A package manager devoted to the .NET ecosystem is called NuGet. Fundamentally, Microsoft developed it to give customers access to hundreds of packages made by **.NET developers**. It can also be used to distribute code that you have already written to other people.

For ASP.NET to be used in the development of a traditional web application, multiple open-source NuGet packages are required. Newtonsoft.Json is

one of the well-known NuGet package managers. In.NET, it is utilized to work with JSON data.

17. What is a Kestrel?

Kestrel is a cross-platform, open-source web server specifically made for ASP.NET Core. It comes integrated and enabled out of the box with ASP.NET Core. It can also be used to process requests directly from a network as a web server.

Based on "libuv," a cross-platform asynchronous I/O library that is incredibly fast, Kestrel is a cross-platform web server designed for ASP.NET Core.

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18. What validators are available in ASP.NET?

RequiredFieldValidator: When you don't want the container to remain empty, you use this validator. It investigates whether or not the control is valuable.

RangeValidator: Determines if the validated control's value fits inside the designated range or not.

CompareValidator: It determines whether or not the value in the controls matches a set of predetermined values.

RegularExpressionValidator: Determines whether a given value matches or does not match an explicit regular expression.

Custom Validator: A useful tool for defining user-defined validation is CustomValidator.

Summary Validation: This provides an overview of all validation errors that have been found on an ASP.NET page.

19. What are the components of the web form in ASP.NET?

The following is an outline of the ASP.NET webform components:

Server controls are elements in Hypertext Markup Language (**HTML**) with the `runat=server` attribute attached to them.

These parts offer server-side events and automatic state management. They also create an event handler on the server to respond to user events.

HTML controls: They handle events on the client machine, but they also react to associated user events.

Data controls: Data controls allow commands to be executed, databases to be accessed, and connections to be made.

System components: They provide access to events occurring on the server that are at the system level.

20. Describe the ASP.NET page lifecycle.

The series of events that take place in an ASP.NET web page from creation to rendering is known as the ASP.NET page lifecycle. The procedure consists of several steps, which are as follows:

Initialization: At this point, controls are initialized and their properties are set.

Loading: In this stage, control events are handled and their restored ViewState data is processed.

PostBack event handling: At this point, the postback events are taken care of.

Rendering: After the page is created, it is sent to the client at this point.

Unloading: At last, the page releases all of its resources and becomes unloaded.

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