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rounds of the hiring process. The questions include both subjective and objective.

Web Services was explained in detail in our earlier tutorial. We will focus on some of the most commonly asked Web API interview questions in this tutorial. These ASP.Net And Web API Interview questions are in trend and are being asked during the technical

The level of difficulty is mixed and is appropriate for both beginners as well as experienced professionals. => Check Out The Free API Testing Guide Here

examples for beginners and experienced professionals:

ASP.NETWeb API **Interview Questions and Answers** © www.SoftwareTestingHelp.com 35 Best ASP.Net And Web API Interview Questions And Answers Enlisted below are the most popular ASP.Net And Web API Interview Questions that would help you in the interview preparation process.

Let's Explore!! Q #1) What is ASP.Net?

Answer: ASP stands for Active Server Pages. Microsoft came up with a framework (ASP.Net) which was the updated version of legacy ASP. The library files and the ASP engine do not require to be modified while installing the framework.

This facilitated IIS (Internet Information Server) to keep both legacy ASP and ASP.Net scripts on the same system. IIS is nothing but the server provided by Microsoft that is used to provide Internet-based

Answer: Suppose you are visiting Google quite often and when you open a new tab on your browser

This means that google.com has been cached on your machine and it will be opened in much less time

compared to the other websites that were not accessed in recent times. This is an example of Caching.

services to any ASP.Net or web applications. Any web page script is executed by IIS. Q #2) What do you mean by Caching in ASP.Net?

(say Chrome), this web page will be there in the "most frequently used" section.

Thus, Caching is a mechanism that keeps the frequently accessed files in the cache memory and

accesses them from the cache itself rather than the actual address of the files or data. Q #3) What are the Types of Caching? **Answer:** 

There are three different types of caching as shown below: Page Caching

 Data Caching Fragment Caching

on a Page is known as the Page Life Cycle.

Answer: During the execution of any ASP. Net page, the page undergoes a list of events (right before it's inception (initialization) till the end (rendering)). The occurrence of these events in chronological order

Q #4) What is a Page Life Cycle? What are the events in a Page Life Cycle?

Below is the list of all the events that occur during a Page Life Cycle.

UnLoad

On Save

Load

Render Init Method

Complete Complete OnPre OnPre Render Load

Preinit

Init

Complete Load Post Back Q #5) What is ViewState? In which event of the page life cycle, is the ViewState available? Answer: ViewState is a state management technique that allows storing user input data on a page at the PostBack event of a web page. ViewState is available after Init and before PageLoad event of the page life cycle. Q #6) What is the Life-Span of the items in the ViewState? **Answer:** The life span of the items in the ViewState depends on the life of the current page. They exist as long as the current page exists. Q #7) What is the Parent Class of all the Web Server control? **Answer:** The parent class of all Web Server control is "System.Web.UI.Control". Q #8) How do you store a value in ViewState and Retrieve them?

Following is the example of how we store the value in ViewState and retrieve it.

**Answer:** As we know, ViewState stores the value of the page and the user inputs on a Page.

**Answer:** Page class is the base class for all the WebForms. Q #10) Write a code for Sending an email from ASP.Net Application. Answer: Writing a code snippet is very common in both ASP.net as well as Selenium Interviews. For

Below are the explanation and the code for sending an email from the ASP.Net application.

ViewState["emp"]="Saket Saurav"; // Store the value in ViewState

Q #9) What is the Base Class from which Web Forms are inherited?

string value=ViewState["emp"].ToString(); //Retrieve information

Selenium, we have already discussed how to send an email.

**Explanation** 

**Answer:** 

Protocol through the localhost server.

inside an ASP.Net Web Page.

from the Inline Code.

It starts with <%@ and ends with %>.

<%@[DirectiveType][Attributes or Options]%>

The syntax is:

**Important Directives:** 

• @Reference

@Register

@OutputCache

@PreviousPageType

user's last login, last activity and so on.

can be configured by the user.

Q #18) Define Web Services in ASP.net.

Q #20) Which object wraps the state or data of a user?

system. This includes validating the login credentials.

Q #23) Which methods validate all the controls on a page?

Q#24) How can you apply a theme to your ASP.Net Application?

the <configuration> tag and apply the theme as shown below.

Q #25) Does Web Services support data reader like POM project?

Q #26) What is a Web API? Which protocol is used in a Web API?

cpages theme = "your theme name"/>

**For example,** login access to facebook.

**Answer:** Page.Validate()

<configuration> <system.web>

</system.web> </configuration>

used in Web API.

testing tools?

algorithms.

com.express.presto.

won't make any sense.

response codes.

Swagger Ul

swagger

Api Documentation

Apache 2.0

[image source]

supports.

swagger

Documentation automatically generated

See more at piotrminkowski.wordpress.com

person-controller: Person Controller

[ BASE URL: / , API VERSION: 1.0-SNAPSHOT ]

Swagger Sample App

Created by Piotr Mińkowski

Contact the developer

GET /person

POST /person

DELETE /person/{id}

[image source]

Contact the developer

Apache 2.0

Api Documentation

[ BASE URL: / , API VERSION: 1.0 ]

← → C D localhost:8080/swagger-ui.html

product-controller : Product Controller

Q #32) Explain Swagger Components.

Swagger URL ends with the /swagger-ui.html.

https://www.presto.com/com.express.presto/test

operation and 201 for the successful creation of a record.

like

in the session state mode.

it is done by the browser.

**Answer:** Session Object.

Q #21) What is a Session Object?

Important Session State Modes

**Code With Comments** 

In the below program, we are creating an object for MailMessage. Thereafter, we are specifying the sender and recipient email addresses. Then, we are specifying the subject line as Software Testing.

mail.Subject = "Software Testing"; //specifying the subject 6 mail.Body = "Hi, Sending an email"; //drafting the body of the email SmtpMail.SmtpServer = "localhost"; //sending through the localhost server SmtpMail.Send (mail); //passing the attribute "mail" in the Smtp.Send()

Answer: web.config is the file through which we can customize our application in ASP.Net such as

• Code Behind has an extension .aspx.cs or .aspx.vb whereas Code Inline (as it is inside ASP.Net)

• Code for all the web pages is compiled into a .dll file (Data Link Library File) which is kept free

has an extension .aspx only. Code Inline is written inside <script> tag along with the HTML.

MailMessage mail = new MailMessage (); //creating an obj for MailMessage

mail.From = "xyz@xyz.com"; //specifying the sender mail id mail.To = "abc@abc.com"; //specifying the recipient mail id

Q #11) What is the file through which you can customize your ASP.Net Application?

of the address or URL. This is often separated by a question mark (?).

Q #13) What are the Differences between Code Behind and Code Inline?

The syntax of the query string is **Request.QueryString(variable)[(index).count]** 

applying new themes, resizing images or cropping images. Q #12) What is Query String in ASP.Net? **Answer:** Query String is a String (collection of characters) that is passed on any web browser as a part

Q #14) What are Directives in ASP.Net? List down all the Important Directives. **Answer:** Directives are the instructions that are used to describe how .aspx pages will be processed by the framework. Different directives come with different options or attributes and easily provide class names, their descriptions or the files' names of the code-behind class for any specific page.

@Page @Assembly • @Control @Master @MasterType • @Implements @Import

Q #15) What are SQL Notifications and SQL Invalidations? **Answer:** SQL notifications are the notifications that trigger when there is any change in the data which is copied in the cache. SQL invalidation is something (you can call it a parser) that invalidates promptly when it finds any change in the data that is in the database against the copied data in the cache.

Q #16) What are Session State Modes? List some of the important Session State Modes of ASP.net.

**Answer:** Session state is something in which the session object stores information about any particular

user logged into the system. This session information can be the user id or password, details about the

This session state comes up with different storage options. Again, each option is handled by the value

• State Server Mode: Stores session state in ASP.Net State Service. Session State does not

• InProc Mode: A default mode in which the session state is stored in memory on the Web Server.

• SQL Server Mode: Session State is stored in SQL Server Database. It is the same as State Server

• Custom Mode: Session state is stored in a custom storage provider. It (Custom Storage Provider)

hamper by the restart of the application in a particular region.

in preserving the session state even though the application restarts.

Q #17) What is the difference between Server. Transfer and Response. Redirect? **Answer:** As we know, both Server.Transfer and Response.Redirect are used to facilitate the users to navigate from one page to the other during page execution. The major difference between them is that in Server. Transfer (as the name suggests), the transfer is done by the server and in Response. Redirect,

Answer: Web Services are the software services that serve from one machine to another using a

**Answer:** Session object is an object that stores information about a user's session. The common

information includes name, id, preferences, any changes in the settings, etc. Session Object is

initialized when a session starts and is destroyed when the session expires.

Q #22) Explain the difference between Authentication and Authorization.

network. These services make use of XML and provide SSL and WSS for data transmission.

• Off Mode: This enables the offline mode. The Session State is disabled in this mode.

Q #19) What is a multilingual website? Answer: Any website which supports multiple languages is called multilingual websites. The content of these websites are in different languages and can be converted into multiple languages. Some popular multilingual websites include Msn, Facebook, etc.

Authentication is the process of providing access to any specific resource in a system. This includes accessing any private data, resource keys, tokens, etc. For example, access rights to view private photos on Facebook. To summarize, only an authenticated person can be authorized to use resources.

**Answer:** There is a configuration file called web.config. Inside the web.config file, you can navigate to

**Answer:** No it does not. However, it supports data set which can be used to pass input data.

**Answer:** Web API can be defined as an interface that facilitates the communication between a client

This will show you the price of multiple airlines and their availability. In this case, the application

Another example is **www.trivago.com** which compares and lists down the price, and availability of

access databases and lists down the prices and availability from their website. HTTP protocols are

Q #27) Which library is used by the testers and developers to develop automated tests and create

Answer: TestAPI is a library (utility) that is used to create automated tests and testing tools using

different hotels from a particular city. This website communicates with the APIs of multiple hotels to

**Answer:** Authorization is the process of confirming whether you are an authorized user to access the

machine and a web server. Let's take a very common scenario of booking a flight on www.makemytrip.com, which is an online travel service that aggregates information from multiple airlines. When you go for a flight booking, you enter information like journey date/ return date, class, etc. and click on search.

interacts with the APIs of multiple airlines and gives access to the airline's data.

Q #28) What parameters can you pass in the URL of the API? Can GET and POST use the same URL? **Answer:** There are a few parameters that you can pass in your URL to define the complete end-point. These are context keys, document keys or anything that facilitate the API to hit the exact endpoint. **For example,** We have to hit the document "test" on Presto with the use of the context key

In such a case, our URL happens to be https://www.presto.com but the complete end-point will look

In this way, we can be sure that the endpoint will hit the test document using a specified context key.

Yes, GET and POST will have to use the same endpoint. If you don't use the same endpoint, then it will

be like you are creating a record in one URL and retrieving something else from the other URL and this

Q #29) If 200 is for all successful operation then why do we have 201 Response Codes?

Answer: This is a tricky question. As we know, all the HTTP response codes in Web API can be

manipulated by the developer and it all depends on the App Dev as how they want to configure the

Thus, you can have 200 or 201 for all successful operations. In general, 200 stands for a successful

Q #30) How can you make sure that Web API returns JSON data only? **Answer:** In the header portion, you have to pass the value "application/json". Q #31) What is a Swagger in Web API?

**Answer:** Swagger is the most common template that is used in the Web API. This template is used to

on the verb (GET or PUT), specify tokens, body or payload (if applicable) and click on "try it out".

Before implementation, every developer will provide you the swagger link on which you can

superficially test the API. If not, the same can be achieved using a tool called POSTMAN.

check the response of an API for different methods that a particular API supports. You just need to click

default (/v2/api-docs) ▼

**Enlisted below are the various components of Swagger:** #1) Name of the documentation: Here API Documentation is the name of the documentation. #2) Name of the API: The product controller is the name of the API which will have an API version and a base URL.

pet: Operations about pets Show/Hide List Operations Expand Operations Raw (it) /pet/{petld} DELETE /pet/{petId} /pet/{petId} ross /pet/{petId} Updates a pet in the store with form data

This is a sample server Petstore server. You can find out more about Swagger at <a href="http://swagger.wordnik.com">http://swagger.wordnik.com</a> or on irc.freenode.net, #swagger. For this sample, you can use the api key "special-key" to test the authorization filters

A SWagger A http://petstore.swagger.wordnik.com/api/api-docs api\_key

 Image/Png or Image/Jpg or Image/Jpeg Text/HTML Application/json or Application/xml Q #34) What is BSON in Web API? **Answer:** BSON stands for Binary Javascript Object Notation. BSON has the objects in the Key-value pair that is faster for encoding and decoding. It is light-weighted like JSON, but it is much faster than JSON. Moreover, BSON is not in a readable format.

Person Service Api Documentation Show/Hide List Operations Expand Operations findAll

Find pet by ID

Deletes a pet

OFF

partial updates to a pet

default (/v2/api-docs) ▼

Parameter Type Data Type Parameter. Description ID of pet that needs to be petId Updated name of the pet nane status Updated status of the pet Response Messages HTTP Status Code Response Model Try it out rost /pet Add a new pet to the store Update an existing per GET /pet/findByStatus Finds Pets by status [image source] #4) Parameters: There are few parameters like id (context key), name (document name), authorization, content-type, etc. that every swagger supports. #5) Submit: After you have entered all the required values, you need to click on the Try it Out button which is the submit button for all swaggers. Q #33) What are the media types of HTTP Requests and Response? **Answer:** Media types are used to specify the formats of the requests, responses, images, and texts. **Media types include:** 

Q #35) Write a code snippet to implement the indentation in JSON in Web API. **Answer:** Below is the code snippet for indentation.

Conclusion

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var json = GlobalConfiguration.Configuration.Formatters.JsonFormatter;

With this, we have come to the end of the tutorial on ASP. Net and Web API Interview Questions.

Thorough knowledge of these ASP.Net and Web API interview questions will help you to crack the

json.SerializerSettings.Formatting = Formatting.Indented;

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Later, we are drafting the body of the email which is then sent with the use of a Simple Mail Transfer • Code Behind is the code written in a separate class file whereas Code Inline is the code written

Explore Show/Hide List Operations Expand Operations **Answer:** As you can see in the above image, there is a URL that ends with /swagger-ui.html. Every #3) List of methods that API supports: GET, PUT, POST, and DELETE are the common methods that API Explore update findByld

☆

interview successfully. We wish you all the best for your ASP.Net and Web API Interview!! **PREV Tutorial | NEXT Tutorial Recommended Reading** Top 20 Most Important API Testing Interview Questions and Answers

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