

# asp.net interview questions & answers

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# 1. difference between html and asp.net controls?

html controls are light weight and asp.net controls are heavy weight. during rendering time all asp.net controls must be converted to html

## 2. what are the page life cycle methods executed ?

- ❖ page\_preinit
- ❖ page\_init
- ❖ loadviewstate
- ❖ page\_load
- ❖ click event methods
- ❖ page\_prerender
- ❖ saveviewstate
- ❖ render
- ❖ unload

### 3. explain page life cycle methods?

**page\_preinit** :→ this method can be used for changing master pages dynamically.

**page\_init** :→ in this method all controls id properties will be initialised.

**loadviewstate** :→ in this method data will be copied from hidden field to viewstate

**page\_load** :→ in this method all control properties will be initialised except id properties

**click event methods** :→ these methods will be executed when the user performs post back operation.

**page\_prerender** :→ this method will be treated as last chance for modifying data present in httpresponse object.

**saveviewstate** :→ in this method data will be copied from view state to hidden field control.

**render** :→ render method converts all control objects into html and the same will be added to httpresponse object. Render method also returns httpresponse object to browser.

**unload** :→ unload deletes all objects from the server.

#### 4. what are the differences between http get and http post methods?

- httpget method is usually used for sending first request and httppost method will be usually used for sending post back request.
- httpget can carry less data and post can carry more data.

5. what are the different ways used to redirect users from one page to other?

hyper link ( action link )

`response.redirect`

`server.transfer`

`server.execute`

6. what is the diff between `response.redirect(string url)` and `response.redirect(string url,bool endresponse)`?

`r.r(url)` will immediately terminate the the current page execution and new url will be returned back to browser.

`r.r(url,false)` will not immediately terminate the execution of the current page. after execution of current page completely new url will be sent back to browser.

## 7. What are the diff between response.redirect and server.transfer?

Response.redirect	Server.Transfer
The destination page will be called by the browser.	The destination page will be called by server.
Extra round trip is required	No extra round trip is required
Little slow	Little faster

## 8. what are the diff between server.transfer and server.execute?

after executing server.transfer the current page execution will be **stopped** and the execution will go to the destination page.

after executing the server.execute the current page execution will be **paused** , the execution will go to destination page. after execution of the destination page execution will come back to the current page.



9. what are the diff between response.write and response.output.write?

r.w will not support data formatting and the r.o.w will support data formatting.

10. what are the different types of validation controls available in asp.net?

- required field validator
- range validator
- compare validator
- regular expresssion validator
- custom validator

11. is it possible to disable server side validation while using validation controls?

- no

12. is it possible to disable client validation while using validation controls?

- yes ( by using `enableclientscript=false` )

## 13. why to use state management ?

webserver can't remember any data related to previous operation hence we need to use state management techniques to remember the required data for later use.

## 14. what are the different state management techniques available in asp.net?

### 1) client side state management techniques

- A. query string
- B. cookies
- C. hidden field controls
- D. viewstate

### 2) server side state management techniques

- A. session state
- B. application state

## 15. explain query string?

querystring is a client side state management technique. querystring will store the data in the url . it is recommended to not store any sensitive information in client.

## 16. How many key value pairs we can store in a query string?

no limit

## 17. what is a cookie?

cookie is a client side state management technique. cookie will usually store user specific data.

## 18. what are the different types of cookies and explain the differences ?

1. temporary cookie ( will not be having expiration time. it will be deleted when user close the browser )
2. permanent cookie ( will have expiration time. it will be deleted when the expiration time is completed )

## 19. explain the cookies internal working mechanism?

cookie will be usually created in the server and will be sent to browser. browser will send the cookie back to server with each request and the server will resend the cookie back with each response.

## 20. what happens when the browser disables cookies?

when cookie are disabled the browser will not store the incoming cookies coming from server hence the website using cookies may not work properly in the browser.

## 21. what is session ?

session is a server side state management.

session is used for storing user specific data.

for every user one unique session will be created.



## 22. what are the different types of sessions available in asp.net ?

### in proc session

- in case of inproc session session will be created in web server memory.

### out proc session

- in case of out proc session the session memory will be created out side of the web server

## 23. Explain how sessions work?

- when a session is created its session id will be stored into a cookie.
- the automatically generated cookie will be sent back to browser.
- when a request is sent from browser to web server it will carry the session cookie.
- by using session id present in cookie webserver will understand the users session.

## 24. what is cookie less session?

cookie less session will store its session id in the url. Hence it will be visible to users in the browser.

## 25. what is the default session time out in asp.net ?

20 minutes.

## 26. what is application memory?

application memory is used for store data which is common for all users. There is no time out for application memory or data present in application memory will be deleted only when we stop the webserver.

## 27. what is the difference between session memory & application memory?

Session	Application
Session memory is user specific	Application memory is common for all users
Session will have timeout	Application memory will not have time out

## 28. How to delete a session forcibly?

using `Session.Abandon();`

29. How many global.asax files allowed per website?

- only one

30. what are the application life cycle methods and explain about each?

- **application\_start** → this method will be executed during application start
- **session\_start** → this method will be executed when a new session is created
- **session\_end** → this method will be created when the session is deleted from web server memory.
- **application\_end** → this method will be executed during application shut down ( when we stop webserver )

### 31.How to handle errors in asp.net?

- using page\_error method or application\_error or by using configuration settings.

### 32.what is 404 error means?

- 404 error will be received when the browser requests for a resource which is not available in the server.

### 33.what is an user control?

an user control is a composite control. it is used for eliminating the **UI** duplication and **functionality** duplication across multiple pages.

### 34.how to load user control dynamically?

using LoadControl method.

## 35.what are the http status codes?

Http status code	description
100 series	Informational response
200 series	Success response
300 series	redirects
400 series	Client errors
500 series	Server errors

## 36.what is the purpose of a configuration file?

- configuration files are used for changing application behaviour dynamically without recompiling the application.

37.How many machine.config files are allowed per computer?

- 1 or more

38.How many web.config files are allowed per website?

- 1 or more ( for each folder 1 web.config file is supported )

39.what is an event?

- events are used for implementing notification mechanism. Events are normally used in GUI Programming.



## 40. what is a master page?

- master pages are used for implementing consistent look and feel for a web site.

## 41. what is caching?

- caching is used for caching the output of a web complete web page or a partial web page or the out put of a variable.
- caching technique will improve the performance of a web page.

## 42. what are the different types of caching techniques available in asp.net?

- output caching → in case of output caching the entire output of a webpage will be cached.
- fragment caching → in case of fragment caching only a portion of web page output will be cached.
- data caching → in this technique a variable's output will be cached.

## 43.what are the different techniques we use in asp.net to improve application performance?

- avoid using view state for storing data specially in the heavy weight controls.
- use caching technique where ever required.
- use minified css & javascript files .
- use the cdn for the css and js files.
- use less number of image.

#### 44. what is authentication ?

authentication is the process of identifying whether the user is a valid user or not.

#### 45. what is authorization?

- identifying whether an user is allowed to access a specific resource or not can be called as authorization.

#### 46. types of authentication?

- forms authentication
- windows authentication
- passport authentication

- Forms authentication → forms authentication is usually used in internet based web applications. usually a login page is required for receiving users data. we must check the users data against the data base.
- Windows Authentication → windows authentication is usually used for implementing **intranet based** web applications.